If somebody would give me about two dozen very old elm trees and about fifty acres of wooded ground and lawn — not too near anywhere and not too far from anywhere — I think I could set up a College that would put all the big universities in the shade.

Stephen Leacock
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IMPORTANT NOTES

1. Student Responsibility
   Students are responsible for making themselves familiar with the information in this Calendar, particularly the section of the Calendar dealing with Academic Regulations. Counselors in the Student Services Office would be pleased to assist students in interpreting these regulations, in explaining their application in particular cases, and where appropriate, in assisting students who encounter special difficulties to respect special consideration with respect to the regulations.

2. Curriculum Changes
   The courses in this Calendar and their descriptions are accurate at the time of printing. However, the College reserves the right to withdraw courses or to amend their descriptions; in such cases the College will make every effort to provide equivalent alternative instruction, but the provision of such instruction cannot be guaranteed.

3. Enrolment Limits
   Scarborough College reserves the right to limit the number of registrants in any course in circumstances where the number of qualified applicants for a course exceeds the teaching or other resources available.

4. Course Selection and Registration
   Key to the Course Descriptions
   Students are urged to read carefully pages 27 to 30 of this Calendar before reading the course descriptions. These pages contain important information about: the designation and numbering of courses; prerequisites, corequisites and exclusions; and about supervised reading, supervised research and independent study courses.

   Prerequisites and Corequisites
   Prerequisites and corequisites may be waived only with the specific permission of the instructor. Students who register in courses without their prerequisites or corequisites, and without the permission of the instructor, may be withdrawn from these courses after the beginning of classes.

   Permission of Instructor
   Where the prerequisite of a course is permission of the instructor, students who register in the course without permission may be withdrawn after the beginning of classes. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

   Supervised Reading or Research Courses
   Registration in supervised research or reading courses, thesis courses, etc., requires the written consent of the instructor, provided on the form printed on page 24 of this Calendar. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

5. Registration Information
   Full registration information and the Schedule of Fees will be provided by the Registrar’s Office as follows:

   1980 Summer Session
   Students who were registered at the College in the 1979 Summer Session or the 1979-80 Winter Session should pick up registration information from the Registrar’s Office in March or April. New students and students re-enrolling in courses after a year away will be mailed their registration material.

   1980 Winter Session
   Students who were registered at the College in the 1979 Summer Session or the 1979-80 Winter Session will receive registration material in the mail in June 1980. New students and students re-enrolling in courses after a year away will receive their registration information with their letter of admission or with the letter verifying re-enrollment of their enrolment.

ACADEMIC CALENDAR

Summer Session 1980

1 April
   Last day for new students to apply for admission to the University for the Summer Session wishing to enrol in ‘Y’, ‘A’, ‘F’ or ‘H’ courses.
15 May
   Last day for new students to apply for admission to the University for the 1980 Summer Session wishing to enrol in ‘B’ or ‘S’ courses.

Friday 9 May
   Last day to register for ‘Y’, ‘A’, ‘F’ and ‘H’ courses.
Monday 12 May
Friday 16 May
   Last day to enrol in ‘Y’, ‘A’, ‘F’ or ‘H’ courses.
Monday 19 May
   Victoria Day - University closed.
Friday 2 June
   Last day to withdraw from ‘A’ and ‘F’ courses.
Friday 6 June
   Last day to enrol in ‘Y’, ‘A’, ‘F’ and ‘H’ courses.
Monday 20 June
   Last day of classes in ‘A’ and ‘F’ courses on St. George and Erindale Campuses.

Monday 23 June
   Examination week in ‘A’ and ‘F’ courses on St. George and Erindale Campuses.
Thursday 26 June
   Last day of classes in ‘A’ and ‘F’ courses.

Winter Session 1980-81

Monday 30 June
   Last day for new students to apply for admission to the University for the Winter Session 1980-81 wishing to enrol in ‘Y’, ‘A’, ‘F’ and ‘H’ courses.

Mr. 1 July
   Last day to register for ‘B’ and ‘S’ courses.
Tuesday 7 July
   Classes for ‘B’ and ‘S’ courses begin.
Tuesday 8 July
   Last day to enrol in ‘B’ or ‘S’ courses.
Friday 11 July
   Last day to enrol in ‘Y’, ‘A’, ‘F’ and ‘H’ courses.
Friday 25 July
   Last day to withdraw from ‘B’ or ‘S’ courses.
Monday 4 August
   Civic Holiday - University closed.
Tuesday 12 August
   Last day of classes in ‘B’ and ‘S’ courses on St. George and Erindale campuses.
Wednesday 13 August
   Examination week in ‘Y’, ‘B’, ‘H’ and ‘S’ courses on St. George and Erindale campuses.
Friday 15 August
   Last day of classes in Scarborough Campus courses.

Mon., 1 September
   Labour Day - University closed.
Wednesday 3 September
   Registration for students who did not complete all registration procedures during the summer.

Monday 8 September
Friday 19 September
   Last day to enrol in ‘Y’, ‘H’, ‘F’ or ‘A’ courses.
Monday 23 September
   Last day this term to transfer into a new Specialist, Major or College Programme.
Monday 13 October
   Thanksgiving Day - University closed.
Friday 31 October
   Last day to withdraw from first term ‘F’ or ‘A’ courses.
Monday 1 December
   Last day for receipt of application for University of Toronto In-Course Baccalaureate.

3
Friday 5 December Last day of classes in the first term.
Monday 8 December Last day for submission of term assignments in 'F' and 'A' courses.
Monday 19 December Term test and final examination period.

1981

Monday 5 January Classes for the second term begin. Second term 'B' and 'C' courses begin.
Monday 16 January Last day to register for 'S' and 'B' courses.
Friday 13 February Last day to enrol in 'S' or 'B' courses.
Friday 20 February Reading Week - all classes cancelled.
Monday 27 February Last day to withdraw from 'Y' and 'H' courses.
Friday 10 April Last day of classes; no tests or examinations may be held until the beginning of the examination period.
Friday 17 April Good Friday - University closed.
Tuesday 23 April Last day for submission of term assignments for 'Y', 'H', 'S', or 'B' courses.
Tuesday 31 May Final examinations begin.
Monday 11 May Annual examinations end.
Monday 8 June Spring Convocation begins.


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D. Hall, B.Sc. (Toronto), Senior Tutor
S. Chau, B.A. (Delft), M.Sc. (McMaster), Instructor
E. Moore, M.A. (Memorial), Instructor
E. Perk, M.A., Ph.D. (Western Ontario), Instructor
D. Shor, Ph.D. (Cincinnati), Instructor

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W.Y. Bidwell, O.C., M.A. (Oxon.), LL.D., F.R.S.C., Professor Emeritus and Honorary Lecturer
A. Berry, B.A. (Western), Ph.D. (Pomona), Professor
ADMISSION

The following is a brief description of the admission policies and procedures of the University of Toronto. Full information may be obtained from:

The Office of Admissions
University of Toronto
515 Bloor Street West
Toronto, Ontario, M5S IA3

Bases of Admission

(1) Ontario Grade 13

Admission to the College may be offered to students in an Ontario Secondary School who have demonstrated good standing, including:

(a) completion of secondary school studies, including a full programme of academic work at the Grade 13 level;
(b) - before 1972, seven Grade 13 credits were required;
(c) - from 1972 to present, six Grade 13 credits are required

(2) Other Canadian Provinces

Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Saskatchewan - Grade 12
Newfoundland - 1st year Memorial University
Prince Edward Island - 1st year University of Prince Edward Island
Quebec - C. E. G. P. E. I or equivalent

(4) Other Canadian Universities

Students who have completed work at other universities may be considered for admission with advanced standing credits. Credit is granted only for work which is considered appropriate for inclusion in an Arts and Science programme at the University of Toronto.

(4) Other Countries

Students who would like to apply for admission on the basis of work completed in other countries should write to the Office of Admissions, outlining their academic qualifications. Students who appear to be eligible for admission consideration will be mailed application forms and further information.

(5) Non-Matriculants

Applicants who do not hold the published admission requirements may be considered for admission, where the applicant:

(a) is 21 years of age;
(b) has been resident in Ontario for at least one year as a Canadian citizen or landed immigrant; and
(c) has achieved high standing in one, special, pre-university course* or has completed two Grade 13 courses, with a 70% overall average and not less than 60% in each (in lieu of the pre-university course).

* Pre-university courses are offered by Woodsworth College of the University of Toronto in English, History and one of the St. George Campus Canadian Studies, Chemistry and Mathematics. Completion of one or more of these courses generally requires attendance at class for two evenings per week for a winter or summer session. Successful completion of a pre-university course does not ensure admission in all cases. Hence, students must consult with the Office of Admissions before enrolling in one of these courses to ensure that completion of a course will indeed make the applicant eligible for admission consideration.

(6) Special Admission and Appeals

Students who have not completed secondary school, but who have had other educational or work experience which they believe demonstrably their ability to do university work, may present a special case to the Scarborough College Special Admissions Committee. Such cases will be considered only where applicants are Canadian citizens or landed immigrants, have been Ontario residents for one year, and are at least twenty-one years of age. Students who have completed secondary school or some post-secondary study, but whose grades do not meet the usual admission requirements, may bring special circumstances to the attention of the Special Admissions Committee.

Applicants who wish to have a special case considered by the Special Admissions Committee should arrange an interview with the Admissions/Liaison Counsellor, Scarborough College, University of Toronto, 285 Military Trail, West Hill, Ontario, M1C 1A4.

English Facility Requirement

Students whose mother tongue is not English and who have not completed at least two years of study in a Canadian secondary school are required to present evidence of facility in the English Language. Students may complete this requirement by:

(a) earning a score of at least 70% on the University of Michigan Test of English Language Proficiency; earning a score of at least 550 on the Test of English as a Foreign Language (TOEFL), or by earning a Certificate of Proficiency issued by either Cambridge University or the University of Michigan.

The University of Toronto is a sponsoring agency for the University of Michigan Test of English Language Proficiency and the Test of English as a Foreign Language (TOEFL). Information about these tests will be mailed to any applicant who has not presented evidence of facility in the English language.

Admission Requirements for Students Entering Scarborough College from Grade 13 in the Fall of 1982-83 and Thereafter

(1) Grade 13 academic subjects will be arranged into the following five groups for the purposes of admission:

Group A: English (or English "current language second"

Group B: Languages other than English

Group C: Mathematics

Group D: Sciences

Group E: Other Humanities and Social Sciences

(2) For admission, at least six Grade 13 credits will be required in the above subjects, distributed as follows:

(a) at least one credit in English (English or English "current language second"

(b) sufficient additional credits for a total of six, chosen in such a way as to cover at least one credit in each of Group B or Group D or Group E.

(3) Among the six credits required for admission, applicants may not present more than:

(a) two credits in the field of English, however designated;

(b) three credits in mathematical subjects, including such courses as Accounting, Statistics, etc.

(c) three credits in any other subject.

Note: Generally not more than one credit is available in each of the sciences; however, an applicant may present two credits, where possible, in a single science and one in another science, or one credit in each of three different sciences.

Application Procedures

(1) Current Ontario Grade 13 Students

Students currently enrolled in an Ontario secondary school should submit applications through their school guidance or student services office.

(2) All Applicants Other than Current Ontario Grade 13 Students

All applicants, other than current Ontario Grade 13 students, should request application forms from the Office of Admissions, giving full details of their educational background and standing.

Application Dates

Students are strongly advised to submit application forms as soon as possible and before the following dates:

Admissions to the Summer Evening Courses (beginning in May) - April 1

Admissions to the Winter Day Courses (beginning in July) - May 15

Admission in the Winter Session - June 30

Applications will be accepted after the above dates to the maximum extent possible. However, applications received after the above dates will receive priority consideration.

AWARDS

Admission Scholarships

A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing as demonstrated by Grade 13 marks. Grade 12 marks and other information submitted by the secondary school will also be considered.

To apply, Grade 13 students should complete an application form, available in all Ontario secondary schools in early spring. Successful applicants will be notified at the time they receive an offer of admission to the University.

Scarborough College Alumni Admission Award

Awarded to a Graduate of a Borough of Scarborough High School (Public or Catholic) who has provided evidence of valuable community service and demonstrated high academic standing. Applications will be available from Scarborough Schools.
Plumptre Admission Award. Awarded to the Grade 13 student whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Dr. A.D. Plumptre, a former principal of Scarborough College.

In-Course Awards
University of Toronto In-Course Scholarships. Awarded to the outstanding students who have completed at least one year's work at the University of Toronto. All students with excellent academic standing are considered; no application is required.

A. D. Allen Scholarship. Awarded to the outstanding student in each year at Scarborough College, in any field of study. The scholarships are awarded in memory of Dr. A. D. Allen, a former principal of Scarborough College.

Scarborough College In-Course Scholarships. Awarded to the outstanding student in each year at Scarborough College, in each of Humanities, Science and Social Sciences. All students with excellent academic standing are considered; no application is required.

The Hudson's Bay Company Scholarship. Awarded to a student who has demonstrated outstanding academic achievement at the end of third year. The scholarship alternates between students in the Humanities/Social Sciences and Life Sciences/Physical Sciences. All appropriate students with excellent academic standing are considered; no application is required.

The Ali Tayeb Scholarship. Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. Awarded in memory of Professor Ali Tayeb, a former member of the Faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty; no application is required.

Partial Bursary in Psychology. Awarded to a full-time student who has completed a three-year programme and plans to pursue a fourth year (either graduate or undergraduate) with specialization in Psychology. The bursary is awarded on the basis of academic standing (at least Grade B standing is required) and financial need. Awarded in memory of Professor Vivian Pastak, a former member of the faculty in Psychology. The competition will be announced each spring, with applications available from Student Services.

Diefenbaker Essay Prize. Awarded on the basis of an essay, 2,500 to 5,000 words in length, on any topic within the general field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Entries are nominated by instructors.

Graduation Prizes
The following awards are made in recognition of academic excellence among the members of the graduating class each spring. All outstanding members of the graduating class are considered; no application is required.

The Governor General's Silver Medal. Awarded to the outstanding member of the graduating class, chosen from among the winners of the graduation prizes.

Graduation Prizes in Humanities, Life Sciences, Physical Sciences and Social Sciences. Awarded to the outstanding member of the graduating class in each of these four areas of scholarship. Recipients of three-year and four-year degrees are considered.

All Tayeb Prize. Awarded to the outstanding member of the graduating class in Geography.

The Book Society Prize in Classical Studies. Awarded to a member of the graduating class who has taken a minimum of five courses in Classical Studies and has achieved the highest standing in those courses, including at least one full course in Latin or Greek.

Scarborough College Honours List
Scarborough College publishes annually an honours list, including the names of all students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study (or equivalent amount of part-time study) and including perhaps the names of other students selected on the basis of academic excellence. Inclusion of a student's name on the annual honours list is reported on the student's transcript, and is recognized by the College in other appropriate ways. All students with grade point averages of 3.70 or better at appropriate junctures of their career are recognized. Other students may be nominated by the academic division of the College. No application is required.

Graduation With High Distinction and With Distinction
Students who complete their degree with a cumulative grade point average of 3.50 or better graduate with distinction. Those who complete their degree with a cumulative grade point average of 3.20 or higher graduate with distinction. The achievement of these students is recognized at the Convocation ceremonies and is recorded on students' transcripts.

Bursaries
University of Toronto In-Course Bursaries. Applicants for bursaries must demonstrate exceptional financial need. Applications may be obtained from the Student Services Office.

Deadline: December 1.

University of Toronto Visa Student Bursaries. Foreign students required to pay the higher tuition fee who have previously been enrolled at this or another Ontario university may be considered for visa student bursaries. The bursaries are awarded to those students who demonstrate that they require financial assistance.

Application deadline: November 1. May 15 for renewal assistance.

Scarborough College In-Course Bursaries. Applicants for bursaries must demonstrate exceptional financial need. Applications may be obtained from the Student Services Office.

Deadline: February 15.

Ontario Student Assistance Programmes
Canadian citizens or landed immigrants who have established themselves in Ontario, and who demonstrate financial need, may be eligible for interest-free loans in grants. Full information may be obtained from the Student Services Office.
Academic Regulations

Student Responsibility

1. It is the responsibility of each student to read these academic regulations carefully and to adhere to them. It is also the responsibility of each student to read carefully instructions and information about academic honesty and the like.

2. Some of these regulations may appear to be complicated. Counsellors in the Student Services will be pleased to assist any student in the interpretation of these regulations, in ensuring students who encounter special difficulties to request special consideration with respect to the regulations.

Course Selection

1. In selecting their courses, students must adhere to the following regulations:
   a) Courses selected must satisfy the degree requirements.
   b) All courses must satisfy the requirements of students' Programmes of Study (Specialist or Major Programmes) or College Programmes. (The completion of an appropriate course in the 1980 Summer Session or thereafter when the "Programme" requirements are met will not satisfy the degree requirements.)
   c) Students may register for credit in no more than seven A-level courses.
   d) Students proceeding to a three-year degree may include, among the fifteen courses required for their degree, no more than ten courses in any single discipline. (This regulation applies only to students who first registered at the College in the 1980 Summer Session or thereafter when this regulation came into effect.)
   e) Prerequisites and corequisites for each course (as stated in the course descriptions) must be met, unless waived by the instructor.
   f) Students may not register for credit for a course if they have already passed another course shown in the course description as an exclusion to that course.
   g) Students may not register for credit in a course if they have already passed that course. Students may re-register in a course if they have taken, but failed, in such courses, both registrations in the course are shown on the student's record, and both grades count in the student's grade-point average.
   h) Students may not register for credit in a course which is a specific prerequisite for a course they have already passed.

2. Students may select as many courses as they wish with each Session (and proceed to their degree at a rate of their own choosing), except as follows:
   a) The usual load for a full-time student in the Winter Session is five courses.
   b) The usual maximum load for a student in the Summer Session is two courses.
   c) A student who is on probation may enroll in no more than five courses in the Winter Session or one and one-half courses in the Summer Session.

3. Students must register for their courses in accordance with instructions issued each Session by the Registrar. Students who wish to change their registrations must do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" section of this Calendar.

   a) may be a change of students' Programme of Study (Specialist or Major Programmes) or College Programmes. (The completion of an appropriate course in the 1980 Summer Session or thereafter when the "Programme" requirements are met will not satisfy the degree requirements.)

Notes:

1. A Course. The word course is used in two ways. In reference to a single course, such as "standing in a course" or "the last day to withdraw from a course," the word refers to a full course or half course. In reference to a given number of courses (such as the requirement of passing fifteen courses for a three-year degree), the word refers to a number of full courses, or the equivalent in full and half courses.

2. To Pass A Course. To pass a course means to obtain a grade of "C" or better in that course or "Credit" in a Credit/No Credit course or "Honours" or "Pass" in an Honours/Pass/Fail course.

3. A Specific Prerequisite. This rule does not apply in the case of non-specific prerequisites (such as "one or two more completed courses in English") or in the case where one of two or more completely different courses may serve as prerequisite.

Degree Requirements

1. Three-Year Degree: New Requirements

   The following "new" requirements apply only to students first registered at the College in the 1980 Summer Session or thereafter. To qualify for a three-year degree, such students must:
   a) pass at least fifteen courses;
   b) among these fifteen courses, include no more than ten courses in any single discipline;
   c) among these fifteen courses, pass at least eight B-level and/or C-level courses;
   d) complete the requirements of a Major Programme or a College Programme;
   e) earn a grade of "C+" or better in at least ten courses, including at least six B-level and/or C-level courses;
   f) earn a cumulative grade point average of at least 1.50;
   g) for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.

2. Three-Year Degree: Old Requirements

   The following "old" requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a three-year degree, such students must:
   a) pass at least fifteen courses;
   b) among these, pass at least eight B-level and/or C-level courses;
   c) earn a grade of "C+" or better in at least nine courses, including at least five B-level and/or C-level courses; and
(8) "Specialist" Programmes were until this year called "Major" Programmes. This change in terminology is dependent on approval of the Governing Council of the University.

9. "MAT" & "STA" courses, are considered to be courses in Science for purposes of determining eligibility for the B.Sc. degree. Other courses in statistical methods offered by statistics after disciplines may or may not count as courses in Science for purposes of this rule. Thus, for example, ANT343, GGR307, PSY307 and PSY308 are listed in the rule and may be counted as science courses: ECB011, ECB012 and SOC306 may not.

10. Courses shown in parentheses are courses that were in the curriculum in previous years, but are no longer. These courses may be counted as Science courses for purposes of this rule.

Programme Requirements: New Rules

The following requirements apply only to students who first registered in the College in the 1980 Summer Session or thereafter.

(1) To meet the requirements of the three-year degree, students must complete either a Major Programme or a College Programme.

(2) To meet the requirements of the four-year degree, students must complete:

(a) a Specialist Programme, or

(b) two Major Programmes, or

(c) a Major and a College Programme.

Specialist Programmes

Specialist Programmes are designed to provide depth and intensity of study with a limited area - a discipline, a group of disciplines or a particular theme or area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. (A list of Specialist Programmes may be found on p. 39.)

Major Programmes

Major Programmes are designed to provide concentration in an area of study - a discipline, a group of disciplines or a particular theme or area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses. (A list of Major Programmes may be found on p. 39.)

College Programmes

College Programmes are designed to provide an organizing framework for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three-year or a four-year degree. (A list of College Programmes may be found on p. 39.)

Approved Individual Programmes

Students may, if they wish, propose individual programmes of study, other than those described in this Calendar.

(a) Normally, such proposals will be considered favourably only from students on the Scarborough College Honours List (see page 14).

(b) Proposals should be made to the Associate Dean, who will convey them to the College Sub-committee on Academic Programmes.

(c) Proposals may be made at any time after the session in which students complete their fourth course.

(d) Proposals submitted before 15 July will be considered in time to enable students to register in their Approved Programmes in the forthcoming Winter Session. If possible, proposals should be submitted earlier.

(7) Course Selection for Programmes of Study

Students are responsible for ensuring that their course selection will enable them to complete the requirements of their Programmes by the time they complete their other degree requirements.

(a) A member of the College faculty serves as Supervisor for each Programme. Students should note that, in certain Programmes, approval by the Supervisor of some or all courses is necessary. In all Programmes, the Supervisor is available for advice concerning Programme requirements and course selection.
(9) **Programme Regulations:** Applicable to Pre-1998 Students

(1) Students who first registered at Scarborough College before the 1980 Summer Session (when the new Programme requirements came into effect) are not required to complete a Programme(s) in order to complete their degree. Such students may, however, still choose to complete a Programme(s) and obtain certification on their transcripts.

(2) Wherein a student has failed fewer than five courses as of the beginning of the 1979-80 Winter Session and wishes to complete a Programme(s), they will be expected to complete the Programme(s) and obtain certification on their transcripts.

(3) Students who had failed at least five courses as of the beginning of the 1979-80 Winter Session, retain the right to certification by completing the Programme described in the 1979-80 Calendar. Students who are eligible to receive certification by completing Programme(s) described in the 1979-80 Calendar and to consult with the Supervisor about Programme(s) described in the 1980-81 Calendar and to consult with the Supervisor about Programme(s) described in the 1980-81 Calendar. Students who are eligible to receive certification by completing Programme(s) described in the 1979-80 Calendar and to consult with the Supervisor about Programme(s) described in the 1980-81 Calendar and to consult with the Supervisor about Programme(s) described in the 1980-81 Calendar.

(10) **Certification of Completion of Programmes**

(a) Certification of completion of Specialist, Major and College Programmes will appear on students' transcripts.

(b) Students need certification of completion of their programme early in their final session of study at the College, at the same time as they request inclusion of their name on the graduation list. (See below, "Degrees"). Students are given complete information about the procedure early in each Summer and Winter Session.

(11) **Regulations Concerning Programme of Study**

(a) Students may register in no more than two Programmes at any time. Students may receive certification of completion of no more than two Programmes.

(b) Where a student is registered in two Major and/or College Programmes, overlapping course requirements, a student may not use more than two courses to fulfill the requirements of both Programmes. If a course is used to fulfill the requirements of two Programmes, students must substitute additional courses approved in advance by their Supervisor to reduce the overlap to two courses or fewer. Such substitutions should be discussed with the appropriate Supervisor when the student first registers in the overlapping Programmes.

(c) Where a student completes the requirements of a three-year degree and of a Major or College Programme, and subsequently chooses to complete a four-year degree and a Specialist Programme, the student may use the courses already accredited to the Major or College Programme to fulfill the requirements of the Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Major or College Programme will be removed from the student's record and will be replaced by certification of the Specialist Programme. Students will note that the requirements of the Specialist Programme and the corresponding Major or College Programme have been designed to facilitate changes between the Programmes.

(12) **St. George Courses and Programmes**

Students should note that certain Programmes will require students to take some of their courses on the St. George Campus.
Standing in a Course

(1) Grading Scheme

Students are assigned a grade in each course, as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point Value</th>
<th>Percentage Equivalent</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>90 - 100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>85 - 89</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>80 - 84</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77 - 79</td>
<td>Good</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>73 - 75</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>70 - 72</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>67 - 69</td>
<td>Adequate</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>63 - 66</td>
<td></td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>60 - 62</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>57 - 59</td>
<td>Marginal</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>53 - 56</td>
<td></td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td>50 - 52</td>
<td></td>
</tr>
<tr>
<td>No value</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>No value</td>
<td>Honours in an Honours/Pass/Fail course</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>No value</td>
<td>Pass in an Honours/Pass/Fail course</td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>No value</td>
<td>Credit in a Credit/No-Credit course</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>0.3</td>
<td>31 - 40</td>
<td>Entailiague</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>0 - 34</td>
<td>Wholly inadequate</td>
</tr>
<tr>
<td>FL</td>
<td>No value</td>
<td>Fail in an Honours/Pass/Fail course</td>
<td></td>
</tr>
<tr>
<td>NCR</td>
<td>No value</td>
<td>No credit in Credit/No-Credit course</td>
<td></td>
</tr>
</tbody>
</table>

Grades of "E", "F", "FL", and "NCR" are failing grades, yielding no standing in a course and no degree credit.

Notes:
1. The use of the Honours/Pass/Fail Grading scheme is dependent on approval by the Governing Council of the University.
2. The exclusion of the grade "no credit" from the grade point average is dependent on approval.

(2) Credit/No Credit and Honours/Pass/Fail Courses

In some courses such as music performance courses, drama courses, or conversation courses in either of the following systems:

- (a) Credit/No Credit (CR/NC), or
- (b) Honours/Pass/Fail (HP/FPF).

Where a student earns a grade of Honours, Pass, or Credit in such a course, the course counts as degree. The grades of No Credit and Fail are failing grades, yielding no standing in the course and Honours/Pass/Fail system are not included in any grade point average.

Standing Deferred

The Sub-committee on Standing may, on petition, assign an interim grade of "Standing Deferred" (SDF). This grade is assigned in cases where an extension of time to complete a course is granted on the basis of medical or similar evidence. The grade of "Standing Deferred" must be replaced by a regular grade assigned by the instructor before the expiry of a specific extension period.

Asgnant Standing

The Sub-committee on Standing may, on petition, assign a grade of "Asgnant" (AES). This grade is assigned on the basis of term work where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the work of the course with a term mark of B or better. Where a student is assigned Asgnant standing, the course is counted as one of the courses required for the degree and as one of the courses at C- or better required for the degree. The course is not included in any grade point average.

Overall Standing

(1) Grade Point Averages

Both a sessional and a cumulative grade point average (GPA) will be calculated for each student at the end of each session, and shown on the student's transcript.

(a) A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half course are added together and this total is divided by the number of full courses (or equivalents) taken.

(b) A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer).

(c) A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.

(2) Determination of Academic Status

(a) In Good Standing

Students who maintain a cumulative grade point average of 1.50 or better shall be said to be "in good standing".

(b) On Probation

Students shall be placed on probation as follows:

(i) Students shall be placed on probation who have attempted at least four full courses (or equivalent) in the College and have a cumulative GPA of less than 1.50.
(ii) Students returning from suspension (under detail below or under any provision in previous College rules) shall be placed on probation again.

(c) Probation Cleared

Students may clear probation by achieving a cumulative GPA of 1.50 or better. Students who have cleared probation shall be said to be again "in good standing".

(d) Suspended or Rejected Further Registration

Students who are on probation shall be liable for suspension or refusal of further registration if:

- they have attempted at least two full courses (or equivalent) since most recently having been placed on probation; and if
- they still have a cumulative GPA of less than 1.50.

(i) A probationary GPA shall be calculated for such students, being the GPA of all courses taken since the student was most recently placed on probation.

(ii) Where the probationary GPA is 2.00 or better, the student may continue on probation.

(iii) Where the probationary GPA is less that 2.00, the student will incur suspension or refusal of further registration.

- Students who have incurred no previous suspension will be suspended for one year.
- Students who have previously incurred but not yet suffered a suspension will be suspended for one year.
- Students who have previously incurred a three year suspension will be refused further registration in the College.

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(3) Petitions for Application of Pro-1978 Rules
The rules governing the determination of academic status in (2) above, were introduced as of the 1978 Summer Session.
(a) Students whose degree programmes under the "old" (pro Summer 1978) rules, and where students incur suspension or refusal of further registration under the "new" rules (above), students may petition for application of the "old" rules. (The "old" rules may be found on pages 24-25 of the 1979-80 Calendar, or may be consulted in the Registrar's Office or the Student Services Office.)
(b) Such petitions will be granted, except:
(i) where students would incur the same penalty, or a more severe penalty, through application of the old rules; and
(ii) where students would, at some earlier session, have incurred the same penalty or a more severe penalty through application of the old rules.
(c) No petition for application of the old rules will be granted to prevent a student from being placed on probation under the new rules.
(d) Students who begin their degree programmes before the 1978 Summer Session, and who incur suspension or refusal of further registration, are invited to consult with the Registrar's Office to determine their eligibility to petition for application of the old rules.

(4) Determination of Academic Status for Students Admitted on Condition
In certain circumstances, students who do not meet normal admission requirements may be admitted "on condition". The academic status of such students is determined according to the following rules:
(a) The standing of students admitted on condition will be assessed at the end of the session in which such students complete their second course (full or half course equivalent).
(b) Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be said to be "in good standing."
(c) Where such students earn a grade point average of less than 1.70, they will be suspended for one year.
(d) Upon their return from suspension, their academic status will be assessed according to the appropriate rules, in (2) above.

Courses on Other Campuses
To enrich course selection opportunities, students on each campus of the University of Toronto are permitted to take some courses on other campuses, if they wish to do so. Hence, students at Scarborough College are permitted to register in courses offered by the Faculty of Arts and Science at the St. George and Erindale campuses, subject to the following rules. The rules differ for full-time and part-time students.

(1) Full-time Students
(a) Definition
For purposes of these regulations, a full-time student is defined as one enrolled in four or more courses in the preceding Winter Session.
(b) Equivalents Courses
(d) Full-time students may not register in any course on another campus in the Winter Session where an equivalent course is offered on the Scarborough Campus in the same session. A list of courses, deemed to be equivalent for purposes of this rule, may be consulted in the Registrar's Office, in Student Services, or in any of the Divisional Offices.
(e) Exempted from this rule are students who have, at the beginning of the session, passed fourteen or more courses and who are enrolled in a Specialist Programme which specifies completion of one or more courses on the St. George Campus.
(f) This rule, concerning equivalent courses, does not apply to the Summer Session.
(c) Sessional Limits
(d) A full-time student may register in a maximum of two St. George or Erindale courses in any Winter Session.
(e) A full-time student may register in a maximum of one St. George or Erindale course in any Summer Session.

(2) Part-time Students
(a) As part-time students are often able to take courses only in the evening (and hence have a relatively limited range of courses available) and in addition pressure is somewhat less for evening courses, special arrangements are available for part-time students to take courses on other campuses.
(b) For purposes of these regulations, a part-time student is defined as one enrolled in three and one-half or fewer courses in a Winter Session. For purposes of application of these regulations in the Summer Session, a part-time student is defined as one who completed regulations in the Summer Session, and in any other Session, three and one-half or fewer courses in the preceding Winter Session.
(c) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(d) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(e) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(f) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(g) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(h) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(i) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(j) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(k) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(l) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(m) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(n) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(o) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
(p) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
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(t) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
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(z) Of the total number of courses completed by Scarborough College students, at least one of the courses is required to be completed by each student under the regulations in the preceding Winter Session.
Courses at Other Universities: Study Elsewhere Year

Students are encouraged to consider seriously the Study Elsewhere Programme, whereby credit may be obtained for work done elsewhere than at the University of Toronto.

(1) Programme of Study

There are basically two types of Study Elsewhere:

(a) Students may, after having obtained official approval from Scarborough College, (see below) register with the University and follow its courses for credit. (These courses must be taken at a University that is accredited by the University Senate.)

(b) Students may elect to do Scarborough College supervised reading or independent study Programmes of study in a location which will enhance their education in these courses (the "Supervised Study Elsewhere Programme"). A student may register for credit transfer, and some Scarborough College supervised study courses taken while the student is on the host campus.

(2) Fees and Aid

(a) Students in the Credit Transfer Programme pay the appropriate fees at the host university and a $100 fee to the University of Toronto in order to maintain registration in Scarborough College.

(b) Students in the supervised Study Elsewhere Programme pay the regular Scarborough College fees per course.

(c) Students in a mixed programme pay $250 for each full course (or equivalent) for which they register in the University.

(d) Students who would have been eligible for Ontario Student Assistance for study at Scarborough College may be eligible for similar assistance in the Study Elsewhere Programme. Consult the Student Services Office for full information.

(3) Application

The interested student is invited to consult with the Associate Chairman, Division of Humanities, who coordinates the Programme. In consultation with the student, the Associate Chairman will arrange for a supervision of study from among the faculty to the Associate Chairman three months before the beginning of the proposed term of study.

(4) Regulations

(a) Any student of the College who is not on probation or returning from suspension, and who has completed four full courses, may apply for admission to the Study Elsewhere Programme.

(b) Applications must be accompanied by the approval of the Dean of the Faculty and the Dean of the College.

(c) Once registration in Scarborough College is maintained, the general regulations of the College pertain to students in the Study Elsewhere Programme (except as in (a) below).

(d) No more than three full courses in a degree programme may be taken in the Study Elsewhere Programme.

(e) Students participating in the Study Elsewhere Programme should complete their approved course of study by the beginning of the next Winter Session.

Academic Transcripts

(1) The academic transcript is the official statement of the academic record of each student.

(2) Contents

The transcript records the following information:

(a) Information to identify the student: full name, university student number, social insurance number, and date of birth.

(b) Admission information: basis of admission (e.g., Ontario Grade XII, 85.0%); listing of courses completed at other universities for which the student was granted advanced standing credit.

(c) The student's academic record, listed chronologically by session. For each session, the transcript includes:

(i) Each course attempted, its abbreviated title, and its grade;

(ii) The cumulative grade point average as of the end of the session;

(iii) The student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, or refused further registration;

(iv) Any academic honours awarded at the end of the session: scholarships, prizes, or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

(3) Ordering Copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a copying fee: one dollar and fifty cents for the first copy and fifty cents for each additional copy ordered at the same time.
Withdrawal

(1) Withdrawal from a Course
(a) Students may withdraw from courses up until the following deadlines:

<table>
<thead>
<tr>
<th>Year</th>
<th>Summer</th>
<th>1980-81 Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year long courses ('Y' and 'S')</td>
<td>18 July</td>
<td>13 February, 1981</td>
</tr>
<tr>
<td>First term courses ('F' and 'A')</td>
<td>6 June</td>
<td>30 October, 1980</td>
</tr>
</tbody>
</table>

Where a student withdraws from a course by the appropriate deadline, no record of registration in the course is shown on the student's transcript.

(b) A student may effect withdrawal from a course by completing a Registration Change Form and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.

(c) Students who withdraw from courses by appropriate deadlines are entitled to a full refund. For full information, please refer to the "Schedule of Fees" published each session. The amount of the fees adjustment is determined by the date upon which the "Registration Change Form" or other written notification is received by the Office of the Registrar.

(d) Students who withdraw from courses will be given or mailed a registered copy of their Registration Change Form. Students should retain these copies until after they have received their "Statement of Results" for the particular session.

(2) Withdrawal from the College
(a) Students who wish to withdraw from the College effect withdrawal by:

(i) withdrawing from all courses, in accordance with the procedures and deadlines above; and
(ii) completing the procedures outlined in (b) below.

Where a student withdraws from the College after completing a first term course, the student retains credit for that course so that it remains a passing grade. Where a student wishes to withdraw from the College before completing a course but after the deadline for withdrawal from that course, the student will not be permitted to withdraw from that course. That is, registration in the incomplete course will be shown on the academic transcript along with (probably) a failing grade.

(b) In addition to effecting withdrawal from courses, students must complete the following procedures and submit a "Withdrawal Clearance Form" to evidence their completion:

(i) Notify any borrowed books to the Library, pay any outstanding Library fines, and surrender their Library Card;
(ii) Return any equipment borrowed from the College Recreation Centre and surrender any Recreation Centre locker;
(iii) Notify any College locker and return (perhaps for a partial refund) any College parking permit;
(iv) Notify any laboratory locker and equipment; and
(v) Notify their registration card.

Students who wish to withdraw from the College should speak with a counsellor in the Student Services Office. The counsellor will advise students concerning the academic consequences of their withdrawal (including the date the notice will appear on their transcript), the procedures for removing the course from the student's transcript, and advise appropriate students with respect to any required repayment of Ontario Student Assistance. (These procedures are not applicable to any student simplifying their part-time status.)

(c) Where students withdraw from the College, and withdraw from all of their courses in the Session, no record of registration and withdrawal is shown on their transcripts. (This policy became effective beginning with the 1978 Summer Session.)
Grading Practice Policy

(1) As early as possible in each course (and no later than the last date to add that course) the instructor will make available to the class the methods by which student performance will be evaluated and the relative weight of these methods.

(2) After the methods of evaluation have been made known, the instructor may not change them or the course.

(3) The final grade in a course will normally be based on more than one evaluation element, e.g. assignment, exam, essay, presentation, and so on. Normally, no evaluation from that requirement are advanced seminar courses or supervised research or supervised thesis, a research essay or project, or a comprehensive examination.

(4) Normally, at least one-third of the final grade in a course will be based on supervised examinations.

(a) In A-level courses, at least one-third of the final grade will be based upon a formal examination period in April and May, or in comparable examination periods in the fall.

(b) In B-level and C-level courses, at least one-third of the final grade will normally be based upon a formal examination period in April, or in comparable examination periods in the fall.

(c) Alternatively, a supervised term test(s), examination upon the request of the student and approval of the appropriate Divisional Committee, may be given.

(5) The relative value of each part of a written examination will be indicated on the examination paper.

(6) Instructors will make available to students comments on assessed term work and will make available time for discussion of such term work.

(7) Grades, as an expression of the instructor's best judgment of each student's overall performance in a course, will not be determined by a system of ratings.

(8) Grades, submitted by the instructor in each course, are subject to review by the marks review committee.

(9) Procedures for appeals concerning grades and grading practices, see below “Procedures for Requesting Special Consideration, Petitions, and Appeals”.

Procedures for Requesting Special Consideration, Petitions, and Appeals

(1) Petition for Exception to the Academic Regulations

(a) Students may request an exception to any academic regulation made in the case of: Such a request takes the form of a petition to the Scarborough Committee on Standing.

(b) To enter a petition, the student prepares a written statement:

(i) stating clearly the special consideration requested ;

(ii) stating clearly the grounds upon which such special consideration is requested; i.e., the reasons why the student believes an exception to the rules is appropriate in the particular case; and

(iii) attaching documents to direct special circumstances, medical certificates, etc.

(c) Students who wish to submit medical certificates in support of their petition must ask the physician:

(i) to verify that the student was examined at the time of the illness;

(ii) to state briefly the nature of the illness;

(iii) to indicate the duration of the disability caused by the illness; and

(iv) to indicate the physician's professional opinion as to whether the student should receive special consideration with his/hers academic work on medical grounds.

(2) Requests for Special Consideration in a Course

A student may find it necessary to request special consideration in a course owing to illness or other extenuating circumstances.

(a) Term Work

(i) Special Consideration Before the End of Term

Where students are unable to write a term examination, where their performance is adversely affected by illness or other extenuating circumstances, or where students are unable (for these reasons) to submit term assignments by instructors' deadlines, students should contact the instructor as soon as possible to request special consideration.

(ii) Special Consideration at the End of Term

Where students' medical or other extenuating circumstances occur before the end of term, and where they request extensions of time to submit term assignments or permission to write make-up term examinations after the "last day for submission of term work" (shown in the "Academic Calendar" section of this Calendar), students must submit a formal petition to the instructor, the Academic Regulations Committee, and the appropriate Divisional Committee.

(3) Final Examinations

Where, for reasons of illness or other extenuating circumstances, students are unable to write a final examination, they may request special consideration by means of a petition to the Sub-committee on Standing.

Where students believe that their performance on a final examination may be adversely affected by illness or other extenuating circumstances, students should request the examination and submit a petition to request special consideration.

(4) Students who wish to appeal any decision of the sub-committee on petition, they may send an appeal to the Registrar of Academic Appeals—see (4) Academic Appeals—below.

(5) Requests for Changing Marks in a Course

Where students believe that an error has been made in the calculation of their final grade in a course, or in the calculation of a mark on any examination or term assignment, they may request a re-check of the calculations according to the following procedures:

(a) Term Work

Where students believe that their mark on a term examination or term assignment has been calculated incorrectly, they should speak with the course instructor as soon as possible to request the marks be checked.

(b) Final Examinations

Where students believe that an error may have occurred in the calculation of their final examination mark, they should do the following:

(i) After the issue of their "Statement of Results" but within six months of the relevant examination period, students may request from the Office of the Registrar a re-check of their final examination: A five dollar fee is required at the time of the request.

(ii) If students believe that an error has been made in the calculation of their examination mark, they may submit, through the Office of the Registrar, a
(a) Grading Practices During the Term
(i) Where students believe that an instructor has violated any rule of the College's grading practices during the term, they are expected to discuss this complaint with the instructor at once.
(ii) If this discussion does not yield a resolution to the problem that is satisfactory, students may appeal the decision of the instructor to the Chair of the Division offering the course.
(iii) If the appeal does not yield a resolution to the problem that is satisfactory, students may appeal the decision of the Division to the Principal of the College.

(b) Grading Practices After the End of Term
(i) Where students believe that an instructor has violated any rule of the College's grading practices, and this alleged violation continues to light only after the end of term, students may submit a petition to the Sub-committee on Standing.
(ii) If the petition does not yield a resolution to the problem that is satisfactory, students may appeal the decision on the petition (in the usual manner) by means of an appeal to the College Sub-committee on Academic Appeals. (See below.)

(6) Academic Appeals: the Scarborough College Sub-committee on Academic Appeals
(a) Students may appeal any decision of the Sub-committee on Standing on a petition, including any decision by a Division of the College concerning grading, by means of an appeal to the Scarborough College Sub-committee on Academic Appeals.
(b) An Appeal to the Sub-committee on Academic Appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Standing or by the Division.
(c) An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Sub-committee on Academic Appeals - the Associate Dean of the College.
(d) Students are entitled, if they wish, to a hearing before the Appeals Board and are entitled to representation by legal or other counsel.
(e) Full information may be obtained from the Office of the Associate Dean.

(7) The University of Toronto Academic Appeals Board
(a) Students may appeal any decision of the Scarborough College Sub-committee on Academic Appeals to the University of Toronto Academic Appeals Board.
(b) Such appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Academic Appeals. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Appeals Board.
(c) Students are entitled, if they wish, to a hearing before the Appeals Board, and are entitled to representation by counsel.
(d) Full information may be obtained from the Secretary to the Appeals Board, Office of the Governing Council Secretariat, Room 106, Simcoe Hall, St. George Campus, telephone 979-879.

(8) University Ombudsman
As part of the University's commitment to ensuring that, in spite of its size and complexity, the rights of its individual members are protected, the University Ombudsman has been appointed to investigate grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University - student, faculty, or administrative staff. He assists in any way he can in resolving grievances or complaints, and can recommend changes in academic or administrative practices where this seems justified. In handling a grievance or complaint, he has access to all relevant files and information, and to all appropriate University officials. The Ombudsman also provides information to members of the University about their rights and responsibilities, and the procedures to follow in order to pursue whatever business or complaint they may have.

All matters dealt with by the Ombudsman are handled in a strictly confidential manner unless the individual involved approves otherwise. The Ombudsman is independent of all administrative structures of the University, and accountable only to the University Senate. In setting up the Ombudsman's Office, a special effort has been made to ensure that its services are readily accessible to all members of the University. The office is located at 16 Metcalfe House 32
Circle, just south of the SAC building. Members of the University at Scarborough Campus may arrange to meet with the Ombudsman at the Scarborough College Campus or at the St. George Campus, whichever is more convenient. Requests for assistance are dealt with as quickly as possible.

For information, advice, or assistance, contact the Office of the University Ombudsman, University of Toronto, 42 Hart House Circle, Toronto, Ontario, M5S 1A1 (Telephone: 978-4874).

Disciplines: Academic Matters

Code of Behaviour on Academic Matters

The Governing Council of the University of Toronto has approved a Code of Behaviour regarding academic discipline applying to students and members of the teaching staff of the University. The full text of the Code has been published in this brochure, Welcome to the University of Toronto: A selective guide to student services and facilities, available from the Student Services Office. Important parts of the Code, from the point of view of the student, are shown below.

Academic Offences

In order to protect the integrity of the teaching, learning and evaluation processes of the University, it shall be an offence for any member of the University:

(a) knowingly to use or possess unauthorized aids or obtain unauthorized assistance in any academic examination or term test or to use unauthorized aids or obtain unauthorized assistance in any other form of academic work;

(b) knowingly to represent as that of the member in any academic work submitted for credit in a course or programme of study any idea or expression of an idea of another;

(c) knowingly to submit for credit in any course or programme of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has been previously obtained or is being sought in another course or programme of study in the University or elsewhere;

(d) knowingly to submit for credit in any course or programme of study any academic work containing a plagiarized statement of fact or reference to a source which has been constructed;

(e) to forge or in any other way falsify any academic record of the University or of any academic division of the University or to forge or in any other way falsify any academic record of another educational institution used for the purposes of the University of Toronto, or to utter or make use of any such forged or falsified record;

(f) to remove books or other library material from a University library without proper authorization, to willfully mutilate library material or misplace it, or in any other way willfully deprive other members of the University of the opportunity to have access to library resources.

Sanctions

The following sanctions, listed in order of increasing severity, may be imposed by the University Disciplinary Tribunal upon conviction of any student of any offence:

(a) Caution;

(b) Reprimand;

(c) Assignment of a mark of zero in academic work submitted for credit;

(d) Failure in or cancellation of credit for any course or other academic work in respect of which the offence was committed;

(e) Suspension from attendance in all courses in which the student is registered at the time the offence was committed for a period less than twelve months from the date on which the offence was committed and loss of credit for any course or courses which have not been completed or in which no grade or final evaluation has been registered at the time the offence was committed;

(f) Suspension from the University for such period as may be determined by the Tribunal; or

(g) Expulsion from the University.

Reporting

All persons convicted of academic offences under the Code of Behaviour will have their names included in a report by the Provost to the Academic Affairs Committee of the University.

Disciplines: Non-Academic Matters

Student discipline for offences not covered by the Code of Behaviour on Academic Matters is vested, in the case of matters considered to be of University-wide concern, in the Caput. The Caput is composed of the heads of the Colleges and Faculties, the Warden of Hart House, and, in a non-voting capacity, the President of the Students' Administrative Council.

Scarborough College Council has disciplinary jurisdiction over the conduct of all students registered in the College on all matters of local or internal concern to the College. Jurisdiction over the conduct of the College on all matters of local or internal concern to the College. Jurisdiction over the conduct of the College on all matters of local or internal concern to the College. Every decision in the College involving the conduct of a student of the University requires confirmation of the Governing Council.

The roles of the Caput, Scarborough College Council, the Dean of Students in Residence and the Principal, as described above, are contingent on the understanding that offences or actions or clients within the jurisdiction of criminal and civil courts will be referred where appropriate to those courts and that the implications to the University are considered sufficiently important to warrant such review.

Enquiries should be directed to Office of the Vice-President, Campus and Community Affairs, Room 112, Simcoe Hall, University of Toronto (Telephone: 978-2196).

Appendix: Non-Credit Courses in Writing Skills

Students who begin their studies at Scarborough College in the 1989 Summer Session or thereafter will be required to complete the College's English Proficiency Requirement (see page 21 of this brochure) before being permitted to register for courses. The following non-credit courses are intended primarily for students who did not or do poorly on the English Proficiency Test. They are open, however, to all students who wish to improve their writing skills.

ESSL01Y (Basic Writing Skills) and ES1100YS (Writing Skills) are intended for students for whom English is a second language. They are offered through the University of Toronto School of Continuing Studies.

EWSA10Y (Basic Writing Skills) and EWSB10YS (The University Essay) are intended for students whose first language is English.

A fee, to be announced, may be required for enrolment in these courses. These courses do not count for credit towards the degree requirement.

Further information about these courses may be obtained from the Writing Laboratory (5-301P; phone: 978-2249). Timetable information and registration forms may be obtained from the Registrar's Office (5-302).

ESLWY: Basic Writing Skills | Coordinator: M. Tysack (School of Continuing Studies)

This is a non-credit course for students whose native language is not English. The aim of the course is to improve the student's ability to construct grammatically-sophisticated sentences and to incorporate them into a variety of contexts.

The primary focus of this course is on writing a variety of grammatically correct sentences and on using them to develop coherent paragraphs which contain clearly-defined topic sentences. Punctuation and word choice are also important aspects of the course. Written work will be done in class time. Further information about these courses may be obtained from the Writing Laboratory (5-301P; phone: 978-2249). Timetable information and registration forms may be obtained from the Registrar's Office (5-302).

ESLWYS: Writing Skills | Coordinator: M. Tysack (School of Continuing Studies)

This is a non-credit course for students whose native language is not English. The aim of the course is to improve the student's ability to organize and develop a topical essay to organize material in outline form and to write a coherent essay from the outline paying attention to organize material in outline form and to write a coherent essay from the outline paying attention to organize material in outline form and to write a coherent essay from the outline paying attention to organize material in outline form and to write a coherent essay from the outline paying attention to
Teaching methods include: lectures, discussion, group work, workbook exercises, and written assignments.

The textbook is Adams, Thad, Read, React, Plan, Write, Rewriter, Holt.

Session: Winter Day, perhaps Winter Evening and Summer

EWSBBT  Basic Writing Skills  Coordinator: A. Fisher

The aim of this course is to help students learn to construct syntactically clear and correct sentences and to develop a prose style suitable for university level work. The primary focus will be on the sentence level: grammar, punctuation, diction, image and style. The organization and rhetorical development of the paragraph and of the essay as a whole will also be considered.

Teaching methods include lectures, discussions and workbook exercises.

Students will be evaluated on the basis of short weekly essays, usually written in class.


EWSBBT  The University Essay  Coordinator: A. Fisher

The aim of this course is to help students learn to deal with the organization and rhetorical development of the university essay. The primary focus will be on the formulation of a thesis, the organization and presentation of ideas, and the development of paragraphs. Research methods, note-taking, incorporating quotes into essays, and so on will also be dealt with. Report writing may be covered briefly, depending on class needs. Although the sentence level (style, the rhetorically effective sentence, etc.) will be considered.

Teaching methods will include lectures and discussion.

Students will be evaluated on the basis of short weekly essays, usually written in class.


Course Key

The Course Code:

(1) The Discipline Abbreviation. The first three letters of the course code indicate, in an abbreviated form, the discipline or subject area of the course.

ANTHRO "ANT" indicates a course in Anthropology

CHEMISTRY "CHM" indicates a course in Chemistry

PHILOSOPHY "PHL" indicates a course in Philosophy

Joint Courses. The first letter of the course code of a course offered jointly by two disciplines is "J" followed by the first letter of the two disciplines concerned. For example:

JCEB727S indicates a course offered jointly by Commerce and Economics.

(2) The Course Level. The fourth letter of the course code indicates the level of the course.

A level courses Introductory or elementary courses

B level courses Intermediate level courses

C level courses Advanced courses

(3) The Course Number. The fifth and sixth letters of the course code are simply course numbers. In most disciplines, these numbers have no particular significance, except to identify the course in a shorthand form. In some disciplines, however, they are significant - for example in History and Economics. The introductory material at the beginning of the course descriptions is any discipline points out any special significance given to course numbering.
Course Codes: ANTH 1014 is an introductory course in Anthropology taught throughout the session and worths a full course credit. PHIL 102 is an advanced course in Philosophy taught only in the second term and worths one-half a course credit.

Note: Courses marked *** will usually be offered in either the first or second term.

Exclusions, Prerequisites, and Corequisites.

1. Exclusions. If a student already has standing in a course which is indicated as an exclusion, the student may not enroll in the course being described.

2. Prerequisites. A student must have standing in the prerequisite course before he may enroll in the course being described. Prerequisite requirements may, however, be waived by the instructor in the course being described if the student can demonstrate adequate competencies in the prerequisite course.

3. Corequisites. A student must either already have standing in a corequisite course, or he must enroll in the corequisite course at the same time as he takes the course being described. Instructors are permitted to waive corequisite requirements if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting its prerequisite requirements and without obtaining a specific waiver of the prerequisite, the student may be withdrawn from the course at any time during the term.

4. Exclusions, Prerequisites, and Corequisites in Parentheses. Some exclusions and some prerequisite and corequisite courses are enclosed in parentheses. This indicates that the excluded, prerequisite, or corequisite course is no longer in the College's curriculum. A student who has standing in an excluded course contained in parentheses may not take the course being described. A student who has completed, in a previous session, a prerequisite or corequisite course contained in parentheses may make use of the course to meet the requirements of the course being described.

Supervised Reading, Supervised Research and Independent Study Courses.

1. Supervised Reading Courses. Students in reading courses usually work under the direction of a faculty member with whom they meet periodically to discuss their reading, their progress, etc. They may also occasionally share reading with other students doing similar reading. Students should consult with the various disciplines for details of requirements and arrangements in each discipline offering supervised research courses.

2. Independent Study Courses. Students in independent study courses usually work under the direction of a faculty member with whom they meet periodically. A topic for independent study is usually chosen after consultation between student and staff members. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering independent study courses.

Programmes

The following Programmes are offered at St. Andrews College:

- **Anthropology**
  - Geography
  - German Language & Literature
  - History
  - History of Ideas
  - Humanities
  - Latin
  - Linguistics
  - Mathematics
  - Medieval Civilization
  - Modern Languages
  - Philosophy
  - Physics
  - Political Science
  - Psychology
  - Renaissance Studies
  - Russian & Related Studies
  - Sociology

- **Art History**
  - Fine Art History

- **Art Studio**
  - Fine Art Studio

- **English**
  - English

- **Economics**
  - Economics

- **Fine Art History**
  - Fine Art History

- **Fine Art Studio**
  - Fine Art Studio

- **French**
  - French Language & Literature

- **History of Ideas**
  - History of Ideas

- **Humanities**
  - Humanities

- **College Programmes**
  - Myth & Religion
  - Russian & Related Studies

- **Specialist Programmes**
  - German Language & Literature
  - History
  - Italian Language
  - Italian Language & Literature
  - Linguistics
  - Mathematics
  - Medieval Civilization
  - Modern Languages
  - Philosophy
  - Physics
  - Political Science
  - Psychology
  - Renaissance Studies
  - Russian Language & Literature
  - Sociology
  - Spanish Language
  - Spanish Language & Literature

**ANTHROPOLOGY**

Anthropology is the study of human beings, dealing with the origins, development and nature of human and their culture. As such, it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines the various factors underlying human existence and endeavors to explain the causes that have led and continue to lead to cultural change and development (and to differences between people and cultures).
ANTABY People of the World / J. T. McFeen (and Staff)

This course is designed to provide an accurate view of the lives of peoples in continents in various parts of the world. Emphasis is given to the cultures rather than their common features. This course will cover the human features of primitive groups, the modern features of ancient groups, and the ancient features of contemporary groups. Communities: their survival and change, ideals and evils, group and witchcraft. Mobility: recruiting of crews for fishing, mining and exploration; leader and followers. Stability: community patterns, houses and environments. Temples: Expressiveness: variations in humour, origin myths, oral and mass media; drama. Exchanges: gifts, money and credit, reputation, curing, secrecy, partners & friends; Process: infancy, childhood, being adult and aged; universal relations between men and women. Power: chiefs, kings, priests, shamans, sorcerers. Reading: disease and curing, theories of the universe, spirits, savants and shamans, revitalization movements. There will be lectures and discussions, slides, motion pictures and demonstrations. Papers or research projects and final examination in spring will be required.

Exclusion: ANTHO
Session: Winter Day

ANTBIF Ecological Anthropology / H.B. Schneider

The interrelationship of human populations with their environment, particularly as reflected in differences in technology, socio-political organization and ideology. Emphasis will be placed on the view which sees variability in human behavior as the product of adaptation and evolutionary change.

Exclusion: ANTHO
Prerequisite: ANTH 10
Session: Winter Day

ANTBY Agricultural Study of Religion I / C. Hopen
A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos, of social actions, rights and obligations arising out of human dependence on such beings and of magic, curing, witchcraft and sorcery. The course is concerned with the anthropological study of supernatural beliefs in small scale societies. Topics covered (time permitting) will be: the origin and function of religion; symbols; myth; rituals; shamanism; magic; witchcraft; divination; death, ghosts, ancestor cults; and dynamics in religion. Seminar; one two-hour session per week. Some combination of essays and/or examinations.

Prerequisite: ANTH 10
Session: Winter Evening

ANTBY Anthropological Perspective I / J.W. Astylesheet
The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact.
Special emphasis will be placed on social dynamics and focus on Latin America.
Session: Winter Evening

ANTBBS Social Anthropological Study of Africa / C. Hopen
After a review of certain cardinal social and cultural background features of the continent, a more intensive study of comparative religion will be made. Hopefully, guest lecturers will help round out the perspective.
This will be a study of the major institutions of African society, their ecology, economic, religious and domestic organizations. Seminar: one two-hour session per week. Some combination of essays and/or examinations.

Prerequisite: ANTH 10
Session: Winter Day

ANTBIF Background to Modern Archaeology
An introduction to the history and theory underlying modern archaeological methods and interpretations - and perhaps some insight into the "Romance of Archaeology" - through the medium of original literature and site reports. The course reviews major trends in the development of prehistoric archaeology as a scientific discipline in both hemispheres.
Prerequisite: ANTH 10, or permission of instructor
Session: Winter Day
ANTB143 Human Evolution
An analysis of the phylogeny of man. The origins and controversies that form the theoretical framework to the understanding of fossil evidence. Readings substitute for a single text. Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil case materials.
The course evolves an analysis of the rise of evolutionary theory through natural selection, the development of genetic theory and the eventual rise of the synthetic theory of evolution. A brief survey of the evolutionary development of vertebrates, a survey of primate fossils and presumed evolutionary directions. Finally the major portions of the course dealt with a survey of the discovery of hominid fossils and attempts to synthesize a meaningful interpretation out of what is presently known concerning human origins. The course compares a range of societies, moving in scale from the bands of hunter-gatherers, through kinship organized societies.
The course requires attendance at all laboratory sessions, the submission of a laboratory report, and the completion of an examination of the four prehistoric cultures included in the course.
Prerequisites: ANT310 or ANT315 is recommended.
Session: Winter Day

ANTB153 Introduction to Physical Anthropology / F. D. Burtin
A survey of the human place in nature: origins (Paleolithic and ongoing evolution) (Spring). Basic to the course is an understanding of the prehistoric evolution of man and the processes, principles, evidence and application of the theory. Laboratory projects include the student with the methods and materials utilized by the Physical Anthropologist.
Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primates biology, social organization and behavior of non-human primates, taxonomy and classification, paleoanthropological principles and human evolution.
Prerequisites: ANT310 or ANT315 or Permission of Instructor
Session: Winter Evening

ANTB165 The Cultures of Modern Canada / S. Hills
A study of contemporary cultures in Canada. Indigenous groups (Inuit Metis and Inuit), and formerly indigenous groups, both rural and urban, will be treated in the same general framework. The course will attempt to place local and regional ethnic groups and sub-cultures in a national and economic context. A range of cultural and regional groups will be considered to illustrate the adoption of these groups to the local contemporary social setting and to the wider contemporary Canadian setting. Case studies will include agriculturally-based religious communities, selected urban ethnic groups, French Canadian communities, Newfoundland Inuit communities, and Native Canadians. One two-hour lecture and one one-hour discussion per week. Evaluation based on assignments and final exam.
Session: Winter Evening

ANTB185 Economic Anthropology / R. W. Shirley
A consideration of comparative economic systems in ecological and adaptive perspective, and of the nature of methods of production as a developmental process and its relation to local societal frameworks. The course examines cross-cultural systems of production, redistribution, and market exchange, with attention given to the production and use of material objects in influencing cultural environments, and to the effects of change on the ideologies surrounding these objects as products of specific environments. The marketplace is used as the focus for studying these features. Two one-hour lectures and one one-hour seminar discussion session per week. Evaluation is based on some combination of essays and/or examinations.
Prerequisites: ANT310
Session: Winter Day

ANTB194 Introduction to Social Organization / M. Lombré
An analysis of kinship to anthropology. What is the relationship of kinship to family, to social structure and to ethics, as they relate to the development of the concept of a family through the development of social organization? An attempt to understand the significance of kinship organisation in various societies.
Prerequisites: ANT310
Session: Winter Day

ANTB195 North American Background to Canadian Native Peoples / S. Hill and T. M. Freul
A survey of the background to Canadian Native Peoples from a Native perspective. The course will examine the forces that shaped Native Peoples, the origins and development of Native Peoples, the role of the Euro-American settlers in Native Peoples, and the impact of the contact period on Native Peoples. Evaluation will be based on a combination of essays and examinations.
Prerequisites: ANT310
Session: Winter Day

ANTB212 Primate Behaviour / F. D. Burtin
A general review of primate behavior in ecological setting. Emphasis will be placed on primate societies and on the nature of the social mechanism involved.
Prerequisites: ANT310 or PSY300 or BIOL410
Session: Winter Day

ANTB230 Introduction to Prehistoric Archaeology / J. R. Schroeder
A course in prehistoric archaeology that explores the development of human societies and cultures through the study of prehistoric artifacts, remains, and environments. The course emphasizes the study of prehistoric human societies and cultures through the examination of archaeological evidence. The course emphasizes the study of prehistoric human societies and cultures through the examination of archaeological evidence. The course emphasizes the study of prehistoric human societies and cultures through the examination of archaeological evidence.
Prerequisites: ANT310
Session: Winter Evening

ANTB281 The Prehistoric Archaeology of Canada / M. Latta
A survey of the various artifacts and their development of the science of archaeology in Canada. An attempt to understand the significance of prehistoric artifacts and their relationship to the development of human societies.
Prerequisites: ANT310
Session: Winter Day
ANTR38W Language and Culture
This course provides a background in Anthropological linguistics, emphasizing a basic knowledge of linguistic systems, and the relationships of these systems to other cultural systems. The course concerns the relationship of linguistic structure to the cultural systems, emphasizing data from non Indo-European languages. Topics covered include language in the context of cultural systems and the importance of linguistics data to the study of history and prehistory.
Prerequisites: ANTHA1 OR ANTHB1 and ANTHB2
Session: Winter Day

ANTR41S Pre-Industrial Technology
A survey of the diverse techniques that have shaped the objects of human "material culture", with emphasis upon the nature and scope of technological changes in preindustrial societies.
Prerequisites: ANTHA1, ANTHB1 or ANTHB2
Session: Winter Day

ANTR43Y Physiological Anthropology
This course is designed to give the students an understanding of physiology in the ecological setting, i.e. the relationship and systems and the interrelationship of these two areas. An anthropological approach to physiology. Specific topics include: introduction to basic physiology, physiological systems, reproduction, vision, analysis and evaluation of the impact of deafness on human societies.
Prerequisites: ANTHA1 OR BIOL101
Session: Winter Day

ANTR48S Evolution and Childhood
A survey of selected communities with respect to a number of questions: Are some cultures "harder" period of childhood, in the extent to which younger human beings become computer in adult skills, ideas and experiences. We will also involve ourselves in the expressive media by which children express their creative activities through dance, art, drama, play and games.
Method of evaluation: one essay, one test, each 50%.
Prerequisites: ANTHA1 or permission of instructor
Session: Winter Day

ANTR49Y Human Osteology
The course emphasizes structure and function in the human skeleton. The biology, and the osteometric as well as the phylogenetic development of skeletal elements is treated biologically. Preliminary studies in this area are considered. The course is oriented toward practical procedures and laboratory sessions, and is designed to acquaint students with the systemic and functional aspects of morphological structure. It will deal with phylogenetic and developmental aspects of the human skeleton. Lecturers will emphasize theoretical issues, while laboratories will stress practical aspects. One one-hour lecture session, and one two-hour laboratory session per week.
Prerequisites: ANTHA1 or BIOL101; ANTHB1 and ANTHB2 are recommended
Session: Winter Day

ANTR51Y Medical Anthropology
The examination of health and disease in sociocultural and ecological perspective. Emphasis is placed on understanding of factors in disease and the social control of disease.
Prerequisites: ANTHA1
Session: Winter Day

ANTR52Y Field Methods in Historical Archaeology
A course in the techniques of field work in archaeology. Special techniques and problems with intensive experience in an actual site situation.
The course will be offered during the summer. Since it will be necessary for students to live within commuting distance of the site, interested individuals should contact the instructor for details and arrangements. These six weeks of full-time excavation will be carried on under the joint guidance of Scarborogh College and Parks Canada, with lectures and field trips to be arranged.
Prerequisites: ANTHA1, ANTHB1; HIST304 is recommended as well
Session: Summer Day

ANTR53Y Classification and Material Culture
The course deals with the use of the most widely used classification systems for stone, ceramic, and other materials in the Old World and North America. The objective is to gain a practical understanding of the use of these classification systems with a view to the study of material culture at Scarborough College. The theory behind classification and its relevance to modern technological research will be considered. Classification is basic to anthropological analysis, and a thorough knowledge of existing classification systems is essential for any student planning advanced work in archaeology or museum.
Prerequisites: ANTHB2
Session: Winter Day

ANTR57F Analysis of Archeological Material
This course involves in-depth examination of two major classes of material culture: ceramics and glass. Students will develop analytical skills through construction and study of artifacts in order to reconstruct cultural processes.
Prerequisites: ANTHA1, ANTHB1, or ANTHB2
Session: Winter Day
ANTC41Y  
Native Peoples of Canada  
A specialized study of anthropological and theoretical problems of native Canadian cultures.

The first term will focus upon traditional cultures with special emphasis on the ethnographic era. The second term will concentrate upon contemporary native cultures and their adjustment to Euro-Canadian society. Case examples illustrating the complex relationship between native cultures and the dominant society will be drawn from different parts of Canada. Two hours per week for lectures and one hour per week for discussion. Evaluation based on a combination of essays and exams.

Exclusion: (ANTB42)  
Prerequisite: ANT A01 and one B-level course or permission of instructor

Course: Winter Day

COURSES NOT OFFERED IN 1980-81

ANTB07S  Corporative Slavery  
Prerequisite: ANT A01

ANTB10S  Cultural Ecology: A Diachronic Perspective  
Prerequisite: ANT A01

ANTB11F  Pleistocene People: The Archaeology of Hunter-Gatherers  
Prerequisite: ANT A01. ANT B03 is recommended.

ANTB12S  Prehistory of the Yucatan  
Prerequisite: ANT A01. ANT B03 is recommended.

ANTB17S  Complex Societies  
Prerequisite: ANT A01

ANTB18Y  Cultural Evolution  
Prerequisite: ANT A01 or permission of instructor

ANTB22Y  Comparative Mythology  
Prerequisite: ANT A01. A course in Sociology or Geography or Psychology or permission of instructor.

ANTB27Y  Archeological Methods and Materials  
Prerequisite: ANT B03  Corequisite: ANT E23

ANTB31Y  Urban Anthropology  
Prerequisite: ANT A01

ANTB37S  Prehistory of Mexico and Mesoamerica  
Prerequisite: ANT A01

ANTB39P  Prehistory of North America: North of Mexico  
Prerequisite: ANT A01

ANTB40Y  Anthropological Demography  
Prerequisite: ANT A01; ANT B15 is recommended.

ANTB43S  Quantitative Methods in Anthropology  
Exclusions: ECOB22, ECOB11, PSYB07  Prerequisites: ANT A01; ANT B15 and ANT B26 are recommended

ANTB46S  Enculturation and Childhood  
Prerequisite: ANT A01 or permission of instructor

ANTB49S  Law and Society  
Prerequisite: ANT A01 or permission of instructor

ANTB80F  Fact and Fiction in Archaeology  
Prerequisite: ANT A01

ANTC20F  Systems of Thought  
Prerequisite: At least B-level course in social Anthropology

ANTC11Y  The Anthropology of Women  
Prerequisite: One B-level course

ANTC9Y  New Perspective on Human Origins  
Prerequisites: ANT B14 or ANT B15
Astronomy

Discipline Representative: P. P. Kronberg

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is essentially man’s attempt to gain an understanding of his place in the universe, ranging from the planetary before men walked the earth. Within the past ten years have come astronomical observations which complex molecules in the interstellar medium of our galaxy. The implications of these and other discoveries for man and his world are profound.

The full range of astronomical topics is covered at an introductory level in AST 201 for science students, and AST 202 for non-science students. A selection of astrophysical topics is dealt with at a more advanced level in AST 301 and AST 302. IPAC 303 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

With the College's acquisition in 1982 of a modern 1-meter telescope equipped with a photometer and spectrometer, a new astrophysics laboratory course AST 202 will be introduced, which is based on astronomical observation by the students using the new telescope.

Specialist Programme in Astronomy and Physics

Supervisor: P. P. Kronberg

Astronomy and astrophysics research occupy a prominent place in modern frontier research in physical science. Likewise research and other activities in space will occupy an increasing important place in the endeavors of the individual nation. The aim of the Astronomy and Physics Specialist Programme described here is to prepare the graduate for a postgraduate study of astronomy and astrophysics at the research level, or for a further career in space-related activities in industry or government.

Modern astronomy draws extensively on the fields of physics and mathematics. In order that the Advanced Mathematics courses be available, the early choice of Mathematics courses is crucial. Those students acquiring the necessary background in astronomy, physics, and mathematics, will be in a position to consider further study of astronomy at the research level.

There are fifteen full-course equivalents prescribed out of a total of twenty courses overall. Students are advised to choose their other courses after consultation with the Supervisor, particularly at the fourth year level, where there is a degree of choice depending on the student’s future plans.

First year:

**PHY 101Y**
Principles of Physics

**MAT 136Y**
Calculus with Linear Algebra

**AST 102Y**
Introductory Astronomy and Astrophysics

Second year:

**PHY 105Y**
Electricity and Magnetism I

**PHY 106Y**
Waves and Optics

**PHY 107Y**
Quantum Physics I

**PHY 108Y**
Special Relativity

**PHY 109Y**
Thermodynamics

**AST 201**
Astronomy Laboratory

**MAT 138Y, B10S**
Calculus of Several Variables I, II or

**MAT 180Y, B15S**
Analysis I, II

Third year:

**PHY 201Y**
Quantum Physics II

**JMC 125S**
Chemical Mechanics

**JMC 126F**
Electricity and Magnetism I

**JMC 127F**
Electricity and Magnetism II

**MAT 101Y**
Differential Equations I

**MAT 102Y**
Complex Analysis I

**AST 202**
Topics in Astrophysics

Fourth year:

**IPAC 202Y**
Relativity and Cosmology

**AST 203Y**
Research Topic in Astronomy

**AST 204Y**
Elementary Particle Physics

**PHY 330H**
Introduction to Nuclear Physics

or

and one of

**PHY 455**
Modern Optics and Radiation

**PHY 457**
Quantum Theory

**PHY 456**
Statistical Mechanics

**PHY 454Y**
High Energy Physics

**Major Programme in Astronomy and Physics**

Supervisor: R. C. Border

Modern Astronomy and Space Research are closely connected with a wide range of topics in Physics and Mathematics. See also the description of the Specialist Programme.) The Major Programme in Astronomy and Physics covers a "core" of basic courses in these two disciplines. The Programme described below consists of eight full courses (or equivalent), and is suitable for combination with other courses in Chemistry, Computer Science, Mathematics or Biological Sciences.

1. In the first year of full-time study for equivalent:

**PHY 102Y**
Principles of Physics (or **PHY 102Y** for **PHY 102Y** for Life Sciences I)

**MAT 132Y**
Calculus with Linear Algebra (or **MAT 132Y**)

2. In the second year of full-time study (or equivalent):

**PHY 107Y**
Electricity and Magnetism I

**PHY 108Y**
Waves and Optics

**PHY 109Y**
Quantum Physics I

**ASTR 201**
Astronomy Laboratory

**MAT 138Y, B10S**
Calculus of Several Variables I, II or

**MAT 180Y, B15S**
Analysis I, II

3. In the third year of full-time study (or equivalent):

**ASTR 202**
Topics in Astrophysics

One additional full-course equivalent from **PHY 201Y**, **B01F**, **B06F**, **C07F**, **C08F**, **C09F**, **T20CH**

**ASTR 203**
Astronomy: Exploring the Universe (P. P. Kronberg and R. C. Border)

In this modern look at the universe an appreciation of the techniques and implications of astronomical observations is developed through an application of fundamental physical concepts to the astronomical setting. The material discusses the observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the distant reaches of quasars, from the wavelength of the interstellar space to the nuclear interior of stars in a dwarf star. From the quiet life of a star like the sun to the eventful life of a star like the sun. The material is designed to provide the student with a basic understanding of the universe, its origins and its future, and to appreciate the role of human thought in understanding the universe.

**Prerequisites:** Grade 13 Physics, Grade 13 Functions and Relations

**Senior: Winter Day**

**AST 204Y**
A Survey of Astronomy, its Recent Development and Significance (R. C. Border and P. P. Kronberg)

A basic science course for non-science students, which surveys all aspects of the extraterrestrial universe. Theories of the evolution of the solar system, stars, and the universe are presented. Recent evidence for the possibility of life on other worlds is reviewed and explored; the nature of stars and black holes, galaxies, clusters of galaxies and quasars is discussed and consideration is given to theories of cosmology and of the origin of the universe.

It is shown how man's changing understanding of the wider universe around him is interwoven with the history of science and natural philosophy. With this background, and a description of what has
recently been learnt about the universe, the impact and long-term significance of mankind’s expansion into space are discussed. In addition to lectures, there is a one-hour tutorial per week. This is supplemented by a planetarium demonstration and a visit to the David Dunlap Observatory. Using the College’s telescopes, students also have an opportunity to observe the night sky and to take their own photographs of celestial objects if they wish.

The course will describe all aspects of the extra-terrestrial universe and the methods used, past and present, to explore it. The first portion of the course will emphasize the historical context in which our knowledge of the universe has developed, and the latter part of the course deals with present and future investigations of the universe, some of its possible economic and even “philosophical” implications. At the end of the course time will be devoted to exploring the various interrelations between current technology and both space and ground experiments. The course consists of two lectures and one tutorial per week. An essay will be required. Evaluation is 50% for exam and term tests and 50% for essay and tutorial exercises.

Session: Winter Day

ASTROB1Y Topics in Astrophysics: Origins and Evolution / P.G. Martin

Theories and observational evidence related to the origin and subsequent evolution of astronomical objects and the development of intelligent life in the universe. The course will consist of five topics: the origin and evolution of the universe as a whole, of the galaxies, of the stars, of the solar system, and a study of the conditions for and possibilities of other life in our Galaxy. The course is devoted to preparing the theoretical and observational evidences relating to the origin and evolution of astronomical objects and the development of intelligent life in the universe. Students are given a comprehensive introduction to the subject, the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the basis of knowledge thus gained the possibility of extraterrestrial planetary systems is discussed; the question of the origin of life is considered in the context of recent discoveries of complex molecules in the interstellar medium. The course will be taught through a series of lectures and a tutorial per week. Evaluation is 50% for biweekly assignments, 15% for final term test, 35% for term paper and 35% for the final exam.

Prerequisites: PHY402 or PHY401 or PHY403; MATA26 or MATA55

Session: Winter Day

ASTROB2Y Practical Astronomy

Practical experience in astronomical photography, spectroscopy and photometry using the College telescopes. The methods of astronomical photography, spectroscopy and photometry will be studied. Experimental work specifically related to obtaining data from observations with Scarborough College’s new 12 inch Questar will be emphasized. Photographic, spectroscopic and photometric equipment will be available for students during time suitable to individuals for observation in their own project.

This course is intended primarily, but not solely, for students in the major and Specialist Programme in Astronomy and Physics.

Prerequisites: ASTROB1Y and PHY401 or PHY402 or PHY403 and MATA55 or MATA57

Session: Winter Day

ASTROB3H Research Topics in Astronomy / P.P. Kronberg, P.G. Martin, R.C. Roeder

An all year half course in which the student will do research on some topic of current interest in astrophysics and write a report ("mini-dissertation") on his work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-dissertation will be submitted to the instructor. For more detailed information see Professors Kronberg, Martin, or Roeder. The bibliography is dependent upon the topic selected. Evaluation is 75% for thesis and 25% for discussion and oral summary.

Prerequisites: ASTROB1Y or ASTROB10; PHY401; permission of instructor

Session: Winter Day

JPAC80Y Relativity and Cosmology

A brief review of the special theory of relativity and of the mathematical background of general relativistic field equations in free space and in the presence of matter, gravitational radiation, cosmological theories and observations.

This course may not be offered in jPAC80Y: Core: Divisional Office or Astronomy discipline representative.

Exclusions: AST401; PHYS108H

Prerequisites: PHYS101; JPHC42; PHYS108H would be desirable

Session: Winter Day

BIOL10Y Core and Specialist Programme in Biology

The course will be taught through a series of lectures and a tutorial per week. An essay will be required. Evaluation is 50% for exam and term tests and 50% for essay and tutorial exercises.

Session: Winter Day

BIOL10Y Core and Specialist Programme in Biology

Associate Chair: G.F. Lushchak

From its early beginnings as a descriptive science, biology has developed particularly in the last few decades, into a sophisticated experimental science employing other basic sciences such as chemistry, physics and mathematics. Modern biology includes the study of structure and function of all living organisms, including man. Within biology, various core areas may be distinguished: morphogenesis and structure (anatomy), anatomy, physiology, biochemistry, genetics and evolution, ecology. In addition to their fundamental significance, certain of these areas are central to understanding and solving many problems currently confronting mankind.

Two Programmes in Biology are offered. (1) The Specialist Programme: for students wishing to concentrate in the biological sciences. This Programme covers core areas of Biology and a number of advanced courses in chosen disciplines. (2) The Major Programme: for students interested in Biology but wishing to combine it with other areas of interest.

A guide to recommended course patterns in Biology and related subjects is contained in a brochure (Biology at Scarborough) which is available in Student Services, in the office of the Chair of Life Sciences, and of the Associate Chair (Biology) or Supervisor of Programmes.

Supervisors and other staff members should be consulted if you have questions about your Programme in Biology.

Specialist Programme in Biology

Supervisor: G.F. Lushchak

This Programme must include the following four core-fall-course equivalents:

1. BIOH80Y
2. At least one full-course equivalent from each of the following core areas:
   a. Genetics and Evolution: BIOBI80Y, BIOBI81Y, BIOBI82Y
   b. Physiology and Biochemistry: BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y
   c. Ecology and Environmental Studies: BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y
   d. Morphology and Taxonomy: BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y

3. Five other full-course equivalents in Biology, unspecified. These must include at least one full-course equivalent at the C-level and the plant sciences, e.g. BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y, BIOBI80Y. These five courses may include courses offered on other campuses of the University of Toronto subject to the general regulations (cf. p. 34 of 1980-81 Calendar). For a list of approved courses for this purpose, consult the Life Sciences Divisional Office.

4. Three courses in relevant disciplines:
   a. CHMI80Y
   b. PHYS108Y or PHYS108Y
   c. Any one of the following: MATA22Y, MATA55Y, or MATA55Y

One course from each of the above groups must be taken.

5. One full-course equivalent from selected offerings in Humanities or Social Science. A list of courses from which one is to be chosen is available in the office of the Supervisor or the Divisional Office.

A list of courses particularly suitable as options in the Biology Specialist Programme is also available in the office of the Supervisor or the Divisional Office.
Courses in Humanities or Social Sciences required for a Specialist Programme in Biology: ANTRB15, ANTRB25, ANTRB27, ANTRB29, ANTRB47, ANTBR17, JMBRP50, JMBRP55, HUMCH1, PHILB71, PHILC15, SOCRB11, SOCRB14, SOCRB23.

Courses considered suitable as options: ANTRB15, ANTRB25, ANTRB27, ANTRB29, ANTRB47, ANTBR17, JMBRP50, JMBRP55, HUMCH1, PHILB71, PHILC15, SOCRB11, SOCRB14, SOCRB23.

Students are referred also to the following Programme listed under Chemistry: Specialist Programme in Chemistry and Biochemistry.

Major Programme in Biology

Supervisor: D.D. Williams

This Programme must include BIOA09 and any six full-course equivalents of the 'B' level courses offered by the Biology section of Life Sciences at St Andrew's College, with the following restrictions:

1. At least one full-course equivalent must be in plant sciences and one in the animal sciences.
2. At least one full-course equivalent from each of groups 2A, 2B, 3A, and 4A above.
3. Courses required as pre- and co-requisites for any of the above courses which are not offered as Biology courses may be considered as one of the seven required for a Major Programme in Biology. This relates specifically to Biochemistry which has a Chemistry course as a prerequisite.

The requirements for the Specialist Programme in Biology include courses in Mathematics, Physics, Chemistry and a non-science course (see above). Thus a simple addition of several Biology courses will not satisfy the requirements for the Specialist Programme in Biology.

Students are referred also to the following Programme listed under Chemistry: Major Programme in Biochemistry.

BIOA09 Introductory Biology

The Faculty

This course is designed for students who intend to pursue further courses in Biology, or other Natural Sciences. It offers a thorough consideration of basic biological concepts as they pertain to both plants and animals. Lectures will emphasize the energetics of living systems, the transmission and functions of genes, integrative functions and the origin and evolution of life. Laboratory and discussion periods will supplement the lecture material.

Specific topics include: the chemical constituents of cells; cell structure and function; inheritance; the structure and function of genes, early developmental processes, mechanisms of development; cellular metabolism; photosynthesis; molecular basis of muscle contraction; basic ecology; the nerve impulse; function of the nervous system; evolution. There will be two one-hour lectures and one one-hour laboratory per week. Evaluation will be based on three one-hour lecture examinations, two one-hour examinations based on laboratory material; one practical laboratory test; one final examination.

Exclusion: Not open to students who are taking or have taken NSC403.

Session: Winter Day

BIOB2Y Basic Microbiology

J. J. Silver

The general properties of bacteria, fungi and viruses, their structure, function and relationship to man, employing selected organisms to demonstrate their significance in industry, research and the health sciences. The latter part of the course presents a survey of bacterial and viral viruses, and aspects of pathogenicity and immunity. Laboratories include practical training in basic microbiological techniques.

To gain awareness of the world of microorganisms, their physiology, genetics, structure, and importance in medicine, industry and ecology. To obtain proficiency in the handling and growing of microorganisms in the laboratory. To introduce microbiological techniques used in industrial, hospital and basic research laboratories. One two-hour lecture and three hours of laboratory work each week. Lecture 40%, laboratory 40%.

Session: Winter Day

BIOC05Y Genetics

M. F. Plantes

A lecture and laboratory course in basic genetics and cytogenetics, with examples chosen from work on bacteria, fungi, Drosophila and vertebrates, including man.

Mendel's principles, linkage, mapping, assignment of genes to chromosomes, structure of gene, genetic control of protein synthesis, regulation of gene activity, chromosome structure, mutation, cytoplasmic inheritance. Lectures, laboratory work, problems, discussion. Four hours of examination based on lecture and laboratory work. Laboratory reports - approximately 70%. Final examination - approximately 30%.

Session: Winter Day

BIOC06Y Plant Physiology

J. G. F. Israelachvili

A basic lecture and laboratory course on the general physiology of plants.

The green plant as a functional organism; water and salt uptake and translocation, water loss; mineral nutrition, carbohydrate, protein and lipid metabolism. Entomology. Photosynthesis and respiration. Growth and development of plants. The objectives of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work. Laboratory exercises: three one-hour tests based on lecture material; three one-hour tests based on laboratory material; one three-hour examination.

Session: Winter Day

BIOC08Y Invertebrate Zoology

D. D. Williams

A general survey of the invertebrate animals with emphasis on the groups of numerical, economic and medical importance.

The first term will deal with the non-arthropod phyla (Protozoa - Urochordata) and will involve classification and study of diversity within groups, with emphasis on functional morphology and evolution. The second term will be devoted to the Arthropods and will include the ecology and behaviour of interesting groups. Living specimens and technical films will form an important part of laboratory work. Two one-hour lectures and three hours of laboratory work per week. One field trip. Written and practical examinations, term test, one essay, laboratory reports.

Session: Winter Day

BIOC11Y Animal Population and Evolution

I. Campbell

A study of the patterns of heritable changes in animal populations with special regard to population genetics, population dynamics and species diversity.

The lectures deal with genetic variation and its source, natural selection, genetic drift, and modes of speciation. The laboratory consists of problems in population genetics and the discussion of current literature on evolutionary and population topics. Evaluation will be based on four tests, sixteen problem sets and one major project.

Session: Winter Day

BIOC12Y Fundamentals of Ecology

J. R. Davis

The course will deal with the scientific study of the interactions that determine the distribution and abundance of organisms. It is intended to promote the development of an ecological conscience but will not be a course devoted to the problems of pollution and populations.

Focusing on the scientific discipline of ecologists such as organisms, behavior, and dispersal, attributes of populations: population estimation, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions: competition and predation; theories of population regulation; ecological genetics and evolution; attributes of communities: concept of the community, species diversity, community patterns and classifications, succession and climax, concept of the ecosystem, biomes of the world, community energetics, community nutrition, other topics of general ecological interest including the human population problem, island biogeography, and systems analysis.

Session: Winter Day
BIO98Y Aquatic Systems / J. Nabawejjye (Sparling), D.D. Williams
A lecture/seminar course with optional field work, on the ecology of ponds, lakes and rivers, with special reference to energy transfer in these ecosystems.


Bionomy: Warren, K.G. Limnology. Hynd, J. B. E. Ecology of Running Waters. There will be two tests (35%), essays and reports of field/laboratory work (35%). Objectives: to become familiar with physical, chemical and biological characteristics of aquatic systems.

Prerequisites: BI0A03 and at least one BIO1-Y Biology course.
Session: Winter Day

BIO98T General and Comparative Physiology / C.K. Girod
The function of cells of the and of the organism systems which have evolved to control the environment of the individual cell within the organism. Topics include: (a) Body fluids and circulation. (ii) Ionic and electrolyte balance. (iii) Excretion. (iv) Gas exchange. (v) Nerve and muscle physiology.

The function of cells and of the organism systems which have evolved to control the environment of the individual cell within the organism. Topics include: (a) energy transfer; (i) protein synthesis, (ii) carbohydrate metabolism, (iii) lipid metabolism, (iv) nucleic acid metabolism. The last term covers the cardiovascular, respiratory, renal, and endocrine systems. A Seminar in the second term.

Prerequisites: BI0A03
Session: Winter Day

BIO98S Biology of Macromolecules / J.R. Brown
The basic concepts of the fundamental role of the gene - key experimental observations. Main topics will be mechanisms of gene replication and regulation of gene activity in higher and lower organisms. Students will receive laboratory experience in the use of a range of molecular biology techniques.

This course is divided into two sections. The first deals with the structural and replication of DNA. The second concentrates on RNA and protein syntheses. Laboratory activities include: (i) purification of DNA and RNA; (ii) isolation of DNA and RNA; (iii) DNA-RNA, DNA-DNA, RNA-RNA associations; (iv) purifications and gel electrophoresis of chromosomal DNA; (v) course is suitable for third and fourth year students.

Lectures and laboratory work. There will be two lecture tests, two lab tests and lab reports.

Prerequisites: BI0A03
Session: Winter Day

BIO82E Cell Ultrastructure / R. Dalglish, J. Youson
This cell biology course deals with current concepts of animal and plant cell ultrastructure and function of cell organelles. Laboran
tory work emphasizes the interpretation of cell components as they appear in electron micrographs.

Topics include: (i) general methods used in the biological application of electron microscopy; (ii) electron microscopy and cell surface, and (ii) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc. Lectures and laboratories. Evaluation will be based on take-home examinations; one take-home examination, one take-home examination.

Prerequisites: BI0B13 or BI0B14 or BI0B27

Session: Winter Day

BIO82Y Comparative Vertebrate Morphology / A. Weatherley, R. Webb and J.H. Youson
A lecture and laboratory course dealing with the structural diversity of the vertebrates. Emphasis is placed on the evolution, development and anatomical specializations of organized systems as they are related to the physical demands placed upon the organism by its environment.

Begins with the primitive vertebrate ancestor, this course considers the comparative anatomy of the modern classes and orders with both evolutionary and embryological viewpoints. Emphasis is given to those aspects which have led to the anatomical and physiological diversity of the modern vertebrates, an examination of practical work includes the dissection of representative vertebrates. Lectures and laboratories. Examinations on lectures (50%) and laboratory materials (50%).

Session: Winter Day

BIO223Y Developmental Biology / I.R. Brown and R. Dalglish
The study of developmental change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a wide variety of organisms ranging from the multicellular to the multicellular. Particular reference will be given to the concept of the development of gene activity which is fundamental to developmental biology. Limited enrolment: 100.

In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed: amphibians, lens development, spermatogenesis, early development. In the latter half of the second term R. Dalglish discusses aspects of plant development. Some of the topics dealt with in this portion of the course are: examination of developmental mechanisms in plants and animals, morphogenesis of fertilized eggs in plants and animals, the role of cell division and cell enlargement in the development of plant systems. Lectures and laboratory work. Lecture and laboratory examinations.

Prerequisites: BIO0A3
Session: Winter Day

BIO214Y Plant Kingdom / R. Dalglish
Evolutionary relationships between the major groups of plants are examined through a comparison of vegetative forms, reproductive structures and life histories of selected living and fossil organisms. The first term deals with the comparative morphology of the nonvascular plants, fungi, algae, ferns and bryophytes. The second term covers the vascular plants, club mosses, spike mosses, quillworts, horsetails, lichens, gymnosperms and angiosperms. Particular emphasis is given to the angiosperms, ferns and seed plants. Lectures and laboratory examinations. Final examination.

Prerequisites: BI0A03 Session: Winter Day

BIO217Y Comparative Vertebrate Histology / J. Youson
The structure of the cells, tissues, and organs making up the major body systems of a variety of vertebrates as revealed through the light and electron microscopes. Differences and similarities of body systems will be discussed from the perspectives of evolution, development, and function. Each student will be required to do an individual microtome project.

First term: methods used in the preparation of tissue for examination in the light microscope and a description of the various tissues of the body (epithelium, connective tissue, nervous tissue, etc.). Second term: the relationship of the above tissues in the organ systems, trunk, digestive, respiratory, excretory, reproductive, and endocrine systems. Two one-hour lectures and three hours of laboratory per week. Four laboratory exams (two per term) - 40 marks. Two lecture exams, one at the end of term - 50 marks. Major laboratory report from project.

Session: Winter Day

BIO215F Invertebrate Neurobiology / C. R. Girod
The course will examine in lectures, seminars and laboratory work, current topics in invertebrate neurobiology. These topics will revolve around the neural synaptic and molecular mechanisms underlie
ning certain neural behaviors requiring development especially in insects, crustaceans and molluscs.

One two-hour lecture per week; seminars and laboratory work to be arranged with class. Evaluation: seminars, laboratory work and final examination.

Exclusions: BI0C07
Prerequisites: BI0A03
Session: Winter Day

BIO255Y Introductory Biochemistry / G.B. Williams
An introductory course for students interested in the biomedical sciences, designed to introduce students to a broad range of biochemical topics.

Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of enzymes to the energy metabolism of the cell. The effects of hormones on cellular metabolism and function and the role of enzymes, enzymes and the role of enzymes, enzymes - genes and enzymes, enzymes - genes and enzymes, and enzymes - genes and enzymes, enzymes - genes and enzymes, and enzymes - genes and enzymes.

The teaching method will consist of two one-hour lectures per week.

Prerequisites: BI0B13, CHM085

Session: Winter Day

This course is designed for students in the biomedical sciences, and is intended to introduce students to basic concepts in biochemistry. Topics covered in the course will include: metabolism of sugars, amino acids and lipids, and the relationship of these processes to the energy metabolism of the cell. The effects of hormones on cellular metabolism and function, enzymes and the role of enzymes, enzymes and the role of enzymes, enzymes and the role of enzymes, and enzymes and the role of enzymes.

The teaching method will consist of two one-hour lectures per week.

Prerequisites: BI0B13, CHM085

Session: Winter Day
LABORATORY IN BIOCHEMISTRY

Introduction to Laboratory Techniques

This course is designed to introduce students to fundamental laboratory techniques and methods used in biochemical research. Students will be required to perform a series of experiments, including: Spectroscopy, protein purification, gel electrophoresis, enzyme assays, and data analysis.

Prerequisites: BIOL 101 or equivalent

Session: Winter

BIOL 111 - Principles of Microeconomics

This course provides an introduction to the principles of microeconomics, including supply and demand, market equilibrium, and market failures. Students will learn how economic theory can be applied to real-world economic problems.

Prerequisites: BIOL 101 or equivalent

Session: Fall

BIOL 112 - General Vertebrate Biology

This course is designed to provide students with a broad understanding of vertebrate biology, including the anatomy and physiology of major vertebrate groups. Students will have the opportunity to observe and participate in lab exercises and field trips.

Prerequisites: BIOL 101 or equivalent

Session: Fall

BIOL 113 - Plant Ecology

This course will introduce students to the ecological principles that govern plant communities. Students will learn how to describe and analyze plant communities, including their distribution, structure, and dynamics.

Prerequisites: BIOL 101 or equivalent

Session: Spring

BIOL 114 - Field Methods in Aquatic Science

This course is designed to provide students with hands-on experience in aquatic field methods. Students will learn how to collect and analyze data in aquatic environments, including water quality, fish ecology, and aquatic plant communities.

Prerequisites: BIOL 101 or equivalent

Session: Fall
BIOL10 Plant Structure and Development

BIOL20 Biogeography
Prerequisites: BIOL03 or NSCI02

BIOL50 Advances in Developmental Biology
Prerequisites: At least one of BIOL00, BIOL01, BIOL05, BIOL05B, BIOL02, BIOL07

BIOL111 Quaternary Plant Ecology
Exclusion: (BIOL03)
Prerequisites: NSCI00, BIOL01

BIOL136 Environmental Biology of Fish Populations
Exclusion: (BIOL05)
Prerequisites: BIOL03

BIOL139 Field Trip to Madagascar
Prerequisites: BIOL03, or permission of instructor and Chairmain

BIOL165 Marine Biology
Prerequisites: BIOL03

CANADIAN STUDIES

The College offers a large number of courses concerned with Canadian institutions, society, and culture, the history and history of Canada, and its geography and physical environment. The College in Canadian Studies encourages students to work in various disciplines and divisions of the College in order to understand the distinctive approaches of these disciplines to the study of Canadian life and culture.

College Programme in Canadian Studies

Supervisor: J.M.R. MacAulay

Students must select one full-course equivalent as follows:
(1) FREA01Y (or FREA09Y) followed by FREA01Y
(2) One of:
FREB06Y French-Canadian Novel to 1945
FREB07Y French-Canadian Novel since 1945
FREB08Y Theatre of French Canada
FREB04Y French Language in Canada
(3) HIS08Y Introduction to Canadian History
(4) One of the following:
ANTB05Y Cultures of Modern Canada
POLB05Y Canadian Government and Politics
ENGB0Y Canadian Literature in English
SOCB13Y Canadian Society
(5) Five and one-half further full-course equivalents or six if ANTCH8 is chosen from the preceding groups from the groups A, B and C listed below. The selection must include at least one full-course equivalent from each of the groups.

Group A
ENGB07Y Canadian Literature in English
ENGB13F* Canadian Drama in English 1900-1970
ENGB215Y* The Canadian Short Story
ENGB216Y Canadian Poetry in English
ENGB217Y Canadian Fiction in English
FARR0Y The Arts in Canada, 1607-present
FARR1Y The Canadian Landscape
FARR12Y Recent Canadian Art
FRBO1Y Language Practice
FRBO3Y French-Canadian Novel to 1945
FRBO7Y French-Canadian Novel since 1945
FRBO10Y Theatre of French Canada
FRBO11Y French Language in Canada
FRCC11Y French-Canadian Poetry

Group B
ANTB05Y Cultures of Modern Canada
ANTB11Y North American Background to Canadian Native Peoples
ANTB12Y Prehistoric Archeology of Canada
ANTB13Y* Prehistory of North America
HIS04Y Introduction to Canadian History
HISB49Y* Ojibwa History: the Nineteenth Century
HISB44Y* Canadian Religious Traditions
HISB44Y* The Theatre of the Nativist Period 1830-1850
HISB46Y* Atlantic Canada
HISB47Y* The Canadian Left, 1867-present
HISC41Y* Old Hawai'i
HISC42Y* Church-State Relations in Canada
HISC43Y* Selected Topics in Canadian Religious History
HISC45Y* History of Canadian Social, Political and Historical Thought
POLB05Y Canadian Government and Politics
POLB12Y Government and Politics in Canada
POLB13Y Canadian Constitutional Law
POLB14Y Public Policies in Canada
POLB15Y* Inter-governmental Relations
POLB06Y Public Administration
POLB11Y* Canadian Foreign Policy
POLB08Y Urban Politics
POLC05Y* Topics in Canadian Government
POLC06Y* Policy Development
SOCB13Y* Canadian Society
SOCB13Y* Mass Media and Communications
SOCB20Y* Ethnic and Race Relations
SOCB21Y* Population
SOCB22Y* Changing Family Life in Canada
SOCB23Y* Social Class in Canadian Society

Group C
ECOAIY Introduction to Economics
ECOAIY* Price Theory
ECON07Y Macroeconomic Theory and Policy
ECON07F* Economics of the Public Sector: Taxation
ECON02F* Economics of the Public Sector: Expenditure
ECON02G* Poverty and Income Distribution
ECON02F* International Economics: Trade Theory
ECON01Y* North American Economic History
COMC13Y* Income Tax
GGRB0Y Geography of Resources
GGRB0Y* Urban Geography
GGBR0Y* Local Area Studies
GGRB17Y* Rural Geography
GGRB04F* Urbanization in Southern Ontario
GGRB14Y* Settlement of Upper Canada

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### CHEMISTRY

Staff members responsible for curriculum: P. Brunner, K. Henderson, R. McClelland, A. Walker

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool through which to develop the resources of our contemporary society. The Chemistry Handbook, available at the Chemistry Office, outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the physical or life sciences.

The basic course in chemistry is CHM102 which must be taken by those who wish to take further chemistry courses or who require chemistry for another science.

Completion of CHM104 or CHM102 permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry (CHM106); Analytical Chemistry (CHM109); CHM108; Organic Chemistry (CHM105) and CHM106 and Physical Chemistry (CHM103). Thereafter, one can proceed to the following advanced-level courses: CHM104 (Inorganic), CHM352 (Physical), CHM353 (Organic) and JBC155 (Biochemistry).

For those who wish to enrol subsequently in St. George 400-series courses, completion of the following groups of courses, together with the prerequisites and corequisites, will ensure admission to the St. George courses indicated, provided that standing or permission of the instructor is obtained.

<table>
<thead>
<tr>
<th>To Enter St. George Series</th>
<th>Complete Scarborough Courses</th>
<th>420</th>
<th>CHM100A/0B; CHM101; CHM102</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete Scarborough Courses</td>
<td>410</td>
<td>CHM100A/0B; CHM101; CHM102; CHM103</td>
</tr>
<tr>
<td></td>
<td>(440 except 447)</td>
<td></td>
<td>CHM100A/0B; CHM101; CHM102; CHM103</td>
</tr>
</tbody>
</table>

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYS101 or PHYS102 or PHYS103 early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHM102, MAT1A/55 or MAT2A and (PHYS101 or PHYS102 or PHYS103).

Completion of a Specialist or Major Programme in Chemistry can lead directly to a wide spectrum of career opportunities in industry, research, teaching, and government. Students who are interested in these programmes are urged to consult with the supervisors early in their academic careers. These programmes are described below:

**Specialist Programme in Chemistry**

**Supervisor:** R.A. McClelland

This is the most general of the Specialist Programmes and provides the student with a firm basis in each of the chemistry subdisciplines.

Students should complete the following fifteen required courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM100A/0B</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>MAT1A/55</td>
<td>Calculus</td>
</tr>
<tr>
<td>PHYS101</td>
<td>Principles of Physics</td>
</tr>
<tr>
<td>PHYS102</td>
<td>Physics for Life Sciences I</td>
</tr>
</tbody>
</table>

(1) In the first year of full-time study (or equivalent):

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<tr>
<td>CHM100A/0B</td>
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</tr>
</tbody>
</table>

(2) In the second and third years of full-time study (or equivalent):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CHM100A/0B</td>
<td>Inorganic Chemistry I</td>
</tr>
<tr>
<td>CHM102Y</td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td>CHM103Y</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>CHM105Y</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHM106Y</td>
<td>Inorganic Chemistry II</td>
</tr>
<tr>
<td>CHM107Y</td>
<td>Physical Chemistry II</td>
</tr>
<tr>
<td>CHM108Y</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>MATB1F</td>
<td>Techniques of the Calculus of Several Variables I</td>
</tr>
<tr>
<td>MATB2S</td>
<td>Techniques of the Calculus of Several Variables II</td>
</tr>
<tr>
<td>MATB55S</td>
<td>Analysis II</td>
</tr>
</tbody>
</table>

**Specialist Programme in Chemistry and Biochemistry**

**Supervisor:** A.J. Kregg

This programme places greater emphasis on the biological aspects of chemistry and is offered for students who are primarily interested in chemistry but who also wish to study the chemistry of living systems.

Students should complete the following fifteen courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM100A/0B</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>BIO303Y</td>
<td>Introductory Biology</td>
</tr>
<tr>
<td>MAT1A/55</td>
<td>Calculus</td>
</tr>
<tr>
<td>PHYS101</td>
<td>Principles of Physics</td>
</tr>
<tr>
<td>PHYS102</td>
<td>Physics for Life Sciences I</td>
</tr>
</tbody>
</table>

(1) In the first year of full-time study (or equivalent):

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<td>Calculus</td>
</tr>
<tr>
<td>PHYS101</td>
<td>Principles of Physics</td>
</tr>
<tr>
<td>PHYS102</td>
<td>Physics for Life Sciences I</td>
</tr>
</tbody>
</table>

(2) In the second and third years of full-time study (or equivalent):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM100A/0B</td>
<td>Inorganic Chemistry I</td>
</tr>
<tr>
<td>CHM102Y</td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td>CHM103Y</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>CHM105Y</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHM106Y</td>
<td>Inorganic Chemistry II</td>
</tr>
<tr>
<td>JBC155Y</td>
<td>Introductory Biochemistry</td>
</tr>
<tr>
<td>JBC254Y</td>
<td>Laboratory in Biochemistry</td>
</tr>
<tr>
<td>CHM107Y</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHM108Y</td>
<td>Inorganic Chemistry II</td>
</tr>
<tr>
<td>CHM109Y</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>MATB1F</td>
<td>Techniques of the Calculus of Several Variables I</td>
</tr>
<tr>
<td>MATB2S</td>
<td>Techniques of the Calculus of Several Variables II</td>
</tr>
<tr>
<td>MATB55S</td>
<td>Analysis II</td>
</tr>
</tbody>
</table>
Major Programmes in Chemistry

**Supervisor:** K.A. Henderson

This is the most general Major Programme offered. With its wide selection of options, it offers the possibility of obtaining an introduction to all of the sub-disciplines of chemistry.

Students should complete the following eight courses:

1. **In the first year of full-time study (or equivalent):**
   - CHMA02Y General Chemistry or CHEM02V
   - MATHA2Y or MATA2V
   - MATAS5Y Calculus
   - PHYA09Y Principles of Physics or PHYA09Y Physics for Life Science I

2. In the second and third years of full-time study (or equivalent) one of the following sets of options must be taken:
   1. **Inorganic/Organic**
      - CHMB01Y Inorganic Chemistry I
      - CHMB0Y Organic I
      - CHMB01Y Inorganic I
      - CHMB02Y Analytical
      - CHMC01Y Inorganic II
      - CHMC02Y Organic II
   2. **Physical Organic**
      - CHMB01Y Organic I
      - CHMB02Y Organic II
      - CHMB03Y Physical I
      - CHMC02Y Physical II
      - MATB40F Techniques of the Calculus of Several Variables I
      - MATB42S Techniques of the Calculus of Several Variables II
   3. **Physical Inorganic**
      - CHMB01Y Physical I
      - CHMB02Y Inorganic I
      - CHMB02Y Analytical
      - MATB41F Techniques of the Calculus of Several Variables I
      - MATB42S Techniques of the Calculus of Several Variables II
   4. **"Chemistry"**
      - CHMC01Y Organic I
      - CHMB0Y Inorganic I
      - CHMB0Y Analytical
      - CHMB03Y Physical I
      - One C-Level Chemistry course*

* Students should note that if they are going to select CHMC01Y, MATB41F and MATB40F or MATB05F and MATB05S are required as prerequisites.

Major Programme in Biochemistry

**Supervisor:** K.A. Henderson

This programme places a greater emphasis on the biological aspect of chemistry than does the general Chemistry Major Programme. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.

Students should complete the following eight courses:

1. **In the first year of full-time study (or equivalent):**
   - CHMA02Y General Chemistry or CHEM02V
   - MATHA2Y or MATA2V
   - MATA5Y Calculus
   - BIOM02Y Introductory Biology
CHMS02Y General Chemistry
Nuclear chemistry, atomic and molecular structure, ionic solids, bonding in organic compounds; states of matter and equilibria of state; thermodynamics; chemical equilibria in the gas phase and in solutions; reaction kinetics. Primarily for students who plan to take two or three years of chemistry in a non-specialist science program or as part of a pre-professional program. Acceptable for Chemistry Specialist Programmes.

The course quantitatively describes the nature of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, information topics such as introductory organic chemistry are used to round out the course. The course structure is two lectures per week and one four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre. The final grade is based on problem sets, tests, a mid-year examination, a final examination, and laboratory performance.

Exclusion: CHMA01
Prerequisites: Grade 12 Chemistry or Grade 12 Chemistry and permission of instructor; Grade 13 Functions and Relations
Corequisites: MAT22 or MAT1A6 or MAT5A5
Session: Winter Day

CHMB01Y Inorganic Chemistry 1 / R.T. Hemmings
Atomic and molecular structure, including energy levels, bonding, electronegativity, lattice energies, heats of formation and hydration. Oxidation state diagrams. Chemistry of hydrides, halogens and selected topics in main group elements.
The further development of the ideas of structure and bonding introduced in CHMA01Y/CHMA02Y. The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in complex formation. The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements. The course structure is two lectures and one additional period per week to be used for supplementary or remedial work as required. The method of evaluation is tests, problem sets, and exams.
Prerequisites: CHMA01Y/CHMA02Y
Session: Winter Day

CHMB02Y Analytical Chemistry / R.T. Hemmings
Introduction to qualitative and quantitative analysis including gravimetric and volumetric analysis, electro-chemical and spectroscopic methods of analysis, separatory techniques.
To introduce the principles and methods of chemical analysis and to provide practical experience in the techniques employed in a chemistry laboratory.
The course consists of three main divisions; qualitative inorganic analysis by wet chemical methods, classical quantitative analysis and modern instrumental quantitative analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques. One hour of lectures and six hours of laboratory per week. The overall grade is a composite of laboratory performance, a final examination, and term tests and problems.
Prerequisites: CHMA01 or CHMA02
Exclusion: CHMB08
Other recommended courses: CHMB04
Session: Winter Day

CHMB03Y Physical Chemistry I / J.E. Dote and other Physical Chemistry faculty
Introduction to the kinetic theory of gases, quantum mechanics, theories of chemical kinetics and the laws and applications of thermodynamics.
The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half of the course we resort to the thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications is a wide variety of contemporary problems including spontaneous processes, chemical equilibria, phase equilibria, etc. are emphasized. The text is "Physical Chemistry" by P.W. Atkins. The course structure is three lectures a week and occasional tutorials. The method of evaluation is problem sets, tests, a mid-year examination, and a final examination.
Exclusion: PHYB09
Prerequisites: CHMA01 or CHMA02; MAT22 or MAT5A5; PHYA01 or PHYA02
Corequisites: MATB1 and MATB4 are strongly recommended but not required. See CHMC02 Physical Chemistry II, however.
Session: Winter Day

CHMB04Y Organic Chemistry I / T.T. Tabelli
The chemistry of the principal functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given.
The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. The course structure is two lectures per week and a four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre. The method of evaluation is lecture tests, mid-term and final examinations, plus a laboratory grade.
Exclusion: CHMA01
Prerequisites: CHMA01 or CHMA02
Session: Winter Day

CHMB05Y Analytical Chemistry II / R.T. Hemmings
Introduction to the use of instrumentation in chemical analysis with emphasis on practical experience.
The objective is to provide practical experience in the use of routine analytical instruments and techniques. This course introduces the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques. The course structure is one lecture and six hours of laboratory per week. The overall grade is a composite of laboratory performance, a final examination, term tests and problems.
Exclusion: CHMB02
Prerequisite: CHMB04
Session: Winter Day
CHMC05Y Organic Chemistry II  [R. McCreland]  *Introduction to the structure, synthesis, and reactivity of organic compounds of biological importance. Application of organic reactions, stereochemistry, mechanisms, and synthesis. The laboratory will emphasize the use of modern physical techniques, newer synthetic methods, and the chemistry of natural products. This course will serve as prerequisite for CHM447 (St. George) only with the consent of the instructor. This course provides further experience in organic chemistry to those who have completed one course in the subject. Topics will include an in-depth treatment of organic synthetics, stereochemistry, conformational analysis and reaction mechanisms; an introduction to polymers, photochemistry, heterocycles, terpenes, carbohydrates, amino acids, nucleic acids and related biological macromolecules. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on more advanced techniques. The course structure is two lectures, one tutorial and one laboratory every week. The method of evaluation is one-hour tests, a end-year examination, a final examination, and a laboratory grade.
Exclusion: CHM447 (St. George)  
Prerequisites: CHMB05 or CHMB06  
Session: Winter Day

CHMC04Y Library Thesis / Members of the Chemistry faculty  
A report on a selected current topic in chemistry based on literature research and carried out under the direction of one of the Chemistry staff. Approximately 260 hours of work are expected. The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. The topic will be selected in consultation with a member of the Chemistry staff. Progress will be monitored during periodic consultations with the staff member. The grade is awarded on the quality of the written work and on an oral presentation.  
Exclusion: CHMC04  
Prerequisite: Permission of instructor  
Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Specialist Programmes.
Session: Summer Day, Winter Day

CHMCH03Y Introductory Biochemistry  [G.R. Williams]  
An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics. Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids, biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed. The teaching method will consist of two one-hour lectures per week.
The text used is: *Biochemistry: the Molecular Basis of Cell Structure and Function* by A.L. Lehninger, Worth Publishers Inc. Evaluation is based on three one-hour lectures; one two-hour Christmas exam and one final exam.  
Exclusions: BIOL551, CHMB032  
Prerequisites: BIOL303, CHM065  
Session: Winter Day

CHMCH02Y Laboratory in Biochemistry  
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research. The course will introduce students to practical and theoretical aspects of techniques used in biochemical research. Experiments will introduce a range of experimental procedures: spectrophotometry; chromatography; radiolabelling; electrophoresis; protein fractionation, etc. The teaching method will consist of three hours of laboratory work plus one hour of lecture each week. No text will be required but it is suggested that students obtain a copy of *Biochemistry* by A.L. Lehninger. Students will be evaluated on their performance in the laboratory, lab reports, and examination, in a two-hour exam at Christmas and a final exam.
Exclusions: BIOL550, CHM065  
Prerequisites: BIOL303, CHM065  
Corequisites: JBCB05  
Session: Winter Day

CHMC85Y Inorganic Chemistry II  [J. Walker]  
A study of transition metal chemistry including energy level diagrams; valence bond, crystal field and molecular orbital theories of bonding; spectra of transition metal complexes; structure and coordination numbers; isomerism; inorganic reaction kinetics and organometallic chemistry. The objective of this course is to understand the structure, bonding, spectra and reactions of transition metal complexes. The course structure is two hours of lecture per week; seven hours of laboratory per week to be taken in either the Fall or Spring term. The required text is: *Inorganic Chemistry* 2nd edition by J.E. Huberty. The method of evaluation is problem sets (10%); two term tests (20%); laboratory 30%; final examinations 40%.
Prerequisites: CHM801, CHM802 or CHM806  
Corequisites: CHM808 (if only CHM806 obtained).  
Session: Lectures: Winter Day  
Laboratory: Full Term or Spring Term - One Day

CHMC84Y Physical Chemistry I  [P. Brunner]  
Quantum mechanics and its application to theories of atomic and molecular structure, and spectroscopy. Basic principles of classical and quantum statistical mechanics, statistical thermodynamics, theory of chemical kinetics and photochemistry. The laboratory associated with this course illustrates much of this physical theory and introduces advanced experimental techniques.
The first half of the course emphasizes quantum chemistry and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules are then examined through atomic and molecular spectroscopy. Intermolecular forces and modes of energy transfer between molecules ultimately lead into a study of classical and quantum statistical mechanics through which we interpret the behaviour of macroscopic systems. Finally, the behavior of chemical reactions and the dynamics of nuclear and molecular processes will be introduced. The course structure is lectures, tutorials and laboratory. The method of evaluation is 75% (50%) for three-hour examinations, term paper, and problem sets and 25% laboratory examinations.
Prerequisites: CHM803, MAT184 and MATB42, or MATB50 and MATB55  
Session: Lectures: Winter Day  
Laboratory: Spring Term - One Day
**Major Programme in Classical Civilization**

**Supervisor:** J. Corben

For the Major Programme in Classical Civilization students must complete eight full-course equivalents to be selected as follows:

1. **CLAM1Y** Classical Civilization
2. **HUMA1Y** Greek and Roman Mythology
3. **CLABOY** Greek and Roman Epic
4. **CLABCG** Greek and Roman Tragedy
5. **OR** Greek History from the Bronze Age to the Death of Alexander
6. **OR** Greek History from the Death of Alexander to the Gracchi
7. **OR** Roman History from the Gracchi to Nero
8. **OR** Three additional full-course equivalents from:
   - CLA, GRK, LAT, HUM, B2Y/S, R2Y/S, B2Y/S, B3Y/S, B6Y/S, B6Y/S, PHILB4F, PHILB4S, PHILB4P, PHILB4S, PARAB0F/S, PARAB0F/S, PARAB0F/S, PARAB0F/S, PARAB0F/S, PARAB0F/S. The selection of these must be approved by the Supervisor.

**Major Programme in Classical Studies**

**Supervisor:** M.E. Irvine (Greek)/R. McDonald (Latin)

The Major Programme in Classical Studies consists of seven full-course equivalents and may be completed in one of the following ways:

- **CLASSICAL STUDIES (Latin):**
  1. **CLA4MY** Classical Civilization
  2. **CLA3HY** Three full-course equivalents in Latin

- **CLASSICAL STUDIES (Greek):**
  1. **CLA3GY** Classical Civilization
  2. **CLA3HY** Three full-course equivalents in Greek*

Students who wish to include Latin or Greek as a component in the Language and Literature Specialist Programme must complete seven full-course equivalents as follows:

1. **Four full-course equivalents in LAT or four full-course equivalents in GRK**
2. **CLABOY or CLABCG**
3. **Two further full-course equivalents from courses in CLA, GRK, HUM, LAT to be selected in consultation with the Supervisor.**

See also the Specialist Programme in Language and Literature.
CLASS10Y Classical Civilization / A. Baddington
An introduction to the Greco-Roman World: the achievements of the Greeks and Romans in literature, philosophy, science and government.
These achievements will be set in an historical framework to enable the evaluation of ideas to be traced. The course will not merely be a survey course. Provision has been made as well for study in greater depth in carefully selected areas, with readings, in translation, from the classical authors. Students will be encouraged to choose their own topics for the two term papers which will require research in some depth.
The class will meet three times a week, mainly for lecture presentations, with a seminar every other week in the third hour. Evaluation is based chiefly on two papers (one per term) and an examination (worth 35% of the final mark).
Session: Winter Day

CLASS10Y Greek and Roman Epic / J.R. McDonald
The epic genre in the classical world: its genesis in myth and history; its cultural and artistic determinants; its place in the history of ideas and in the growth of the Western literary tradition. Close reading of Homer's Iliad and Odyssey, Virgil's Aeneid, Lucan's Pharsalia (in translation); reference also to other works and their contribution to the development of the genre.
All study of Western Literature starts with Homer. The aim of this course is to make you familiar with the texts of Homer and his successors in the epic genre, so that you may learn to appreciate them for themselves within their own cultural and historical context and begin to understand the nature of their influence on later literature. If you wish to do any reading in advance, you might start with some of the following: Homer, The Iliad (trans. R. Lattimore); G. of Chicago Press; Homer, The Odyssey (trans. E.V. Rieu); Penguin Classics p.b.; T. Craig, The Story of the Iliad; Clarke-Irvin 1964 p.b.; G.S. Kirk, The Songs of Homer, Cambridge Univ. Press 1962.
Classes will be an informal mixture of lectures and seminars. Methods of evaluation will include two essays, tests, and a final examination.
Session: Winter Day

GIR108Y Greek History from the Bronze Age to the Death of Alexander / A. Baddington
An introduction to political, economic, social and cultural aspects of Greek history.
The period will be studied, as far as possible, from the Greek authors (in translation) and attention will be given to the discoveries and method of archaeology. The course should be of interest to students of Classics, History, Archaeology, Anthropology and Political Science.
Topics will include: the Bronze Age of Greece and Minoan Crete, with some consideration of why and how these cultures rose and fell; the cultural and artistic "renascence" of the Greek world; political developments, with special reference to the nature and development of Athenian Democracy and the strange society of Sparta; the Athenian Empire and its relationships to Athenian Democracy; the rise of Macedonia and the conquests of Alexander. To consider how the Greeks viewed their own history, we shall study the Persian Wars as seen through the eyes of Herodotus, and the Peloponnesian War as interpreted by Thucydides, and at all times in our formal endeavors to pay the Greeks the compliment of trying to see them as they really were and not as we imagine them.
Session: Winter Evening

GIR109Y Greek and Roman History from the Death of Alexander to the Graeco-Roman Conquest / J. Carver
A study of the emergence and evolution of the Hellenistic Monarchies after the death of Alexander, the development of Rome as a "World Power", and the interaction of the Greek and Roman Worlds.
This course introduces the student to an important period of Classical History in which the Mediterranean world evolved from one of individual city states to the single "world empire" which was the core of the many systems characteristic of the West, especially Christianity. There will be one two-hour lecture, and one one-hour tutorial per week. All the tutorials will be led by the lecturer. The lectures will give the necessary background information and some analysis, raising questions to be considered in the tutorials. Questions and discussions will be welcomed in lectures as well as tutorials. Students will be expected to come prepared with some reading, and essays. Evaluations: essay (one per term) 35%; oral presentations (one per term) 15%; final written examination 50%. Note: A detailed Course Outline and Bibliography are available on request.
Session: Winter Day

GIR102Y Studies in Greek History I (500-300 B.C.) / A. Baddington
Politics and economies in Greek city states, texts, as far as possible, through the eyes of the Greeks themselves.
A study of the period covered by BKY, in which we look at people, places and ideas at a more specialized level. Students will be expected to study the source material in some depth, in translation. Choice of texts and paper topics will depend on the interests and qualifications of the student. The class will hold two seminar meetings a week. Evaluation is based on two major papers, a final examination on topics covered in class, and two short assignments.
Prerequisites: GIR101, or any relevant GRY, CLA or HUM course
Session: Winter Day

GIR107Y Studies in Roman History: Pompelii / J.J. Cooper
The city is central to Western society, so urban institutions have their origins in the Empire period.
This course is intended for students who have some background (not necessarily formal) in urban studies; it does not require a knowledge of ancient history. Emphasis will be placed on the study of Pompeii from primary source materials. Pompeii is a typical small Greek-Roman city, but it is also uniquely well preserved for our examination. The nature of the course will be determined by the students. A considerable degree of personal initiative will be expected.
Session: Winter Day

GKA101Y Introductory Greek / J.N. Grant
The basis of the language, with an emphasis on reading.
This course is for students who wish to acquire a basic reading knowledge of ancient Greek. The class meets four hours a week. Evaluation will be based on regular class tests and a final examination. Text: Reading Greek (JAC Cambridge, 1978).
Session: Winter Day

GKA104F Introduction to Greek Authors / M.E. Irwin
A rapid reading of simple Greek texts combined with a consolidation of grammar.
This course is intended to help students review classical Greek grammar in preparation for reading texts. There will be three one-hour meetings weekly, one given to review of syntax and forms and the other two spent in reading selections from ancient authors. There will be a test during the term and a final examination. Text: Reading Greek (JAC Cambridge, 1978).
Prerequisites: Grade XII Greek or GKA104F
Session: Winter Day

GKR105F Plato: Apology / M.E. Irwin
A study of Apology, Plato's account of Socrates' defense against the charges of religious non-conformity and corrupting the young. The text will be read in Greek. In addition to the reading of the text, the political, legal and social situation in Athens at the time of the trial will be considered. The course will include exercises to assist the student in further study of the Greek language.
There will be three one-hour meetings weekly in which students will be expected to participate actively by translating and discussing passages of the text. A test during the term, a short essay and a final examination will be the means of evaluating this course.
Prerequisites: GKR105F
Session: Winter Day

GKR109Y Intermediate Modern Greek / G. Papadatos
Study of the Modern Greek language, primarily in its written form, with the goal of preparing the student for the reading of Modern Greek literature.
Prerequisites: GKR109Y (St. George) unless the student is a native speaker of the language
Session: Winter Day
GKRK320Y Modern Greek Literature | J.G. Papadimas and S. Mitter
Prave and poetry of nineteenth and twentieth century Greece. A survey of literature since independence.
A chronological study of the development of Modern Greek poetry and prose since independence in 1821. The work of a number of writers, among them Sophocles, Melina Mercurides, Palamas, Kavafis, Kazantzakis, Seferis, Rilke and Elytis will be examined in the light of the folkloric School, the Generation of 1880, that of 1930, the Post-War Period and, finally, the contemporary modern Greek literary scene. The course will be conducted in Modern Greek.
Prerequisite: GKRK245Y, or permission of instructor.
Session: Winter Day
GKRK350F-BRMF GKRK350F-BRMOG
GKRK405Y Supervised Reading | Coordinator: M.E. Irvin
Reading of texts in Greek chosen by consultation between students and faculty.
Students who wish to enter the Greek Supervised Reading Programme should enrol in any of the above courses. They should then contact the co-ordinator and discuss what they want to read and with whom (This will depend to some extent on time available). The student will meet regularly with the tutor - the exact arrangements depending on the difficulty of the chosen text and the level of the student’s ability. Profits in the text will be discussed as well as the literary qualities and cultural context of the work being studied.
Prerequisite: GKRK210Y or demonstrated competence in reading classical Greek
Session: Winter Day
LATAM6Y Introductory Latin | J.R. McDonald
The purpose of this course is to acquaint the student with the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature.
The course aims to bring the student with no previous knowledge of Latin to a sound basic reading knowledge of prose and poetry. Some time will be given to helping him see the language in its cultural and historical context, and the impact of Latin on English.
Classes are designed to introduce fundamentals of vocabulary, grammar, and syntax, but this routine will be varied occasionally to allow for lectures, discussions, and sides to increase awareness of the cultural milieu.
The text is F.M. Whallon's, Latin: An Introductory Course Based on Ancient Authors. Evaluation is by final examination (50%), short quizzes and exercises (50%).
Session: Winter Day
LATAM8F Introduction to Latin Authors | J.R. McDonald
Rapid reading of simple Latin texts, both prose and verse, together with a survey of Roman literature and a constitution of grammar.
This course serves as an introduction to university-level Latin studies for students with Grade XIII Latin and as a stepping stone to the reading of Latin authors for those who have begun the study of Latin in the College.
Texts to be read will be selected from a wide range of styles and periods to give the student a good general view of the scope and variety of Latin literature.
Evaluation will be by final examination and short exercises and quizzes.
Prerequisite: LATAM 15 Latin
Session: Winter Day
LATAM106 Catalina | J.N. Green
A selection of the works of Catalina will be read. The influences which affect Catalina, and his contribution to Latin poetry will be considered.
The material studied will be primarily the love poetry of Catalina but some of the inverte works and the "long poems" will also be examined. After some introductory lectures most of the class will be devoted to translating and studying individual poems in the light of critical literature. Students will be expected to participate in these classes. The text used will be the edition of Kenneth Quinn (Macmillan, 1970).
Evaluation will be based on one class test, one essay, sight translation and final examination.
Prerequisite: LATAM10
Session: Winter Day
LATAM230Y-LTAM290Y Supervised Reading | Coordinator: J.R. McDonald
Students who wish to take Latin Supervised Reading courses should enrol in any of the above courses (FYSY as appropriate). They should then contact the co-ordinator and discuss with him what they want to read and with whom. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two-hour period: exact arrangements will depend on the nature of the text and level of ability of the student. The purpose of these sessions is to sort out any problems of comprehension, and to discuss the literary qualities and cultural context of the work being read.
Prerequisites: LATAM10 or LATAM20
Session: Winter Day
LATAM42S Independent Studies | Coordinator: J.R. McDonald
These courses are designed to widen students' knowledge of Latin literature beyond those works and authors which have been studied in earlier courses.
A student will be expected to read considerably more than is required in the Supervised Reading courses. The reading may be confined to one author or grouped around a topic or genre. A student who registers for both C01F and C02S may be permitted to present a major essay, on a topic approved by the faculty in Classics, as the work required for C02S. Students will meet regularly throughout the term with a member of the faculty.
N.B. A student interested in Independent Studies should meet with the co-ordinator before enrolling, preferably in the Spring of the preceding year.
Prerequisite: At least two of LATAM21, LATAM22, LATAM36-38, LATAM35-39, permission of instructor.
Session: Winter Day
CLASS1S and RELATED COURSES NOT OFFERED in 1980-81:
CLAS1Y Greek and Roman Tragedy
CLAS1Y Greek and Roman Religion
CLAS2S Christianity in the Greek-Roman World
GRHI1Y Roman History from the Gracchi to Nero
GRHI2S Ancient Historiography
GRHI3Y Studies in Greek History II (excluding 300-30 B.C.)
Prerequisite: GRHI10, or any related HRH, CLA or HUM course
GRHI2Y Studies in Roman History
GRHI2Y Studies in Roman History: Roman Britain
Prerequisite: GRHI10 or any other GRH course.

COMMERCE
Assistant Chairman:

Commerce courses are designed both for those students who intend to specialize in the area and for those who wish to take one or more Commerce courses to supplement their studies in other areas. Courses in Commerce should help students to develop the analytical skills needed to diagnose and solve problems in business and government.
Students may take Commerce courses as part of a three- or four-year degree (normally a B.A. degree) and may, if they wish, work towards completing the Specialist Programme in Commerce and Economics or the Major Programme in Commerce. Graduates of a fifteen or twenty course degree programme may be eligible for admission to graduate study in business or may seek employment in accounting or pursue other industrial, commercial or governmental careers.
This College does not offer the Bachelor of Commerce (Honours) degree. Students who wish to obtain the B. Comm. must either enter or transfer to another college of the University (at the St. George or Erindale campus). Because of differences in course and degree requirements, such transfers should take place as early as possible in a student's career. Since many Commerce courses at the St. George Campus are subject to limits on enrolment, Scarborough College students should not assume that they will be able to take Commerce courses at that campus where a comparable course is not available at Scarborough.
COM01V1 Financial Accounting 1. A. Stavenga (Coordinator)

Basic theory and concepts which underlie the preparation of financial statements, development of double entry theory and practice; the accounting cycle from the recording of transactions in double entry form to the year-end entries and the preparation of financial statements; problems of measuring income. The course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying those techniques. Evaluation is based on weekly homework assignments (10% of the final mark) and on three mid-term tests and a final examination.

Session: Winter Day, Winter Evening, Summer Evening

COM01Y1 Management Accounting

An introduction to cost accounting with emphasis on the use of accounting information in managerial decision-making. Topics include types of cost accounting systems, patterns of cost behaviour, problems of cost allocation, delegation, budgeting and control. Evaluation is based on weekly homework assignments (10% of the final mark) and on three mid-term tests and a final examination.

Prerequisite: COM01A1 and ECO01B
Session: Winter Day, Winter Evening, Summer Evening

JCS21Y1 Organizational Behaviour 2. J. Hutchins

Examines social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Empirical studies used in the first term will focus on single organizations. Those used in the second term will focus on industries and other inter-dependent organizations.

Evaluation: (COM01A1) or (ECO01B)
Prerequisites: One previous course in Sociology, Commerce, Economics, or Political Science
Session: Winter Day, Winter Evening, Summer Evening

JCB0853 Industrial Relations

A study of industrial relations in the Canadian setting. Topics include industrial relations theory and systems, history, philosophy and structure of unionism, labour law, and collective bargaining. Limited enrolment 80.

Evaluation will be based on a mid-term test and a final examination.

Prerequisite: ECO01B
Session: Winter Evening

JCB0714 Analysis for Decision Making I

A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed.

Evaluation: COM01A1, ECO01B
Prerequisites: CISC0560 OR CISC058, MAT040 OR MAT021 OR MAT026 OR MAT045, ECO0803 Corequisite: ECO0851 OR GMR8882 OR MAT087
Session: Winter Day

JCB0713 Analysis for Decision Making II

A continuation of JCB0714 with emphasis on deterministic and probabilistic models. Course content will be presented by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing.

Evaluation: COM01A1, ECO01B
Prerequisite: JCB0712
Session: Winter Day

COM01H1 Accounting Theory

An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation including the problem of changing price levels. Limited enrolment: 40.

The course builds extensively on the material in COM01A1 and, to a lesser extent, COM01H1. Potential students should study thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course. Weekly homework problems, term tests, a final examination and group participation will all be evaluated. A number of short quizzes will also be given.

Prerequisite: COM01B1
Session: Winter Day

Specialist Programme in Commerce and Economics

Superior:
The Specialist Programme in Commerce and Economics is designed to provide the student with a foundation for a managerial career in commerce, industry or government or for further study in such fields as accounting, economics, law and management.

The Programme requires completion of sixteen and one-half full course equivalents as follows:

1. Six full-course equivalents in Commerce including COM01H1, COM01B1, JCB0714, JCB0712, JCB0713, JCB0715 (Note A)
2. Five full-course equivalents in Economics including ECO0201, ECO0203, ECO0207 and ECO0211
3. A course in Calculus (MAT022 or MAT026 or MAT025)
4. A half-course in Computer Science (CISC028 or CISC085)
5. Four additional full-course equivalents from courses other than COM, ECO and JCB

Note A: ICE courses may be counted in either Commerce courses or Economics courses. If ICE courses are used to meet the Economics requirements, other COM courses must be substituted in meeting the Commerce requirements.

Major Programme in Commerce

Superior:
The Major Programme in Commerce is designed to provide the student with an introduction to the field that can be used as the basis for graduate or professional studies or as a complement to undergraduate studies in related areas.

The Programme requires completion of eight full courses including:

1. Five full-course equivalents in COM or ICE courses including COM01A1 and COM01B1 (Note B)
2. Two full-course equivalents in ECO courses including ECO01B
3. JCB0712

Note B: The above requirements do not include prerequisites that relate to certain advanced courses. Prerequisite courses must be completed in addition to the above requirements.

Careers in Accountancy

The College offers a significant number of courses which have been recognised as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Registered Industrial Accountants. A brochure describing the various programs and listing the recognized Scarborough College courses is available from the Student Services Office (284-2292).

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The Major Programme in Computer Science provides an introduction to some of the main areas in the field, and provides for example a good background for students anticipating a career in secondary school teaching.

Students who wish to study computing primarily in order to use the computer in their own specialties should begin with CSC3A5 and CSC4A5. JMC3C1 is then available, as are CSC2B0, 218 and 300, given on the St. George campus.

Students should also look at JMC3C1 and JMC5C1 which are additional Computer Science courses.

Specialist Programme in Computer Science

Supervisor: W. Einhorn

There are ten and a half courses required for the Specialist Programme in Computer Science. Note that the courses need not be taken in exactly the indicated order, but if an alternate ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

In the first year of full-time study (or equivalent):
CISC3A5F, CISC4A5F, MATA2A0/MATA3A5, MATA4A0F, MATA4A5S

In the second year of full-time study (or equivalent):
CISC6B8F, CISC7B8F, CISC8B8S, MATA2A0/MATA3A5, MATA4A0F, MATA4A5S

In the third year of full-time study (or equivalent):
CISC3C4F, JMC3C1S, MATA4C4F, STAB3B5F, STAB875S, MATH451F or MATH586F or MATH4B1F

In the fourth year of full-time study (or equivalent):
Two full-course equivalents to be chosen from the following options:
(CSC5C5SF, STAB3B5F, MATA2A0/MATA3A5, MATA4A0F, MATA4A5S)

In completing the Programme a student is strongly encouraged not to include any Computer Science courses other than those required above. It is also desirable to have a sequence of approximately four related half-courses in a subject area in which computers can be usefully applied.

Specialist Programme in Computer Science for Data Management

Supervisor: W. Einhorn

There are thirteen courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in a different order, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

1. In the first year of full-time study (or equivalent):
CISC3A5F, CISC4A5F, MATA2A0/MATA3A5, MATA4A0F, COM3A0F, ECO3A0H, MATA4A0F will be required later in the programme if the option MATA2B0 is chosen.

2. In the second year of full-time study (or equivalent):
CISC6B8F, CISC7B8F, CISC83B8S, ECO3B0Y/ECO3B0Y, MATH4B1F and MATH4B2S (or MATH4B1F and MATH5B2S)

3. In the third year of full-time study (or equivalent):
CISC3C4F, COM3A0F, MATA4A0F, STAB3B5F, STAB875S

4. In the third or fourth year of full-time study (or equivalent):
Two and a half full-course equivalents to be chosen from the following options:
(CSC5C5SF, MATA2A0/MATA3A5, MATA4A0F, MATH4B1F or MATH5B2S)

In completing the Programme, a student is encouraged not to include any Computer Science courses other than those required above.

Major Programme in Computer Science

Supervisor: W. Einhorn

Seven and a half full-course equivalents are required. The courses need not be taken in the order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

In the first year of full-time study (or equivalent):
CISC3A5F, CISC4A5F, MATA2B1/MATA5A51, MATA4A0F

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University students interested in Administration are encouraged to apply whether or not they have completed any part of the first-year curriculum (CMA401, ECOA01, JCRB27, POLB90). The timing of their first work placement will depend upon which parts of the curriculum they have completed. The admissions procedure will include an evaluation of potential interest and ability in Administration and a letter of reference from a high school teacher or university instructor will be required from each applicant. Enrolment in this Programme is limited and only a small proportion of applicants can be accepted each year.

Specialist in Co-operative Programme in Administration
Supervisor: A. P. Simmie

The Programme combines eight four-month terms of study at Scarborough College with four terms of work experience, typically over a five-year period. During work terms students serve in positions in government or government-related business that are arranged by the Programme but won by students in competition with co-op students from other universities. Satisfactory performance in placements, including the submission of work term reports, is a requisite for completion of the Programme. The curriculum is designed to develop skills in all students in three fundamental areas: (a) behavioral skills, (b) policy analysis skills and (c) management skills. Students will complete a core of ten full-course equivalents organized around these foundations. Students complete the Programme by selecting an advanced option which focuses their studies in a specific problem area. These advanced options include Policy Analysis, Economic Policy, Evaluation of Social Issues, Urban and Regional Policy Analysis and Programme Management. Typically the choice of an advanced option need not be made until the third year. Advanced courses of interest to students offered by Commerce, Computer Science, Economics, Geography and Mathematics equip tight patterns of prerequisites and students must plan their courses with considerable care. Each student's curriculum will require the approval of the Supervisor. Prior to the first work term, usually in or after the second year, students will have completed CMA401, ECOA01, ECOB05, JCRB27, POLB90 and POLB60. Students are advised that a working knowledge of French is most desirable for employment in the public service. Federally and provincially. The programme of intensive French study offered in the Summer Language Institute at Scarborough College is strongly recommended.

A. Core courses: ten full-course equivalents, to be selected as follows:

I. Behavioural Foundations (two full-course equivalents)

Required:

JCSB27Y Organizational Behaviour

one full-course equivalent from:

POLB65Y Political Behaviour
POLB66Y Psychology and Politics
POLC25YS Topics in Political Leadership
SOCB07Y Political Sociology
SOCIC31Y Industrial Sociology
SOCIC36Y Sociology of Occupations and Professions

II. Public Policy Development and Evaluation (four and one half full-course equivalents)

Required:

ECOAM0Y Introduction to Economics
ECOBUY Prior Theory
POLB20Y Canadian Government and Politics
POLB50Y Public Administration

one of:

ECOB2F Economic of the Public Sector: Expenditures
ECOB3F Public Decision Making

III. Humanity (one full-course equivalent)

To be selected from the curricular offerings of the Humanities Division.

IV. Programme Management (two and one half full-course equivalents)

Required:

COMA40Y Financial Accounting
COMB30Y Management Accounting
one half full-course equivalent from:
ECOB11F5 Quantitative Methods in Economics
ECOB12S5 Quantitative Methods in Economics: Applications
GGRB10Y Analytical and Quantitative Methods in Geography
StArS2F Probability and Statistics I
StArS7F Probability and Statistics II
PsyB05S Data Analysis in Psychology
PsyB08S Experimental Design in Psychology
SocS6F5 Social Statistics

B. Advanced options

I Policy Analysis (three full-course equivalents)
a) two full-course equivalents from:
PoliB0Y Policy in Canada
PoliC6F Administrative Politics
PoliC8S Political Development
PoliC9F5 Organized Interests and the State
b) one half full-course equivalent from:
PoliB5S Government and Politics in Ontario
PoliB5F5 Intergovernmental Relations

c) one half full-course equivalent from:
ECOB07Y Macroeconomic Theory and Policy
ECOB12S Quantitative Methods in Economics: Applications
ECOB13S Economics of the Public Sector: Taxation
ECOB13F Public Decision Making
ECOB14S Industrial Organization

II Economic Policy (three and one half full-course equivalents)
a) Required:
ECOB07Y Macroeconomic Theory and Policy
b) one and one half full-course equivalents from:
ECOB13S Economics of the Public Sector: Taxation
ECOB13F Economics of the Public Sector: Expenditures
ECOB14S Industrial Organization
JCEC6F Public Policy Towards Business

c) one full-course equivalent from:
PoliB3Y Public Policy in Canada
PoliC6F Administrative Politics
PoliC8S Political Development
PoliC9F5 Organized Interests and the State

III Evaluation of Social Issues (four full-course equivalents)
a) Required:
SocC6F1Y Methods in Social Research
SocC6F5Y Urban Sociology
SocC6F7F5 Applied Sociology
b) one half full-course equivalent from:
COMC30Y1 Marketing
SocC8Y2Y Population
SocC9F8 Sociology of Occupations and Professions
SocC91F7 Sociology of Law and Law Enforcement
SocC92F7 Industrial Sociology
SocC92F5 Qualitative Methods in Social Research
c) one full-course equivalent from:
PoliB3Y Public Policy in Canada
PoliC6F Administrative Politics
PoliC8S Political Development
PoliC9F5 Organized Interests and the State

IV Urban and Regional Policy Analysis (four full-course equivalents)
a) Required:
GGRB04Y The Nature of Human Geography
GGRB10Y Urban Geography
GGRB27Y Introduction to Regional Science
b) one full-course equivalent from:
ECOB07Y Urban Economics
PoliB0Y Urban Politics
PoliC6F Administrative Politics
PoliC8S Policy Development
PoliC9F5 Organized Interests and the State
SocC6F5Y Urban Growth and Planning

V Programme Management (three and one half full-course equivalents)
a) two full-course equivalents from:
ComC3S4Y Marketing
JCEC6S2Y Corporation Finance
JCEC6S7F Analysis for Decision Making I
JCEC6S7S Analysis for Decision Making II
b) one full-course equivalent from:
PoliC6F Administrative Politics
PoliC8S Organized Interests and the State

c) one full-course equivalent from one of:
ECOB13F Industrial Organization
JCEC6F Public Policy Towards Business
SocC6F5 Sociology of Occupations and Professions
SocC92F7 Industrial Sociology
SocC92F5 Introduction to Computer Science

DRAMA

Discipline Representative: M.Q. Scherberg

The Drama courses at Scarborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject. At present we offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of the theatre from a non-literary point of view from its classical beginnings to the present day. These courses are augmented by courses in the dramatic literatures of several countries which are offered by members of the faculty who specialize in these areas. Advanced students may choose an Independent Studies course or Directed Reading course, where they work individually under the supervision of their own tutors.

In the practical courses, the student becomes acquainted with all aspects of theatre production in studio situations, both as actors and technicians. The students study with faculty members and with professional artists and teachers. Participation in public productions at the College is encouraged.

Specialist Programme in Drama

Supervisor: M.Q. Scherberg

A student is required to complete twelve full-course equivalents, ten in the areas of Dramatic Literature and Theatre, and two in related disciplines, as follows:

(1) DRA10Y The History of Theatre I
(2) DRA104Y The History of Theatre II
(3) DRA20Y An Introduction to the Practical Elements of Theatre
(4) ENGB11Y Varieties of Drama
(5) ENGB31Y Modern Drama

(6) Two full-course equivalents chosen from the following:
CLAS30Y Greek and Roman Tragedy
ENGB20Y English Poetry and Drama 1660-1800
ENGB30Y Shakespeare
ENGB32Y English Drama to 1642
ENGB32F5 English Drama 1750-1900
FRED32F5 French Drama of the 18th Century
FRED33F5 French Theatre of the Early Modern Period
FRED35F5 Contemporary French Theatre: The Theatre and the Absurd
FRED38F5 The Theatre of French Canada
FRED39F5 Workshop in Modern French Theatre
FRED40F5 French Classics: The Theatre
GERB40Y (GERB31Y) The Development of German Drama (in translation)
GERB40Y (GERB31Y) Nineteenth Century Drama
GERB40Y (GERB31Y) Twentieth Century Drama
HUMB20Y Introduction to Cinema
ITAB2F5 Modern Italian Theatre from Pirandello to the Present
ITAB35F5 Italian Sixteenth Century Theatre
ITAB45F5 Italian Eighteenth Century Theatre
SPAR21Y Spanish Drama
SPAR22Y Golden Age Drama
* Students should check these courses for prerequisites

(7) Three full-course equivalents chosen from the following of which two must be at the C-Level, and no more than two may be chosen from DRAC10-C28.

DRAC30Y The Directors' Theatre
DRAC30Y The Art and Nature of Comedy
DRAB51Y The Theory and Practice of Improvisational Theatre: Commedia dell'Arte
DRAC10Y Medieval and Early Tudor Drama: The Text and their Production
DRAC31Y Advanced Practical Workshop and Elements of Directing
DRAC32Y Individual Studies in French Drama
DRAC31Y Individual Studies in German Drama
DRAC32Y Individual Studies in Italian Drama
DRAC32Y Individual Studies in Russian Drama
DRAC32Y Individual Studies in Spanish Drama

DRAC32S Supervised Reading Courses

The student may take only one of the Individual Studies courses in any single academic year.

(8) Two full-course equivalents chosen from the following:

ANTA01Y Introduction to Anthropology
ANTB01Y Peoples of the World
ANTR02Y Anthropological Theory of Religion
ANTR03Y Comparative Mythology
CLAS05Y Greek and Roman Epic
ENGER4Y English Literature: Forms and Approaches
ENGER4Y English Literature: Forms and Approaches
FARA02Y Aspects of Western culture from the Renaissance to Modern Times
HIS40Y The European World: An Introduction to History
HUMA01Y Prologue
HUMA11Y Greek and Roman Mythology
LIN040Y General Linguistics
LIN040Y Introduction to Language
MUS040Y Introduction to Music

PHLB03Y Philosophy and Art
PSY10Y Introduction to Psychology
SOC10Y Introduction to Sociology
* Students should check these courses for prerequisites
** Prerequisite ten full-course equivalents

Note: No more than ten full-course equivalents in DRA are permitted in the four-year degree.

Major Programme in Drama
Supervisor: M.Q. Schonberg

A student is required to complete six full-course equivalents in the area of dramatic literature and theatre. The following four courses comprise the core of the programme:

DRAC10Y Drama Workshop and Seminar (An Introduction to the Practical Elements of Theatre)
DRAC20Y History of Theatre I
DRAC40Y History of Theatre II
ENGB11Y Varieties of Drama

In addition, the student must take two full-course equivalents, one from Group A and one from Group B, but no more than two courses from DRAC10-C28 may be taken within the three-year degree.

Group A

DRAC30Y Advanced Practical Workshop and Elements of Directing
DRAC41Y Individual Studies in French Drama
DRAC41Y Individual Studies in German Drama
DRAC41Y Individual Studies in Russian Drama
DRAC41Y Individual Studies in Spanish Drama

Group B

DRAC20Y Greek and Roman Tragedy
DRAC20Y The Directors' Theatre
DRAC20Y The Art and Nature of Comedy
DRAC20Y The Theory and Practice of Improvisational Theatre: Commedia dell'Arte
DRAC20Y Medieval and Early Tudor Drama: The Text and their Production
ENGB02Y English Poetry, Prose and Drama 1660-1800
ENGB03Y Shakespeare
ENGB12Y English Drama to 1642
ENGC30F5 Drama in English Canada 1920-1970
ENGB11Y Modern Drama
FRED20F5 French Drama of the 18th Century
FRED21F5 French Theatre of the Early Modern Period
FRED31F5 Contemporary French Theatre: The Theatre and the Absurd
FRED32F5 The Theatre of French Canada
FRED33F5 Workshop in Modern French Theatre
FRED35F5 French Classics: The Theatre
GERB40Y The Development of German Drama (in translation)
GERB40Y Nineteenth Century Drama
GERB40Y Twentieth Century Drama
HUMB20Y Introduction to Cinema
ITAB2F5 Modern Italian Theatre from Pirandello to the Present
ITAB35F5 Italian Sixteenth Century Theatre
ITAB45F5 Italian Eighteenth Century Theatre
SPAR21Y Spanish Drama

* Students should check these courses for prerequisites.
** Prerequisite ten full-course equivalents.

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DRAC01V Individual Studies in French Theatre and Drama in Translation / J.M. Schonberg
Individuals will study under the supervision of members of the French discipline.
This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.
The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the French discipline, and the Drama Supervisor.
This course is based on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisites: At least two full course equivalents, two of which must be DRAC03 and DRAC04.
This course is intended for students specializing in Drama who are not sufficiently fluent in French/German/Italian/Russian/Spaian to read the texts in the original.
Permission of Supervisor required.
Session: Winter Day

DRAC11Y Individual Studies in German Theatre and Drama in Translation / J.M. Schonberg
Individuals will study under the supervision of members of the German discipline.
This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.
The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the German discipline, and the Drama Supervisor.
In this course the emphasis will be on the student’s individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisites: Same as for DRAC10
Session: Winter Day

DRAC12Y Individual Studies in Italian Theatre and Drama in Translation / J.M. Schonberg
Individuals will study under the supervision of members of the Italian discipline.
This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.
The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Italian discipline, and the Drama Supervisor.
In this course the emphasis will be on the student’s individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisites: Same as for DRAC10
Session: Winter Day

DRAC13Y Individual Studies in Russian Theatre and Drama in Translation / J.M. Schonberg
Individuals will study under the supervision of members of the Russian discipline.
This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.
The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Russian discipline, and the Drama Supervisor.
In this course the emphasis will be on the student’s individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisites: Same as for DRAC10
Session: Winter Day

DRAC14Y Individual Studies in Spanish Theatre in Translation / J.M. Schonberg
This course is intended for students in the Specialist Programme in Drama who do not have adequate knowledge of the Spanish language to be able to work with original texts.
The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Spanish discipline, and the Drama Supervisor.
In this course the emphasis will be on the student’s individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisites: Ten full course equivalents and permission of Supervisor.
Session: Winter Day
ECONOMICS

Assistant Chairman: M.W. Bucovetsky

The Economics curriculum offers a wide variety of both theoretical and applied courses. The curriculum provides an excellent background for careers in business, government, and the professions.

Many of the courses are not intended exclusively for specialists in the discipline but can be of value to students with very diverse interests.

There are certain courses which are central to the curriculum: the introductory course (ECO301); the initial Level courses - Price Theory (ECO800) and Macroeconomic Theory and Policy (ECO807); at least one course that provides a different perspective either on contemporary economic theory, on or ways of organizing economic activity - Economic History (ECO801), ECON820, the Literature of Economics (ECO820, ECON210), Comparative Economic Systems (ECO860). A student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science and, most importantly, of all Mathematics (especially Calculus, Probability Theory, and Linear Algebra).

Many courses in the Social Sciences complement courses in Economics so that students are urged to read the Calendar and, with the help of the Supervisor, to plan their programmes of study carefully.

Specialised Programme in Economics

Supervisor: R. Saunders

The Specialised Programme in Economics requires a heavy concentration in the discipline. A Specialised Programme may not be advisable for all students. Students who are interested in Economics and in other areas as well should refer to the Economics course descriptions, and to the Major Programme in Economics.

The Programme is designed for students considering employment in fields where a knowledge of economic theory and its ability to do research are important. The Programme is not a guarantee of employment but it does provide the basic quantitative and theoretical skills which are essential for decision-making in business and government.

Students must complete at least nine full-course equivalents as specified below and not more than fourteen full-course equivalents in Economics. The following specific courses must be included as part of the nine-course minimum:

ECO301
ECO560 or ECON560
MATA22Y or MATA23Y or MATA5Y
ECOB8Y (formerly ECO818 and BIUS)
ECO870 (formerly ECO818 and BIUS)
ECO818FS or STAT812 and STAT875
ECO812
ECO825FS or ECON825FS or ECO827FS
ECO827 or ECON801Y or ECON81Y

Four-Credit half-courses in Economics, one of which may be ECO818 or ECO814Y and one of which must be taken from the Workshops in Economics.

Students are urged to take ECO801Y, ECON560 or ECON560 and either MATA22Y or MATA23Y in their first year of full-time study (or equivalent). The courses in Mathematics, particularly MATA22Y or MATA23Y, are recommended as preliminary to ECON801Y, which is an important course in the second year of full-time study (or equivalent). ECON818FS should be included in the first ten courses taken.

Students may petition the Supervisor for permission to substitute other courses for some of those listed above.

Students considering the possibility of graduate work in Economics are strongly urged to take MATA22Y and either MATA23Y or MATA24Y in first year and, in second year, to take Mathematical Statistics (STAT828 and STAT875) instead of ECON811, and B level Calculus.

Specialised Programme in Economics and Commerce

Please refer to "Commerce and Economics"
ECO497Y Introduction to Economics / Staff
A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, pollution, poverty, monopoly.
Session: Summer Evening, Winter Day, Winter Evening

ECO807Y Price Theory / Staff
Intermediate level development of the principles of microeconomic theory. Initially the primary emphasis is on static partial equilibrium analysis, but general equilibrium analysis is developed later in the course. The topics covered are consumer theory, theory of production, theory of the firm, theories of competition, monopoly and oligopoly, factor prices and welfare economics.
Exclusions: ECOB401 and ECOB605
Prerequisites: ECOA01
Session: Summer Day, Winter Day, Winter Evening

ECO807Y Macroeconomic Theory and Policy / Staff
An exposition of macroeconomic theory with detailed discussion of the theory of output, unemployment and the price level and of policy techniques for influencing and controlling the levels of these variables. There is some discussion of Canadian institutions and markets as well as of the policy experiences of Canada and other countries.
Exclusions: ECOB805 and ECOB806
Prerequisites: ECOA01
Session: Summer Day, Winter Day, Winter Evening

ECO811F/S Quantitative Methods in Economics / Staff
An introduction to basic statistical methods and their applications to economic problems.
Exclusions: AN1E43, GGR001, PSY101, SOC100, STAB01
Prerequisites: ECOA01
Session: Winter Day, Winter Evening

ECO8126 Quantitative Methods in Economics: Applications / Staff
A course in some quantitative methods used in the analysis of economic policy. The student is introduced to the primary statistical techniques and modelling issues that are employed in forecasting, policy evaluation and planning decisions. Topics will include multiple regression, estimators of multiple regression models, forecasting techniques and input-output models. Calculus is strongly recommended.
Prerequisites: ECOB111 or GGR002 or STAB02 or STAB07, CSCA06 or CSCA18
Session: Winter Day

ECO820F Literature of Political Economy / W.V. Bladen
A study of the classical literature of Political Economy, especially selections from the works of Adam Smith, Malthus, Ricardo and J.S. Mill.
Prerequisites: ECOA01
Corequisites: ECOB03, B07
Session: Winter Day

ECO821F Literature of Political Economy II / Staff
A study of the classical literature of Political Economy, especially selections from the works of Marx, Servius, Marshall and Keynes.
Prerequisites: ECOA01
Corequisites: ECOB04, B07
Session: Winter Day

ECO831S Economics of the Public Sector: Taxation / M. Baczynsky
This course is concerned with the revenue side of government finance. In particular, it deals with existing tax structures in Canada and elsewhere, and with criteria for tax design. Some attention will also be given to the use of government fiscal policy to regulate the level of economic activity.
Prerequisites: ECOB00
Session: Winter Day

ECO832F Economics of the Public Sector: Expenditures / M. Baczynsky
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.
Prerequisites: ECOB03
Session: Winter Day

ECO835F Public Decision Making / M. Knacksworthy
The economics of non-competitive decision making, cost benefit analysis, voting models, evaluation of public policy, theories of organization. Case studies of public decisions will be included.
Prerequisites: ECOA01
Session: Winter Day

ECO841F Industrial Organization / R. Saunders
The economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation and diversification.
Prerequisites: ECOB03
Session: Winter Day

ECO845F Poverty and Income Distribution / M. Ganderston
A study of alternative theories of income distribution with application to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.
Prerequisites: ECOB01
Session: Winter Day

ECO847S Urban Economics
Economic analysis is an important contemporary urban problems. Topics discussed include: housing and urban renewal, poverty and income maintenance, education, metropolitan organization of urban areas.
Prerequisites: ECOB01
Session: Winter Day

ECO851S Labour Economics / M. Ganderston
The course is designed to apply the basic tools of labour economics to various policy issues such as: fertility and family formation, labour force participation, hours of work, overtime and moonlighting, mobility and migration, the effect of market structures on the wage-employment decision, the role of wage structures; causes, types and incidence of unemployment, wage-price guidelines and the wage-price-employment trade-offs, the impact of institutional constraints such as unions, unfair laboring, minimum wages, wage parity, sex discrimination, occupational licensing, unemployment insurance, wage subsidies and negative income tax plans.
Prerequisites: ECOB03
Session: Winter Day

ECHB845 Industrial Relations
A study of industrial relations in the Canadian setting. Topics include industrial relations theory and system; history, philosophy and structure of unionism, labour law, and collective bargaining. Limited enrollment 80.
Evaluation will be based on a mid-term test and a final examination.
Prerequisites: ECOA01
Session: Winter Evening

ECHB845 International Economics: Finance
A study of international trade of commodities from 1700. A study of various international monetary arrangements; flexible rates; the gold standard and the dollar standard; current efforts to reform the system. The economics of international investment and its control. The effects of international investment.
Prerequisites: ECOB07
Session: Winter Day

ECHB845 International Economics: Trade Theory
An analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade. "Free trade" and protectionism. The optimum tariff; trade blocs; the economics of customs unions and regional economic integration, tariff bargains. The Canada-U.S. Auto Pact.
Prerequisites: ECOB01
Session: Winter Day
ECC096F Economic Development / A. Berry
A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problem of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry.
Prerequisite: ECC085
Session: Winter Day

ECC089S Comparative Economic Systems
A course designed to introduce students to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining three alternatives from a theoretical perspective; the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia.
Prerequisite: ECO041
Corequisites: ECO089
Session: Winter Day

JECB172F Analysis for Decision Making I
A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed. Exclusions: (COMB06), (ECCB01)
Prerequisites: CISC01 OR CISC02, MAT140 OR MAT222 OR MAT226 OR MAT55, ECO089
Corequisites: ECOB11 OR GGRB02 OR MATB07
Session: Winter Day

JECB173 Analysis for Decision Making II
A continuation of JECB172F with less emphasis on deterministic, linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing. Exclusions: COMB06, (ECCB01)
Prerequisites: ECO089
Session: Winter Day

ECO081Y North American Economic History
A survey of important themes in the economic history of Canada and the United States. A comparative approach is employed to develop such themes as the role of natural resource staple industries, and urbanization, and the relationship of the state to economic change in the two countries.
Prerequisite: ECO041
Session: Winter Day

ECO082Y European Economic History / J. Cohen
A study of the emergence of industrial society in Europe since the Middle Ages with some emphasis on the comparative history of Britain and other European countries and the growth of the nineteenth century world economy. Particular attention is paid to technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.
Prerequisite: ECO041
Session: Winter Day

JECB282Y Corporate Finance
An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment 60.
Evaluation will be based on homework assignments, a mid-term test and a final examination.
Prerequisites: COMB10, ECO060, ECO111
Session: Winter Day

ECC085S The Economics of J.M. Keynes / L. Tarkhill
A study of his major works and consideration of their broad social implications. An attempt will be made to evaluate their relevance for Canada and other countries at the present time. Modern criticisms of Keynes will be analysed.
Prerequisites: ECC085, ECOB07
Session: Winter Day

ECC097F The Economics of Karl Marx / J. Cohen
A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.
Prerequisites: ECO030, ECCB07
Session: Winter Day

ECC098S Econometrics / W. Milne
A detailed examination of the issues relevant for policy evaluation and corporate planning in building, estimating and evaluating statistical models in economics. This course will apply the theory of linear statistical models and simultaneous equation estimation covered in ECC025 to problems such as energy demand forecasting, the modelling of supply-demand equilibria in markets, measuring the impact of government regulatory policies and the use of large scale regional or national econometric models.
Prerequisites: ECOB12, ECOB03, ECOB07, MATA40 or permission of instructor
Corequisites: ECC013 or ECC014 or permission of instructor
Session: Winter Day

ECC011F and ECC012S Supervised Reading / Staff
These courses are meant for upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.
Prerequisites: Permission of instructor
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

ECC013F Advanced Microeconomic Theory
An upper level extension of the ideas studied in ECC081. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.
Prerequisites: ECOB11, ECOB07, ECOB11, MATA22 or MAT226 or MAT55
Session: Winter Day

ECC014S Advanced Macroeconomic Theory
Post-Keynesian developments in macroeconomic (including monetary) theory, empirical testing of Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconomic models.
Prerequisites: ECOB11, ECOB07, ECOB11, MATA22 or MAT226 or MAT55
Session: Winter Day

ECC015F and ECC016S Topics in Advanced Economic Theory
These courses are devoted to some aspect of economic theory not usually covered at the undergraduate level, or to recent work extending or revising received theory, or to alternatives to our core curriculum. A detailed list of courses and instructors will be available to students from the late spring onwards.
Prerequisites: ECC013 or ECC014 and permission of instructor
Session: Winter Day

ECC017F
ECC018F
ECC019F
ECC020S Workshops in Economics
The workshops deal with detailed problem areas in Economics. In past years these have included such subjects as natural resources, technical change, international investment, multinational firms, economic discrimination or extensions of applied topics covered at B-level.
A detailed list of the courses and instructors will be available to students from the late spring onwards.
Prerequisites: ECOB07, ECOB07, MATA22 or MAT226 or MAT55. For ECOB09F and ECC020S, ECO013 or C14 will be a prerequisite.
Session: Winter Day
ENGLISH

Discipline Representative: E. P. Vicari

The study of English encompasses English, Canadian and American literatures and other literatures in the English language. The curriculum offers a broad range of courses designed to enable students to gain a comprehensive knowledge of a rich literary tradition. In addition, sequences of courses are available in historical periods, in specific genres, in national literatures, and in particular authors, to allow students to pursue individual interests at greater depth. In all courses, emphasis is placed on close reading, critical thinking, and clarity of expression.

At the A-level, the curriculum offers two kinds of course: A1 and A2 deal with works from a broad historical spectrum, and provide a basic grounding for further studies in English; they are designed particularly, but not exclusively, for students planning a Specialist or Major Programme in English. For students intending to pursue an English Programme, A1 provides a good alternative introduction to English at the university level, through the study of Twentieth-Century literature.

At the B-level, several courses are offered which require no prerequisite and are therefore available both to beginning and to more advanced students: see B10, B15, B20, B30, B40, B50, B60 and B70. Other courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter.

C-level courses are designed for more advanced students and require some independent work on the part of the student. These courses are generally restricted to enrollment and are conducted as seminars. Students are advised to consult the prerequisites for these courses when planning their individual programs.

Specialist Programme in English

Supervisor: E. P. Vicari

Ten full-course equivalents in English and two in related Humanities disciplines are required. They should be selected as follows:

(1) ENGBY1 English Literature: Practical Criticism and Interpretation
(2) ENGBY2 English Literature: A General Survey
(3) ENGBY3 English Literature: An Historical Survey
(4) Five additional full-course equivalents in English at the A- or B-level, including at least two courses in periods before 1800 and two courses in periods after 1800
(5) Two full-course equivalents in English at the C-level
(6) Two full-course equivalents in related Humanities disciplines to be chosen from the following:

CLABEY Greek and American Epic
CLADY Greek and Roman Tragedy
HISBEY British Literature from the Eighteenth Century to the Present
HISBEY Tutor and Stuart England (Prerequisite: A-level HIS course)
HUMAIAY Greek and Roman Mythology
LINGCMY General Linguistics

(Major listing requires the selection of those courses which have a general relevance to the study of English literature. Students may substitute, with the prior approval of the Supervisor, other Humanities courses which have specific relevance to their individual programs.)
ENG350Y Old English Language and Literature | A.G. Patnum
An introduction to the language and literature of the Old English period as represented principally in the poetry and prose of the ninth and tenth centuries. In the first term a fluency in the language is developed, mainly through a study of the grammar and syntax of various pieces of prose and poetry; the second term is devoted to a reading of poems selected from the following: Beowulf, Gregory of Tours, The Venerable Bede, and The Arthurian Cycle. 
Prerequisite: One full-course equivalent in English
Session: Winter Day

ENG350Y Chaucer | P.L. Heyworth
Chaucer's poems are studied mainly as artistic productions, but also in relation to their historical and intellectual backgrounds. The text will be read in Middle English and some language study is involved. Further information will be available later in Room H325A.
Prerequisite: One full-course equivalent in English
Pre-or Co-requisite: 1981-82: ENG212H (ENG410H), ENG200 or ENG315
Session: Winter Day

ENG350Y English Poetry, Prose and Drama 1600-1800 | W.J. Howard
An historical study of the poetry, prose and drama of the Restoration and Eighteenth Century with special reference to the work of Dryden, Pope, Swift, and Johnson. In addition to the writings of these major figures, the course will examine a wide range of other works as well as the political and cultural backdrop of the period. Works studied will include: Pope's The Dunciad (selections); Swift, The Character of a Citizen, The Lady's New Year's Gift; Dryden, Essay of Dramatic Poety, All for Love, Preface to the Fables, Original and Progress of Satire, Defoe, Journal of the Plague Year; Swift, Battle of the Books; Field of the Joke, Gulliver's Travels; Addison, The Spectator (Everyman's Library, Vol. II); Boswell, Life of Johnson; Johnson, Preface to Shakespeare, Lives of the Poets (Cowley, Dryden, Pope, Milton, Congreve, The Way of the World; Goldsmith, She Stoops to Conquer, Sheridan, The School for Scandal.)
Prerequisite: One full-course equivalent in English
Pre-or Co-requisite: 1981-82: ENG212H (ENG410H), ENG200 or ENG315
Session: Winter Day

ENG350Y Romantic Poetry | H. Asker
Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study. Relevant prose works by these authors, and selections from other poets of the period, will also be studied. Further information will be available later in Room H325A.
Prerequisite: One full-course equivalent in English
Prerequisite: 1981-82: ENG212H (ENG410H), ENG200 or ENG315
Session: Winter Day

ENG350Y Canadian Literature in English: An Introduction | J. MacInnis, S. Namjoshi
A study of a wide range of Canadian literature, including works by novelists such as Callaghan, MacLennan, Laurence, Grévy, Davies, Buckler; poets such as Lampman, D.C. Scott, Klabin, Pratt, Blythe, Atwood, Avishai; playwrights such as Ryga, writers of short stories and non-fiction prose. The study of Canadian literature in English will be mainly historical, from early times to the present, though most attention will be paid to literature of the twentieth century. Representative novels, poems and plays will be read by the class. The individual student will be encouraged to read more widely in the works of particular authors through the preparation of seminar papers and essays. Teaching method involves lectures, discussion periods, and tutorials. Evaluation will be based on written essays, seminar papers, and a final examination.
Text: Literature in Canada (ed. D. Daymond, L. Montgomerie, S. Moodie, Roughing it in the Bush
Leaves of Grasses: Sketches; Gréy, Sketches of the March; Callaghan, The Shell Inherit the Earth; MacLennan, Each Man's Son; Watson, The Double Hook; M. Lawrence, The Diviners; Ryga, The Century of Rice; R. Davies, World of Wonders.
Session: Winter Day, Winter Evening

ENG350Y Prose and Poetry of the English Renaissance 1500-1660 | R. Brown
A study of English Renaissance literature beginning with fourteenth-century humanism in the works of More and Erasmus, responses to the courtly love tradition in the poetry of Wyatt, Surrey, Sidney, and Shakespeare, and Spencer's development of the epic. The second half of the course considers the later Renaissance and the works of Donne, Milton, Jonson and their contemporaries. Texts: More, Utopia; Erasmus, The Praise of Folly; Few Country Poets; Selected Poetry of Shakespeare; Sonnets; Milton, Paradise Lost; The Later Renaissance in England, ed. Rollins Baker. The teaching method will involve lectures and discussion. Evaluation will be based on two essays, class participation, and a final examination.
Prerequisite: One full-course equivalent in English
Pre-or Co-requisite: 1981-82: ENG212H (ENG410H), ENG315, or ENG315
Session: Winter Day

ENG350Y Shakespeare | A.G. Patnum
A study of at least eleven plays. The lectures develop an analytical approach to Shakespeare; they do not offer a comprehensive view of the plays, nor do they provide an objective exercise of critical approaches to Shakespeare. Instead, the lectures expose the lecturer's own aesthetic and critical prejudices, which may be challenged and questioned in seminar. Bibliography: King Lear; Hamlet; Antony and Cleopatra; Romeo and Juliet; Richard II; Henry IV; Henry V; Twelfth Night; Macbeth; Much Ado About Nothing; Midsummer Night's Dream; The Tempest. Other texts may be added in the seminar groups. There will be two hours of formal lecture, and one hour of seminar. Evaluation will be 6000 words in essays; participation in seminar; two ninety-minute examinations.
Session: Winter Day

ENG351Y Variation of Dreams | K. Theil
A study of a dream from ancient Greece to the present day. A wide range of plays will be examined in terms of theatrical convention, dramatic form, genre, theme, and verbal style. The course introduces students to a wide range of drama through the study of about twenty plays. Students are encouraged to think about the relationship between dramatic texts and their theatrical production, to consider the relevance of generic labels (e.g., tragedy, comedy, tragedy-comedy), to make thematic connections among the plays, and to do close textual analysis of some of the plays. Texts will include Sophocles, Oedipus Rex; Aeschylus, Lysistrata; Moliere, Doctor Faustus; Shakespeare, King Lear; Jonson, Volpone; Wilde, The Importance of Being Earnest; Miller, Death of a Salesman; Pinter, The Homecoming. A full reading list will be available in May in R7088.
Teaching method will include lectures and class discussion, as well as tutorials if warranted by enrolment. Evaluation will be based on two major essays, two play reviews, and a final examination. Participation in a short production may be substituted for a portion of the written work.
Session: Winter Day

ENG360Y English Drama to 1662 | J.M.R. MacInnis
In addition to selected medieval and Tudor plays, there will be special emphasis on Marlowe, seven plays by Shakespeare, Ben Jonson, Webster, Middleton, Tayler, and Ford. Some attention will also be paid to staging techniques and themes from medieval times to the Elizabethan. The Shakespeare texts are: Comedy of Errors, Love's Labour's Lost, Richard II, Much Ado about Nothing, Measure for Measure, Much Ado about Nothing, Measure for Measure, Much Ado about Nothing, Measure for Measure, Much Ado about Nothing, Measure for Measure, Much Ado about Nothing, Measure for Measure, Much Ado about Nothing, Measure for Measure, Much Ado about Nothing, Measure for Measure.
ENG101 English Poetry / A. Thomas
A comprehensive study of forms, modes, themes, and styles of poetry from a number of historical periods. The poems selected for study will reflect the variety of forms in English poetic tradition, including lyrics, medieval ballads, Renaissance sonnets, eighteenth-century couplets, romantic sonnets and modern free verse. Prerequisite: Shakespeare, Donne, Pope, Wordsworth, and Yeats.
The text will be The Norton Anthology of Poetry, Shorter Edition (Revised). Secondary reading will include Frost, Poe, and Wordsworth Poetry (Revised).
Clasess will involve close reading and discussion of selected poems in a seminar group. Students will be expected to prepare and lead seminars in required and to write a short paper and a long essay (2000-3000 words); there will be two class tests or a final examination.
Session: Summer Evening

ENG102 Fiction 1832-1900 / J. Trel
A study of the development of the English novel in the Victorian period. This course will not only engage the student in the reading of the novels, but also in the analysis of the historical, social, and political conditions that informed the novels.
Prerequisite: One full-course equivalent in English
Session: Winter Day

ENG104 Major American Authors / A. Thomas
A study of American fiction from the 19th century through the present day. The course will focus on the major novels and stories of the period, as well as on the social and cultural contexts in which they were written.
Prerequisite: Three full-course equivalents in English
Session: Winter Day

ENG106 Canadian Fiction in English / J. Brown
A study of Canadian fiction, focusing on the relationship between the country and the literature it produces. The course will explore the themes of identity, culture, and politics in Canadian literature.
Prerequisite: Three full-course equivalents in English
Session: Winter Day

ENG107 Canadian Fiction in English / J. Brown
A study of Canadian fiction focusing on the relationship between the country and the literature it produces. The course will explore the themes of identity, culture, and politics in Canadian literature.
Prerequisite: Three full-course equivalents in English
Session: Winter Day

ENG108 Studies in Renaissance Literature / J. Matrion
A survey of major themes and figures in Renaissance literature. The course will cover the works of Shakespeare, Milton, and Donne, among others.
Prerequisite: Three full-course equivalents in English
Session: Winter Day

ENG109 Studies in Eighteenth Century Literature / M. Creelman
An introduction to the major developments in eighteenth-century literature. The course will cover the works of Swift, Pope, and Defoe, among others.
Prerequisite: Three full-course equivalents in English
Session: Winter Day

ENG110 American Modern Drama / M. Tail
A study of American drama from the early modern period to the present. The course will cover the works of playwrights such as Tennessee Williams, Arthur Miller, and Edward Albee.
Prerequisite: Three full-course equivalents in English
Session: Winter Day
ENGC12F History of the English Language / J.D. Woods
A study of the English language, from its roots in the Indo-European language family to the present. The following topics will be discussed: English as a part of Indo-European; Old English (especially Norman French); Middle English; the Renaissance; the "Appeal to Authority," and the period from the Nineteenth Century to the present. Instruction is primarily by means of discussion of the readings, which include sample readings from literary texts. Evaluation is by means of written work (including one or more essays totaling 3000 words) worth approximately 75% and oral work (including seminar presentation) worth approximately 25% of the final grade. Reading for the course will include Albert C. Baugh and Thomas C. Cable, A History of the English Language. Third edition. Toronto: Prentice-Hall, 1978 (and various articles as background reading).
Prerequisites: Three full-course equivalents in ENG, including one at the B-level; or two courses in ENG and one of an appropriate HIS course. LNSA01 or LNSA04
Session: Winter Day

JHC413 Advanced Seminar in Literary Theory and Criticism / E.P. Veceri
A study of literary criticism and theory from Plato to the present, with emphasis on problems of twentieth-century criticism.
In addition to surveying the history of criticism, the student will study such questions as: What is a work of literary art? How does it differ from statement and propaganda? How does one evaluate a work of literary art? What is criticism? How does one evaluate criticism? The major texts will be The Great Critics, ed. Smith.
Students will be expected to contribute to seminar discussions and to lead seminars in their turn. There will be no lectures. Evaluation will be based on the presentation of papers in the seminar, contribution to discussion and two major essays.
Prerequisites: Three full-course equivalents in ENG, at least one at B-level; or three full-course equivalents in literature and permission of instructor.
Session: Winter Day

ENGC415 Senior Essay / E.P. Veceri
A scholarly project, chosen by the student, approved by the faculty in English and supervised by one faculty member. Arrangements with the faculty in English and the supervisor must be made by the student before the end of the pre-registration period in the spring.
The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed:
- By the last day of term, the senior essay should be submitted.
- By the last day of term, the student is to be sent to Professor E.P. Veceri. By November 15th a more specific statement of the area of the project is to be sent to Prof. Veceri including the exact title of the proposed study, and a short description of its subject and method.
After the topic has been approved by the discipline, a second reader will be appointed.
Prerequisites: Open only to students completing the last five courses for the four-year degree who have at least three full-course equivalents in English, at least one at B-level.
Session: Winter Day

ENGC515 Comprehensive Examination / E.P. Veceri
English CIVY courses as a full course in the student's Programme. It will take the form of a reading course under the direction of an adviser. Each student will design his course in consultation with his adviser. In order to identify areas where more reading may be required and possible areas for special study, a checklist of major authors is made available to students in the February of their Third Year. It is not assumed that the student, when he presents himself for examination, will have achieved complete mastery of all the authors mentioned. On the other hand, the list, despite its length, is selective rather than exhaustive and is therefore not intended to set rigidly prescribed limits on the reading for the course. The student in his fourth year will probably familiar with many of the authors through his work in other courses, and the one he makes of the list during that year and in the summer preceding it will depend on his own interests, his previous studies, and discussion with his adviser.
Prerequisites: Normally three full-course equivalents in English, at least one at B-level.
Session: Winter Day

ENGC61F The Shorter Fiction of D.H. Lawrence / M.S. Tai
A study of the short novels and stories of D.H. Lawrence. A detailed study of characteristic themes and techniques in St. Mere, The Fox, The Virgin and the Gypsy, The Captain's Doll, and other stories. Emphasis is upon the ways in which Lawrence's essential ideas are communicated through style, structure, characterization, and imagery.
Teaching will combine lectures and seminars. Evaluation will be based on one essay, seminar report and one end of term test.
Prerequisites: Three full-course equivalents in English, at least one at B-level.
Session: Winter Day

ENGC22S Drama in English Canada 1920-1970 / J.M. Tai
A study of representative plays and the theatrical history of the period. In addition to a close analysis of individual plays, we shall consider the evidences of continuity and tradition in Canadian dramatic writing. The course will focus upon the cultural conditions which have impeded and shaped the development of drama in English Canada. Texts will include: Charles MacTeer, Merril Denison, The Unborn North; Robertson Davies, At My Heart's Core and Overhead; James Ross, The Killers; George Ryga, Indian; David French, Leaving Home.
The teaching method will be seminar discussion. Evaluation is based on one essay, one seminar report, one end of term test.
Exclusions: (ENG813)
Prerequisites: Three full-course equivalents in English, at least one at B-level; or two courses in English and one of: HPEB04, a full-course equivalent in Drama.
Session: Winter Day

COURSES NOT OFFERED in 1980-81
ENGR06Y Victorian Poetry
Prerequisites: ENG061, ENG064, ENG062, or ENG015
ENGB01Y American Literature: An Introduction
Exclusions: ENG066
ENGB14Y Varieties of Fiction
Prerequisites: ENG061, ENG064, ENG062, or ENG014
ENGB25FS The Canadian Short Story
Prerequisites: ENG061, ENG064, ENG062, or ENG014
ENGB21Y Canadian Poetry in English
Prerequisites: One full-course equivalent in English
ENGB21Y Contemporary Literature in English: West Indies, India, Africa and Australia
Prerequisites: One full-course equivalent in English
ENGB21Y African Literature in English
Prerequisites: One full-course equivalent in English
ENGB21Y Modern Poetry
Prerequisites: ENG001 (ENG044), ENG001, or ENG015
ENGB21Y English Literary Criticism
Prerequisites: ENG001 (ENG044), ENG002, and two other full-course equivalents in English
ENGB01Y Advanced Topics in Beowulf and Other Old English Poetry
Prerequisites: ENG001
ENGB21Y Studies in Middle English Language and Literature
Prerequisites: ENG001 (ENG044), ENG002, and one of: ENG001, ENG002, ENG003
Prerequisites: ENG002, ENG001, ENG002
ENGB11Y Studies in Restoration and Eighteenth Century Literature
Prerequisites: ENG001 (ENG044), ENG002, and three further full-course equivalents in English, or one of ENG004, ENG017
Limited enrolments: 15 per section
ENG308Y Studies in Twentieth Century Literature
Prerequisite: ENG340, ENG362, and one of ENG31, ENG32, ENG33
Prerequisite (1983-84): ENG301, ENG340, ENG362, and three further full-course equivalents in English or one of ENG31, ENG32, ENG33

ENG310F Problems in Later Shakespeare
Prerequisite: Three full-course equivalents in English, one of which must be ENG10 or ENG12

ENG313S Paradise Lost
Prerequisite: Three full-course equivalents in English, at least one at B-level

ENG314W Topics in American Literature
Prerequisite: One of ENG310, ENG312; one other B-level full-course equivalent in English

FINE ART
Discipline Representative: M. Guerret
Studio Representative: D. Holton
The Fine Art Curriculum offers courses in the two complementary fields of Art History and Studio. The courses offered in Art History deal primarily with the development of the arts in the West from classical times to the present day. The Studio curriculum has been designed to develop creative thinking and provides opportunities for a first hand acquaintance with materials, forms, and concepts of the visual arts.

Students are encouraged to take relevant courses in other disciplines, such as art history, in order to enhance their background knowledge and to become familiar with a variety of views of fine art.

Students who wish to supplement their knowledge of art history with courses on the St. George campus should also pay careful attention to the requirements described in the calendar of the Faculty of Arts and Science. It should be noted that course offerings are not identical on both campuses, but requirements for a B or 400 level course on the St. George campus can be met in Scarborough by taking an A- or B-level survey in the same area in the upper level course. (See also p. 24 of this calendar.)

Since reading ability of foreign languages is necessary in many advanced fields of Art History, and since a reading knowledge of certain foreign languages is a prerequisite for admission to some upper level Art History courses on the St. George campus, it is highly recommended that students acquire proficiency in one or more languages (French, German or Italian) by the end of their second year.

Students in Studio courses are required to invest part of the cost of materials; they will be required to pay $30 - $50 for materials for each half course.

Recommended courses outside the discipline:

HUMA 11Y The European World: An Introduction to History
HUMA 12Y Greek and Roman Mythology
HUMA 22Y The Age of Pericles
HUMA 225F The Age of Augustus
HUMA 240Y The Age of Nero
HUMA 250Y The Age of Hadrian
HUMA 255F Herodotus: The Most of Action
HUMA 260F "The Odyssey Factor"
HUMA 280Y Orpheus: The Quest for Beauty
HUMA 380Y Introduction to Cinema
PHIL 22F Philosophy and Art
PSY 301F Sensation and Perception
SOCC 201Y Sociology of Art and Culture

*Students should check these courses for prerequisites.

Specialist Programme in Fine Art
Supervisor: R. Sieberth
Students must complete ten full-course equivalents in Fine Art as follows:

(1) One and one half full-course equivalents in Fine Art History chosen from the Classical and Medieval periods
(2) One and one half full-course equivalents in Fine Art History chosen from the Renaissance and Baroque periods
(3) Two full-course equivalents in Fine Art History chosen from the modern period
(4) Five full Studio courses (or equivalent) to be chosen in consultation with the Studio instructor.

(Note: Students seeking type "A" certification in the Faculty of Education require at least nine Fine Art courses, with a balance between Studio and Art History.)

Specialist Programme in Fine Art History
Supervisor: R. Sieberth
Students must complete eleven full-course equivalents as follows:

(1) FARA 10F, FARA 11S, FARA 12F, FARA 13S
(2) One B-level full-course equivalent from each of the following areas:
   Classical
   Medieval
   Renaissance
   Baroque
   Modern (1750 to the present)
(3) Two C-level full-course equivalents in Fine Art History
(4) Two full-course equivalents in cognate fields selected from the list of recommended courses. Other courses may be approved with the approval of the Supervisor.

Major Programme in Fine Art History
Supervisor: R. Sieberth
Students must complete six full-course equivalents as follows:

(1) One full-course equivalent in Fine Art History from each of the following areas:
   Classical
   Medieval
   Renaissance
   Baroque
   Modern (1750 to the present)
(2) One additional full-course equivalent in Fine Art History at the C-level.

Specialist Programme in Fine Art Studio
Supervisor: D. Holton
Students must complete fourteen full-course equivalents: ten in Fine Art Studio, any two full-course equivalents in Fine Art History, and two additional courses in cognate disciplines.

The courses in Fine Art Studio must include:

(1) FARR 10F/S, FARR 11F/S, FARR 12F/S, FARR 13F/S
(3) Three and one half B-level full-course equivalents chosen from the following: FARR 30F/S, FARR 31F/S, FARR 32F/S, FARR 33F/S, FARR 34F/S, FARR 35F/S, FARR 36F/S, FARR 37F/S
(4) Two C-level full-course equivalents.

Students wishing to specialize in either painting or printmaking are advised to select those and one half B-level full-course equivalents in one of these areas, and then to complete two C-level courses in the chosen area.

If entry to graduate school or type "A" certification in the Faculty of Education are to be sought students are advised to consult with the Supervisor.

The two full-course equivalents in Fine Art History should be chosen in consultation with the Supervisor.

Two additional full-course equivalents are to be chosen from the list of recommended courses outside the discipline available from the Supervisor.
FABR28 Wallpainting in Ancient Egypt and the Bronze Age (ca. 3200 B.C. - ca. 1200 B.C.) / M. Shuey

The course will trace the development of painted mural decoration in tombs and temples of Ancient Egypt, and in houses and palaces of Crete, other Greek islands, and Minoan Greece. Models of representation, techniques, and possible inter-relationships between these areas will also be examined. There will be one two-hour lecture weekly. Evaluation is based on one turn-in test (30%), one term paper (40%), and a final examination (30%).

Exclusion: (FABR27)
Session: Winter Day

FABR10F Carolingian and Romanesque Art and Architecture / J. M. Gerners

A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterranean world. The course will consider the major artistic and architectural monuments of Europe from the Carolingian renaissance to the Graeco-Romanesque of the twelfth century. Works will be considered in their geographical context, and in relation to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam, and the art of the Viking period. The impetus of Romanesque and paganism will also be discussed. One two-hour illustrated lecture weekly. Trains to the Royal Ontario Museum. Evaluation is based on an essay, mid-term and final tests, each worth 15% of the final grade. The course texts are: E. Kitzinger, Early Medieval Art; G. Searles, Romanesque Art; R. J. Connell, Carolingian and Romanesque Architecture.

Prerequisite: (FARA11) highly recommended
Corequisite: (FARA11) recommended
Session: Winter Day

FABR29 Baroque Painting in the Netherlands / R. Siebelhaff

An examination of portraiture, landscape and still life in the Dutch Republic from ca. 1640 to ca. 1675. The first few lectures will deal with the geographical and topographical situation around 1640 and will proceed with a historical survey of the arts during the seventeenth century. The class will then explore the origins of Dutch seventeenth century painting by looking at innovations which were made in Flanders and Italy in the late sixteenth century and which prepared the way for the Dutch representation. The approach to art will be the problem-oriented. We will evaluate attributes on documentary, stylistic and iconographic grounds, while attempting to study the works of art of the different artists in an acceptable chronological order. The course consists of two hours of lectures per week with class participation encouraged. Slides and films will be used, and there will be a visit to the A.G.O. Evaluation is based on an examination (35%) and two term papers. The course text is: Rosenberg, Silver and Ter Keure, Dutch Art and Architecture 1600-1800. Harmondsworth, 1972 (paperback edition in The Pelican History of Art series). Students will be provided with a bibliography.

Exclusion: (FABR13)
Session: Winter Day

FABR10Y From David to Delacroix / R. Siebelhaff

Painting and sculpture produced in France between the revolutions of 1789 and 1848. Two prominent artistic movements known as Neo-Classicism and Romanticism will be traced. Special emphasis will be placed on the developments in Paris with its principal painter David and his pupils - Géricault, Ingres, Delacroix and their followers. Interpretations of several subject categories will be studied: in particular historical subjects, contemporary political events and portraiture. From the viewpoint of style, the emphasis will be placed on the different approaches by the Neo-Classicists and the Romanticists to identical subjects. The development of landscape painting will be dealt with as well. Two hours of lecture per week with class participation encouraged. Use of slides and films, visits to the A.G.O. and the Buffalo Gallery. Evaluation is based on two term papers and a final examination (35%).

Exclusion: (FABR13)
Session: Winter Day
FAB215
Impressionism & Modern Art
The development of Impressionism and its impact on Modern Art. The course will commence with an exploration of nineteenth century landscape painting, then establishing the main sources of Impressionism. Thereafter it will focus on those aspects of the work of Manet and Degas which are essential to the movement. Of equal importance are contemporary theories of colour. The background of the individual members of the Impressionist group will be traced until the first Impressionist exhibition. The exhibitions between 1874-86 will be discussed, followed by a selective study of the artists during the last decade of the century.
There will be two hours of lecture per week with class participation encouraged. Use of slides and films, visits to the A.G.O. and the Albright-Knox Gallery in Buffalo. Term examination (50%), one research paper (15%). Bibliography will include John Rewald, The History of Impressionism, N.Y.: MOMA, 1940. Exclusions: (FAB140, FAB151)
Session: Winter Evening
FAB216
Art from 1900 to 1950 / L. Curran
A survey of twentieth century European art and architecture. Cultures and Fashion in France; the German Expressionists; the rise of abstract painting and sculpture; Constructivism and the Bauhaus; Dada and Surrealism; the development of modern architecture. These movements will be discussed in relation to the careers of major painters, sculptors and architects. The course will consist of weekly two-hour slide lectures, and a trip to the Buffalo Gallery. Evaluation is based on an essay and a final examination; their relative importance will be decided in class.
Exclusions: (FAB219)
Pre- or Corequisites: FARA135 recommended but not required
Session: Winter Day
FAB217
New York in the Twentieth Century / L. Curran
A study emphasizing major New York painters and sculptors from the first half of this century.
The course surveys the art scene in New York as the city moved from a somewhat provincial position to a vital awareness of modern European art at the time of the Armory Show in 1913, and eventually became an international art centre after the Second World War. There will be a two-hour slide lecture each week, with class participation encouraged. The class will make a day trip to the Albright-Knox Gallery in Buffalo, and a weekend trip to New York City this can be arranged. Evaluation is based on one essay and one examination in the final examination period. Relative importance of the essay and examination will be decided in class. Bibliography will be discussed in class.
Prerequisites: Recommended preparation or companion courses: FARA13 or FAB48
Session: Winter Evening
FAB220
The Arts in Canada: 1670 to Present / L. Curran
A selective survey of Canadian painting, sculpture and architecture. The course will examine the problem of Colonial art, with concentration on the history of painting. The establishment in the early nineteenth century of a Quebec painting tradition, and later of an independent Canadian landscape school, will be considered in the context of the artists’ contacts with European centres, and the history of patronage in Canada. Twentieth century art and architecture from all regions of Canada will be studied. The course is taught through weekly two-hour slide lectures and visits to important Canadian art collections. Evaluation is based on one essay in each term and one examination in each examination period; the relative importance of these will be decided in class. Bibliography will be provided in class.
Exclusions: (FAB219)
Session: Winter Day
FAB221
Recent Canadian Art / L. Curran
An introduction to the works of major Canadian artists, chiefly painters and sculptors, from the last three decades. Each weekly session will be devoted to the work of either one or two artists of national importance. The course will also examine these painters’ and sculptors’ links with traditions in art. The class will meet for two-hour slide lectures or a gallery talk each week. Taped interviews and films will also be read. Evaluation is based on essay and one examination in the final examination period; their relative importance will be decided in class. The bibliography will consist mostly of exhibition catalogues, and will be discussed in class.
Prerequisites: Another course in specific art is recommended but not required as preparation.
Session: Winter Evening
FAB222
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB225
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB230
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB222)
Session: Winter Day
FAB235
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB236
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB237
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB238
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB239
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB240
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB241
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FAB242
Superior Reading in Art / R. Schelhoff
Exclusions: (FAB230)
Session: Winter Day
FARM8FJ  Introductory Drawing  /  J. Hoogstraaten
An introductory course for students wishing to explore the techniques and concepts of drawing. This course is designed to introduce the student to the essentials inherent in drawing. Three hours per week of studio work including group and individual critiques. The student will be responsible for attending every class, keeping a definite sketchbook and submitting a series of finished drawings at the end of term.
Evaluation is based on a final portfolio and the sketchbook.
Limited enrolment: 20
Prerequisites: FARM90 or permission of instructor
Session: Winter Day

FARM72F  Introduction to Printmaking  (Screen Process Printing)  /  J. Dolman
Materials and methods in colour printing.
This course is designed to introduce the student to the art of printmaking through the use of the silk screen medium. The course will include lectures and demonstrations of the silkscreen, etching, and lithographic techniques of printmaking. The student will be expected to conceive and print several serigraphs. Trips to public and private galleries to view prints will be mandatory. The class will be held three hours every week and evaluation will be based on the finished work and written analyses of prints viewed at the galleries visited. Lab fee $30.00.
Limited enrolment: 15
Prerequisites: FARM90 or permission of instructor
Corequisites: FARM72I
Session: Winter Evening

FARM75S  Intermediate Drawing  /  J. Dolman
An investigation of the creative act of drawing and its use in the development of the artist's personal visual perception.
This course will give Fine Art students an opportunity to expand their knowledge and skills in the art of drawing. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definite sketchbook and producing a number of finished drawings. Evaluation will be based upon the final portfolio submitted. The final portfolio must include all the drawings done for projects, drawings done from the models, and the sketchbook(s).
Limited enrolment: 20
Prerequisites: FARM90 or permission of instructor
Session: Winter Evening

FARM75A  Introduction to Painting  /  J. Hoogstraaten
An introduction to principles and techniques of painting. Emphasis will be placed on experimentation and the investigation of the possibilities of painting.
There will be four days per week of three-hour sessions, involving studio work, lectures and working demonstrations. There will be both group and individual critiques held at appropriate intervals during the course. Students who lack the prerequisite but have some painting experience are invited to apply for permission from the instructor, especially if the class is to be taken without credit.
Limited enrolment: 20
Exclusion: FARM83I
Prerequisites: FARM90 or permission of instructor
Corequisites: FARM90
Session: Summer Day -Summer Arts Programme
(See 1980 Summer Courses and Programmes Brochure)

FARM86  Intermediate Painting  /  J. Hoogstraaten, D. Dolman
A course designed to develop competence in contemporary materials with an emphasis on understanding recent art movements.
Session: Summer Day - Summer Arts Programme
(See 1980 Summer Courses and Programmes Brochure)

FARM77T  Intermediate Painting  /  J. Hoogstraaten
A continuation of FARM76, designed for the student already competent in the use of materials. This course allows the student to explore his or her own direction in painting. It encourages personal experimentation with paint and involves discussion of individual and group problems. Three hours per week of studio work including group and individual critiques, plus trips to art galleries. Evaluation will be carried out as in FARM76 (see Special Programmes Brochure).
Limited enrolment: 15
Prerequisites: FARM76 or permission of instructor
Session: Winter Day

FARM85F  Drawing from the Figure  /  J. Dolman, J. Hoogstraaten
An exploration of some of the aspects of drawing using the figure as the basis for this exploration. This course will develop concepts in drawing the figure as subject matter. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. Evaluation will be based upon the final portfolio submitted. Lab fee $15.00.
Limited enrolment: 20
Prerequisites: FARM74 or permission of instructor
Session: Winter Day

FARM86F  Drawing from the Figure  II  /  J. Dolman, J. Hoogstraaten
A continuation of FARM85. Students who have not taken FARM85 should consult the Supervisor. Lab fee $15.00.
Limited enrolment: 20
Prerequisites: FARM74 or permission of instructor
Session: Winter Day

FARB9F  Introduction to Lithography  /  J. Dolman
An introduction to lithography, editions printing involving a detailed investigation of materials and techniques.
The course will include working demonstrations and lectures explaining and demonstrating the artistic nature of stone lithography. The student will be expected to draw and execute several lithographs. The method will be three hours per week of studio work. The grade will be based upon an evaluation of the actual work completed in the Studio. Lab fee $30.00.
Limited enrolment: 10
Prerequisites: FARM90, FARB72 or permission of instructor
Corequisites: FARM74
Session: Winter Evening

FARB9N  Intermediate Lithography  /  J. Dolman
An extension of FARB9.
The objective of the course is to further explore the art of stone lithography in multi-colour printing. The content, method and evaluation are the same as for FARB9I.
Limited enrolment: 10
Prerequisites: FARM92 and permission of instructor
Corequisites: FARM74
Session: Winter Evening

FARBB4A  Introduction to Etching  /  O. Tatsumoto
An introduction to etching and relief printing exploring the use of materials and techniques involved in the process of creative 'Fine Art Painting'.
Session: Summer Evening - Summer Arts Programme
(See 1980 Summer Courses and Programmes Brochure)

FARB3B  Intermediate Etching  /  O. Tatsumoto
A studio course designed to expand the student's knowledge of etching and relief printing.
Session: Summer Day - Summer Arts Programme
(See 1980 Summer Courses and Programmes Brochure)

FARM90F  Supervised Study in Studio: Intermediate Level  /  J. Dolman, J. Hoogstraaten
These courses may be in any of the fields of drawing, painting and printmaking. Students are required to submit a portfolio along with their prose explaining intended research. The courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to meet with instructors on a regular basis for critiques of work in progress. The proposal submitted to the instructor must specify as clearly as possible the nature of research and experimentation, number of works to be completed, deadlines for projects, and criteria for evaluating the work. They are to do. Students are required to be critical of their own work, to do nothing that they wish. Students are required to prepare for critical group work and to pursue areas of research determined in co-operation with the instructors. Since these courses are usually held in independent study courses, it is impossible for students to participate in independent study courses. Students are required to participate in independent study courses, and should consider how they fit into the final portfolio at the end of term. Students are also advised to speak to instructors as far in advance as possible of submitting proposals.
Limited enrolment: 3
Prerequisites: FARM90, permission of instructor which is based on the evaluation of the proposal and/or portfolio
Session: Winter Day
FARB215 Advanced Studio: Individual Study in Painting / J. Dobson, J. Hooper-Snaes
This course is only for students who have been successful in introductory studio classes and are continuing the work begun in those classes. Students must confirm with the instructor that they are able and willing to assume the responsibility to carry this course without intensive guidance.

The student will have an opportunity to work independently while receiving ongoing, advanced critique from the instructor. The content of the course, methods to be used, and evaluation of work are determined co-operatively by the student and the instructor.

Limited enrollment: 3.
Prerequisites: Permission of instructor must be obtained by the first week of classes.
Session: Winter Day

FARB219 Advanced Studio: Individual Study in Printmaking / J. Holman
The purpose of this course is to give the promising student an opportunity to work independently while receiving advanced criticism. The content, method and evaluation of the course will be decided upon by both the student and instructor. Limited enrollment: 3.
Prerequisites: Permission of instructor must be obtained by the first week of classes.
Session: Winter Day

FARC122F Independent Studies in Studio: Advanced Level / J. Holman
These courses may be in any one of the fields of drawing, painting and printmaking. Limited enrollment: 3 students.

Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for the student who wants to pursue independent study in one of the above areas. Students are required to meet with the instructor at appointed times; however, they are expected to work independently. Content, method and evaluation to be planned in cooperation with instructor.

Prerequisites: FARA70, FARA71; at least one B-level course in the field of study; portfolio demonstrating proficiency in this field; permission of instructors which is based on the evaluation of the portfolio.
Session: Winter Day

FARC195 Independent Studies in Studio: Advanced Level / J. Holman
These courses may be in any one of the fields of drawing, painting and printmaking.

Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for the student who wants to pursue independent study in one of the above areas. Students are required to meet with the instructor at appointed times; however, they are expected to work independently.

Content, method and evaluation to be planned in cooperation with instructor. Limited enrollment: 3.
Prerequisites: at least one B-level course in the field of study, a portfolio demonstrating proficiency in this field, and permission of instructor which is based on the evaluation of the portfolio.
Session: Winter Day

COURSES NOT OFFERED IN 1986-87
FARB407S Archaic Greek Sculpture 600-480 B.C.
FARB408S Classical Greek Sculpture 480-300 B.C.
FARB107S Carolingian and Romanesque Art and Architecture
Pre or Corequisite: FARA11 highly recommended
FARB119S Gothic Architecture
FARB195S Renaissance in Italy
Exclusions: (FARB80), (FARB23)
FARB165S The Arts in Northern Europe
Exclusions: FARB22
FARB193S Studies in the High Renaissance - Michelangelo
FARB221S The Arts in Northern Europe ca. 1400-1500
FARB231S Early Renaissance in Florence 1400-1430
FARB242 Medieval Art, 4th to 14th c.
The following may not count toward a Major Programme in French Language:

(1) any A-level French course except (FREA60) and (FREA62)
(2) FREB11, FREB12, FREB14

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of French. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

See also Specialist Programmes in Modern Languages and Language and Literature.

FREA60Y Introductory French / J. Causs / Staff
A basic course in spoken and written French for students with very little or no background in the language.
Four class hours and one language laboratory hour per week. Evaluation is based on a final exam (1/3) and on term work (2/3), including written and oral exercises, tests and participation in class. Information on the textbook will be available in the College bookstore after June 1, 1980. Students wishing to take this course will be asked to take a placement test to identify those who may have the necessary competence for FREA16.

Exclusion: FREA16
Session: Winter Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA60S Elementary Conversation I
Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French Language. The grade assigned will be Honours/Pass/ Fail. Information will be available at a later date in Room H132A.

Exclusion: FREA16
Consequence: FREA60
Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA61A Elementary French / W.J. Barsby
Spoken and written French studies for students with some background in the language but without Grade 12 High School French.
This is an intensive course meeting eight hours per week, two hours per day, for the first term. Techniques of instruction currently in use in Eastern and Western Europe will be used to accelerate the learning process. The final grade is based on a final examination (1/3) and on a term grade (2/3). Term work will include written and oral exercises, assignments and tests. Consult the College bookstore after May 1980 for details about text(s) to be used.

Exclusion: Grade 13 French or equivalent
Prerequisite: FREA16. For those students who lack the prerequisite, admission to this course is through a placement test to be held soon after the beginning of class.
Session: Full Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA65Y Elementary French / F.S. Maguire
Spoken and written French studies for students with some background in the language but without Grade 12 High School French.
Four class hours per week are devoted to the study of written and spoken French. This course is designed to prepare the student to enter FREA66. The final grade is based on a final examination (1/3) and on a term grade (2/3). Term work will include written and oral exercises, assignments and tests. Consult the College bookstore after May 1980 for details about text(s) to be used.

Please note that the opportunity is provided to take this course in an intensive version in the Spring and during the Summer session (see FREA65A).

Exclusion: Grade 13 French or equivalent
Prerequisite: FREA16. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes.
Session: Winter Day
FREA179/5 Elementary Conversation II
Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. The grade assigned will be Honours/Pass/Fail. Information will be available at a later date in Room H332A. Some background in French is required.
Exclusion: (FREA110)
Corequisite: FREA16
Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA202Y Introduction to Literary Analysis / J. Curtis
An introduction to methods of critical analysis through the study of selected works from the fields of French drama, fiction and poetry of the nineteenth and twentieth centuries. FREA202Y is intended to prepare the student for more advanced study in French and French-Canadian literature. It deals with a wide range of themes, styles and genres, and can also provide, for the non-specialist, an introduction to several major writers of the modern period.
Two hours of classes a week are devoted to lecture-explique; class discussion and student presentations.
There will be at least one written assignment each term, class tests and a final exam; the weighting of assignments will be determined in consultation with students.
Prerequisite: Grade 13 French or equivalent or FREA16 (FREA001)
Corequisite: FREA16 (FREA001)
Session: Winter Day

FREA40A/B Language Practice I / L. Mignault, C. Jennings
This course is designed to help students reinforce and develop their language skills (writing, reading, understading and speaking) which are necessary for taking advantage of upper level courses.
This is an intensive course designed to bring students to the level of entering FREA16 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. The class meets six hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts, debates and other exercises that class and instructor may choose to devise. There are also two laboratory periods a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final grade. The term grade is based on tests, written and oral assignments, class and laboratory participation. For students planning to specialize in French, FREA40B is recommended.
Exclusions: (FREA001), native or near-native proficiency in French
Prerequisite: Grade 13 French or FREA16 (or FREA001 or equivalent)
Session: Fall Day, Spring Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA39Y Language Practice I / C. Jennings and staff
This course is designed to help students reinforce and develop their language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.
The class meets three hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts representing various styles and cultures, composition, debates and exercises that class and instructor may choose to devise. There is also one laboratory period a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final grade. The term grade is based on tests, written and oral assignments, class and laboratory participation.
Please note that the opportunity is provided to take this course as an intensive version either in the Fall or Spring during the day and in the Summer session (see FREA001 or B). For students planning to specialize in French, FREA39Y is recommended.
Exclusions: (FREA001), native or near-native proficiency in French
Prerequisite: Grade 13 French or FREA16 (or FREA001 or equivalent)
Session: Winter Day, Winter Evening

FREA305 Intermediate Conversation I
Intensive practice in the spoken language through controlled situational oral work and discussion groups. The main objective of this course is to free students from their inhibitions when it comes to communicating orally in French. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. The grade assigned will be Honours/Pass/Fail. Information will be available at a later date in Room H332A.
Exclusions: (FREA001, FREA005)
Prerequisite: FREA16 or FREA16 or Grade 13 French
Corequisite: FREA05
Session: Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA340 Language Practice II / C. Evans
A continuation of FREA305, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.
This is an intensive course designed to bring students to the level of entering FREA16 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet six hours per week and there are two laboratory periods. The titles of required textbooks will be available at the College bookstore after June 1, 1980. The final grade is based on a number of written assignments, oral contributions, a mid-term test and a final examination, the weighting of these elements to be determined by consultation.
Exclusions: (FREA001)
Prerequisite: FREA305 or (FREA001 or equivalent)
Session: Spring Day, Summer Day (see 1980 Summer Courses and Programmes Brochure)

FREA34Y Language Practice II / C. Evans and staff
A continuation of FREA305, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.
This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet three hours per week and there is one laboratory period. The titles of required textbooks will be available at the College bookstore after June 1, 1980. The final grade is based on a number of written assignments, oral contributions, a mid-term test and a final examination, the weighting of these elements to be determined by consultation.
Please note that opportunity is provided to take this course as an intensive version in the Spring term and in the Summer session (see FREA305B).
Exclusion: (FREA001)
Prerequisite: FREA305 or (FREA001 or equivalent)
Session: Winter Day, Winter Evening

FREA719Y Intermediate Conversation II / L. Mignault and staff
Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of such major regional variants as found in the Province of Quebec.
The main objective of this course is to free students of their inhibitions when it comes to communicating orally in French. As many opportunities as possible will be provided to practice the language and develop a mastery of relevant vocabulary so as to acquire a reasonable degree of confidence when speaking about everyday life and contemporary topics. One hour weekly for lecturing, vocabulary building and testing; two to three hours weekly for oral practice. Students should arrange to have no other courses scheduled during the times allotted for this course on the timetable. Evaluation is based on participation, tests and a final oral exam (flueney, quality of vocabulary and grammar, pronunciation). The grade assigned will be Honours/Pass/Fail.
Exclusions: (FREA304, FREA344)
Prerequisite: FREA305 or (FREA001)
Corequisite: FREA344
Session: Full Day, Spring Day (see 1980 Summer Courses and Programmes Brochure)
FREB315 | Contemporary French Theatre: The Theatre and the Absurd | J. Jennings

An examination of the philosophical concept of the "absurd" and its influence in modern French Theatre.
Authors studied will include Camus, Sartre, Ionesco, Beckett, Genet and Pigeot. Students are urged to consider taking the companion course FREB390.
The class meets for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation is class is urged.
There will be one to two essays, one oral presentation, one final exam or two quizzes. The weighting of assignments will be determined in consultation with students.
Prerequisite: FREB06 (FREAD1)
Session: Winter Day

FREB325 | Introduction to French Linguistics | J. Evans

A study of the linguistic structure of French and of phonological theories from the beginning of the twentieth century as applied to modern French.
The class will meet for an hour twice a week for lectures, presentations and discussions.
Students will be expected to make short class presentations and write one major research paper. There will be midterm and term tests and a final examination.
Prerequisite: FREB06 (FREAD1)
Session: Winter Day

FREB392 | French Drama of the Eighteenth Century | P. Moris

A study of some of the most important plays of the period with special emphasis on the concept of drama, its styles and techniques, which they illustrate.
The best known plays of the three major theatrical genres - tragedy, comedy and the so-called drama bourgeois - from the core of the course. In addition to reading, analyzing, discussing and appreciating them in their eighteenth century context, the class will look at these plays as practical demonstrations of certain theories concerning the nature of theatre, and what it means to communicate. This in turn suggests that the plays will be considered in their totality, that is, as more than purely "literature".
In the post required texts have included *Turcaret* (Lessing), *Le fatal de l'amour et de l'honneur* (Marianne), *Zaïre* (Voltaire), *Le Mariage de Figaro* (Beaumarchais) and others. For the official list consult the College bookstore. For additional reading consult the College library.
There will be two hours a week of lectures, discussion periods, and presentations. The final grade is based on term essays, a final exam, and a one hour test at the end of term. Weighting to be determined in consultation with the students.
Prerequisite: FREB06 (FREAD1)
Session: Winter Day

FREM395 | French Theatre of the Early Modern Period | J. Jennings

A study of trends in French drama from the late fourteenth century to the Second World War. The course deals with such topics as the realist and surrealism movements, "poetic" drama and the revival of myth. Authors include Bécuque, Jarry, Claudel, Cocteau, Giraudoux, Anouilh and Mounet-Sully.
Students are urged to consider taking the companion course FREB315.
The class will meet for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.
There will be one to two essays, one oral presentation, one final exam or two quizzes. The weighting of assignments will be determined in consultation with students.
Prerequisite: FREB06 (FREAD1)
Session: Winter Day

FREB318 | Contemporary French Theatre: The Theatre and the Absurd | J. Jennings

An examination of the philosophical concept of the "absurd" and its influence in modern French Theatre.
Authors studied will include Camus, Sartre, Ionesco, Beckett, Genet and Pigeot. Students are urged to consider taking the companion course FREB390.
The class meets for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation is class is urged.
There will be one to two essays, one oral presentation, one final exam or two quizzes. The weighting of assignments will be determined in consultation with students.
Prerequisite: FREB06 (FREAD1)
Session: Winter Day

FREM394 | French Classical: Poetry and Prose | J. Curis

A study of the principal works of French literature of the early modern century, with attention to works by such writers as Malherbe, Pascal, Boileau, La Fontaine, La Bruyère, La Rochefoucauld and Mme de Lafayette. The course deals with several major figures whose influence on French thought and literary practice was profound and lasting. Their works represent the development of satire, lyric poetry, the essay and the novel.
Classes, meeting twice a week, will be conducted as far as possible as seminars in French. Methods of evaluation will be discussed at the beginning of the course. Students should expect an exam or series of tests, some essay writing and class participation to count toward the final grade.
Prerequisite: FREB06 (FREAD1)
Session: Fall Evening
FREC206 French-Canadian Poetry
Prerequisite: At least one (completed) B-level course in French, excluding FREB11, FREB12 or FREB14

FREC209 Modern French Poetry from Baudelaire to Valery
Prerequisite: One B-level course in French, excluding FREB11 or FREB12

FREC20F Modern Literary Theorists
Prerequisite: One B-level course in French Literature

GEOGRAPHY

Assistant Chairman: M. F. Bone

The Geography curriculum includes courses on diverse topics having to do with the development of landforms, the evolution and experience of urban and rural landscapes, the management of natural resources, and the spatial expression of economic processes. It therefore offers students a variety of potential themes which can be followed either separately or in combination towards a B.A. or B.Sc. degree.

The Specialist Programme in Geography is designed to give students the flexibility to choose courses that relate to their own interests while providing coherence and direction in course selection and combinations. These Programmes are intended to develop not only geographical concepts but also skills such as cartography and statistical analysis. They provide students with a sound knowledge of the discipline and with a good basis for a career, whether in planning, business, teaching or various government agencies.

Specialist Programme in Geography
Supervisor: A. G. Price

The Specialist Programme in Geography offers the opportunity to explore some aspect of the discipline in considerable depth without sacrificing the breadth that characterizes the discipline. It is possible to obtain a Specialis in Geography by following one of two options.

The Human Settlements option comprises courses that have to do especially with urban and rural development and planning, while the Environmental Geography option is concerned with environmental management issues and the physical systems which underlie them. These two options are by no means mutually exclusive; several courses are listed in both of them and students will be encouraged to take courses from the option other than the one they have selected. However, students who wish to take a B.Sc. must follow the Environmental Geography option.

OPTION A

Human Settlements

The requirements for this Programme are twelve full-course equivalents as follows:

1. GGRA407 and GGRA507
2. GGB05Y or GGB22Y
3. GGRCO1 and GGRCS2F
4. At least three full-course equivalents from GGB01Y, GGB05Y, GGB07Y, GGB13Y, GGB17Y, GGRBY7, GGRBY9
5. At least two and one-half full-course equivalents from GGB04F/S, GGRCS1F/S, GGRCS3Y, GGRCS4Y, GGRCS5Y, GGRCS6F/S, GGRCS7F/S, GGRCS8Y, GGRCS9Y
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

OPTION B

Environmental Geography

The requirements for this programme are twelve full-course equivalents as follows:

1. GGRA407 and GGRA507
2. GGB02Y or GGB22Y
3. GGRCO1 and GGRCS2F
4. At least three full-course equivalents from GGB01Y, GGB05Y, GGB07Y, GGB13Y, GGB17Y, GGRBY7, GGRBY9, GGRB24Y

6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the supervisor.

**Major Programme in Geography**

**Supervisor:** J. Miton

The Programme aims to introduce students to the fundamentals of the discipline, and to provide the opportunity to explore some of the wider range of specialized aspects of the field. The Programme may be taken as a single concentration within a three-year degree or in combination with another Major Programme in a related subject area such as another Social Science, Biology or History. It is also an appropriate supplement to Specialist Programmes at these areas.

The Programme requires completion of the following seven courses:

1. **GGRA01Y** and **GGRA02Y**
2. **GGBR01Y**, **GGBR02Y** or **GGBR02Y** may be substituted
3. At least two full-course equivalents from: **GGBR01Y** or **GGBR02Y**, **GGGR01Y** or **GGGR02Y**, **GGGR01Y** or **GGGR02Y**, **GGGR02Y** or **GGGR01Y**

**GGRA01Y** The Nature of Human Geography / M.F. Bucy

Comparison of the major approaches to human geography: historical process, spatial organization, resources and environment, landscape and culture. The course aims to identify and discuss some of the fundamental concepts of human geography, and to demonstrate the nature of the major approaches to the subject. The course consists of four main sections: (1) human settlements and urbanization, (2) spatial patterns and disparities, (3) environmental and resource use and abuse, (4) modern landscapes and urban design. The teaching method will consist of lectures and tutorials. Evaluation will be based on assignments and two examinations.

*Exclusions:* (GGRA01Y); (GGRA02Y)

**Session:** Winter Day

**GGRA02Y** Introduction to Physical Geography / J. B. Reyn and A.G. Price

An introduction to physical geography. The course is for specialists in geography, but is also suitable for non-specialists interested in obtaining some introduction to physical geography. The course is designed to introduce students to the basic physical environments and processes occurring at the surface of the earth, the interrelationships between systems and the impact of man upon systems.

The content should be of general interest to students in both the physical and life sciences. The teaching method consists of lectures and laboratories. Evaluation will be based on two laboratory assignments, mid-year and final examinations.

*Exclusions:* (GGRA02Y); (GGRA01Y); (GGRA02Y)

**Session:** Winter Day

**GGRA03Y** Geographical Resources / W. Cowie

Problems of resource use with particular reference to their environmental setting: (i) definition and classification of resources, (ii) special problems relating to agricultural resources, (iii) specific aspects of the use of non-agricultural resources, and finally (iv) in an examination of the use, misuse and abuse of resources. Resource issues are examined in two broad contexts: global economic problems and policies: themes and problems in Canadian resource management. The specific subjects discussed include: the world food problem, global patterns of energy consumption and production, use and management of the world's minerals: international responses to resource inequalities: water development and management in Canada, pollution, conservation, environment and the law. Problems of land management in Canada. The teaching method consists of two hours lecture per week. Evaluation will be based on two three-hour examinations, two essays.

*Exclusions:* GGRA04Y or GGRA05Y

**Session:** Winter Day
GGBR1B5 Coastal Geomorphology / B. Greenwood

The coastal zone as a physical environment is immensely variable, complex and extremely fragile. Man’s use of the coastal zone is accelerating at a greater pace than our understanding of the physical processes which occur naturally in the environment. This course is designed to make students aware of the physical nature of the coastal environment, its historical development and the problems which arise from man’s use and abuse of it. The mechanics of coastal processes will be applied to a study of coastal erosion, siltation, pollution, etc. Field trips during the fall term.

Prerequisite: [GGBR1B]
Corequisite: None but GGBR1B0 highly recommended.
Session: Winter Day

GGBR1B7 Rural Geography / M.F. Bruce

Concepts of rurality, evolution and elements of rural settlement, rural resource base, agricultural land use, contemporary issues in rural regions.

A thematic study of the geography of rural environments. Lectures and seminars will examine the distinctiveness of rurality, the evolution, elements and patterns of rural settlement, the rural resource base, agricultural land use, and contemporary issues in rural regions. These themes will be discussed in various cultural contexts. The teaching method will consist of lectures and seminars. Evaluation will be based on assignments, research projects and a final examination.

Exclusion: [GGBR1C2]
Prerequisite: GGBR1A0 students with GGBR1A0 admitted with permission of instructor.
Session: Winter Day

GGBR1B9 General Geomorphology / B. Greenwood and R. Brown

Processes of surface and mass development and landform evolution; weathering processes and soil development; fluvial form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes. Phenocenotic and present day glacial environments, geomorphology as an applied geological field.

The teaching method consists of field excursions, laboratories, lectures. Evaluation will be based on weekly laboratory assignments, mid-year and final examinations.

Prerequisite: GGBR1A0
Session: Winter Day, Summer Day

GGBR2A4 Environmental Pollution / A.G. Price

The physical causes of environmental degradation are treated, with emphasis on the pollution of water systems by human usage. The course outlines the types and sources of major pollutants and suggests strategies to reverse or avoid the detriments caused by them.

The aim is to examine the complexity of the controls in unexplored water-air systems, and to give students an understanding of how the residue of human population and usage of water and solid resources change the controls and degrade the quality of such systems. Teaching method: two-hour lecture and one-hour laboratory per week.

Evaluation: two exams and one major assignment.
Exclusions: GGBR2A5
Prerequisite: GGBR1A0 or GGBR1A5
Session: Winter Day

GGBR2A5 Geographical Methods / M.F. Bruce and A.G. Price

An introduction to basic methods in geography, including elementary data handling, graphic and cartographic representation, map and air photo interpretation, field study and survey methodology. The course is designed to equip students with skills necessary for the analysis of various geographical problems. Teaching method will consist of one two-hour lecture and one two-hour laboratory per week.

Evaluation: two exams and one major assignment.
Exclusions: GGBR1B0. Students who have completed both GGBR2A1 and GGBR2A2 are also excluded from taking this course for credit.
Prerequisite: GGBR1A0 or GGBR1A5
Session: Winter Day

GGBR2B7 Africa: Perspectives in Geography and Development / J.K. Corley

Patterns of regional and national variation in Africa are discussed. Emphasis is placed on the process of historic, ecological and social change, and its impact on the African landscape. Consideration is given to the role of Africa in the modern world economy as well as the patterns and processes of urbanization, industrialization, and regionalization.

The themes emphasized, particular prominence is given to the forces and factors which make the African continent a source of economic, political and social instability. The teaching method consists of one two-hour lecture per week. Evaluation will be based on a final exam and two essays.
Prerequisite: GGBR1A0 or GGBR1A5. Students with a background in other social sciences admitted with permission of instructor.
Session: Winter Evening

GGBR2B9 Supervised Research / Coordinator: B. Greenwood

This course provides an opportunity to engage in a research project under the supervision of an interested member of faculty. The project will culminate in a written report in the form of a dissertation. This may be based upon the results of library or archival research, field study, data analysis or other appropriate methods. Students will meet as a group with the coordinator as well as having frequent contact with their supervisor.
Evaluation will be based upon the research and the written report.
Prerequisite: Any fifteen full-course equivalents. By the end of the year in which the student takes this course, at least eight full-course equivalents in Geography (not including GGBR100) must have been completed.
Session: Winter Day

GGRCMF Urbanization and Residential Geography / J.P. Moore

A study of residential areas in the modern city, with a strong focus on the Toronto region. The overall emphasis is on the manner in which residential geography is a part of, as well as a reflection of, important political, economic and social processes.

The course begins with a consideration of past and present trends in urbanization, and their relevance for regional planning and urban government. The major focus of the course is on residential differentiation, its causes and consequences. The course proceeds to examine the process of residential differentiation, the role of public goods, planning and political processes involved. Each two-hour class will consist of a general lecture, a seminar presentation by a student and a discussion. Evaluation will be based on seminar discussion and an examination.
Prerequisite: GGBR1B0
Session: Winter Evening

GGRCMS Theory and Method in Modern Quantitative Geomorphology / B. Greenwood

Theoretical models of landscape evolution in relation to recent experimental and field studies on geomorphological processes. Students and project work with considerable reading assignments. Limited to 30 enrollees.
Prerequisite: GGRCMS. GGRCMS. GGRCMS. None. GGRCMS is strongly recommended.
Session: Winter Day

GGRCSB Contemporary Issues in the Philosophy of Geography

An examination of the major theories in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, phenomenology, Marxism, conceptual analysis) are also considered.
The aim of this course is to assess the philosophical assumptions behind the various types and approaches of geography, and to demonstrate some of the implications of the most widely adopted approaches. The teaching methods consist of four two-hour lectures in the first half, and in the second half of the term, several seminars will be held. Evaluation will be based on several assignments of papers and books, an essay integrating these, and an examination.
Prerequisite: Any ten full-course equivalents. By the end of the year in which the student takes this course at least five other full-course equivalents in Geography must have been completed.
Session: Winter Day

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Specialist Programme in German Area Studies

Supervisor: H. Oldendorf

The German-speaking areas in Europe have throughout their history exerted a major formative influence on Western civilization. be it in the fields of politics and economics or through their contributions to literature, the arts, and philosophy. Awareness of this significant fact is clearly reflected in a large number of courses in the Social Sciences and the Humanities at Scarborough College.

In order to offer the student of German Area Studies a coherent interdisciplinary plan of study we have grouped these courses below. This is a Programme of twelve full-course equivalents.

Required for every student are the German language courses GER 101Y, GER 102Y, GER 103Y, and two full-course equivalents in German Literature. Four full-course equivalents are to be chosen from one of the core groups A, B, or C. The remaining three full-course equivalents should be selected from groups A - E, excluding your core choice.

A. History

HIS 101Y The European World
HIS 102Y Germany in the 19th and 20th Centuries
HIS 103Y European Society and Culture Between The World Wars
HIS 104Y Western Culture

plus one course from among:
HIS 191Y Europe in the Reformation Era 1500-1650
HIS 192Y Aspects of European Social History 1780-1918
HIS 193Y Europe under the Enlightened Despotism

B. The Arts

MUS 101Y Introduction to Music
MUS 201F Music of the Classic Period
MUS 202F Music of the Romantic Period

plus one full-course equivalent from among the following:

FAR 101F Renaissance and Baroque Art
FAR 102F Caravaggio and Romanesque Art and Architecture
FAR 111FS Gothic Architecture
FAR 112FS The Arts in Northern Europe ca. 1400-1650
FAR 113FS The Arts in Northern Europe ca. 1400-1650
FAR 114FS Rembrandt
FAR 115FS Art from 1800-1900
FAR 116FS Readings in Art History: Marxism and the Arts
FAR 117FS Expressionist Trends in Western Art From Van Gogh to Jackson Pollock
MUS 100S Music of the 20th Century
MUS 101S Music of the Baroque Era
MUS 102S The Symphony
MUS 103FS Bach

C. Philosophy

PHI 101Y Fundamental Questions of Philosophy
PHI 112FS Marx and Marxism
PHI 113FS Existentialism
PHI 114FS Philosophy in the Later Modern Age I
PHI 115FS Philosophy in the Later Modern Age II

plus one full-course equivalent from among the following:

PHI 116FS Philosophy and Art
PHI 117FS Philosophy in Literature
PHI 118FS Philosophy of History
PHI 119FS Existence and Reality
PHI 120FS Philosophy of Science
PHI 121FS Philosophy of Language
PHI 122FS Philosophy in the Early Modern Age I
PHI 123FS Philosophy in the Early Modern Age II
GERA10Y Introductory German / U. Sherman
The fundamentals of grammar and syntax. In this course the students will acquire a basic knowledge of the German language. One comprehensive textbook will be used and a variety of reading materials will be introduced to instill conversation. The students are exposed to the four language skills from the beginning of the course (listening, speaking, reading, writing). They are encouraged to practice these skills in a variety of combinations. There are four hours of intensive grammar and structural work per week. There will be short quizzes, unit tests, and a final examination. Class participation and homework will play a major role in determining the final grade.
Corequisite: GERA99 Session: Winter Day

GERB01Y Language Practice I / H. Oldendorf, H. Wittmann
A practicum offered in conjunction with GERB02Y. The focus is on oral and written composition on the intermediate level. The practicum is designed to increase the students' vocabulary and fluency in German. There are three hours of supervised discussion, essay writing and reading each week. Short essays, vocabulary quizzes and a short oral examination at the end of the year form the basis of evaluation. Class participation will play a major role in determining the final grade.
Prerequisites: Grade 12 OR GERA99 and A10 Corequisite: GERB02Y Session: Winter Day

GERB02Y Intermediate German / U. Sherman
Intensive language work focusing on readings and oral and written composition. The course is designed to expand the active and passive vocabulary of the students through a variety of reading materials. A thorough grammar review accompanies the reading selections. As the course progresses, the emphasis will shift to literary discussions and conversation. Short stories will supplement the textbook. Monographic material on current events will be introduced from time to time to spark class discussion. Three hours of lectures per week. The students are expected to prepare homework assignments and participate in class discussions. There will be quizzes, tests, and a final examination. Class participation will play a major role in determining the final grade.
Exclusion: (GERA10Y)
Prerequisites: Grade 13 German OR GERA99 and A10 Corequisite: GERB02Y Session: Winter Day

GERB03Y Practicum in the History and Structure of the German Language / U. Sherman
A seminar on the history of the German language from the Middle Ages to the present. Working with representative texts from each historical period, students will come to a better understanding of the modalities and structures of contemporary German. Evaluation is based on projects and/or tests and a final examination. Class participation will also play a major role in determining the final grade.
Exclusion: (GERB02Y)
Prerequisites: Grade 13 German OR GERA99 and GERB010 Session: Winter Day

GERB05Y Methods of Interpreting Literature / H. Wittmann
An introduction to the techniques of literary analysis. Poems and short pieces of prose will be analyzed in close reading. Proseody and metrics will be dealt with in some detail; special attention will also be given to the relationship between form and content. In the final section sections of rhetoric, syntax, and style will be investigated in the analysis of prose texts. The course intends to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.
All sessions are informal tutorials; they have free-flowing discussions with a high degree of student involvement. Each student is asked to prepare a number of short presentations which will be evaluated in class. Class participation plays a major part in the final evaluation.
Exclusion: (GERB03Y)
Prerequisites: GERB03Y and B20 Session: Winter Day
GERB607 Nineteenth Century Prose / H. Wittmann
A study of the novels forming on representative works of major writers in the nineteenth century.
The method of the course is both historical and systematic. Works from three major periods of the
nineteenth century will be discussed: Romantik (Kleist, Brentano, Eichendorff); Biedermeier,
(Goldoni, Stifter, Goethe) and Poetic Realism (Dörr-Heilhoff, Meyer, Storm). Georg Bächler's
role as the most innovative writer of his time and as the precursor of twentieth century man will be
assessed. The focal points are the clash between ideal and reality, narrative technique, the history and
the dignity of the novel, the relationship between the evolution of ideas and the character of a literary
work of art, the development of the short prose form in the nineteenth century.
There will be three one-hour seminars/sessions per week. Evaluation is based on short tests and a
paper. Class participation will also play a major role in determining the final grade.
Exclusion: GERB606
Prerequisites: GERB19 and B20
Session: Winter Day

GERB606 Twentieth Century Prose / H. Wittmann
Main literary trends in Germany from the turn of the century to the present.
The course is divided into three parts with the following themes: (i) Crisis of consciousness and
language (Holmesträff, Rilke, Mus, Kafka); (ii) The conflict of art and life (Marx, Hesse); (iii) Art and
morality (Grae, Böll). It intends to show the genesis of modern prose as it emerges from the conflict
between the consciousness of the writer and an increasingly complex reality shaped by the revolution
of science and technology. Its main goals are to explore the resulting attitude of the writers toward
language, the structure of society and the concept of individuality. There will be three hours of mixture
of lectures and discussion sessions per week. Evaluation is based on a number of short quizzes and a
paper. Class participation will play a major role in the final grade.
Prerequisites: GERB19 and B20
Session: Winter Day

GERB798 Features of Post-war German Literature / H. Wittmann
This course will illustrate the resurrection of German literature after the disaster of National
Socialism. Analysis and discussion of literary texts will focus on four major themes: (i) The relationship
of collective guilt and individual responsibility; (ii) language and totalitarianism; (iii) the role of modern
man in a mechanical, affluent society; (iv) the didactic uses of history in modern theatre. The course intends
to enable the student to relate structure, language and content of major examples of post-war literature to
the peculiar socio-political situation of Germany after Auschwitz, and to show the emergence of the
writer as the conscience of a new Germany.
Evaluation is based on short quizzes and one paper. Class participation will also play a major role in
determining the final grade.
Prerequisites: GERB19 and B20
Session: Winter Day

GERC30Y Literature of “Storm and Drang” and Romanticism / H. Ohlendorf
The early dramatic and poetic writings of Goethe and Schiller
Such texts as Götz von Berlichingen and Die Rächer, will be studied along with works by authors such as
Lese, Klinger, et al. The thematic focus is the emerging interest in the Storm and Drang will be shown to
reflect and warn about altered expressions in the critical deliberations of the Schlegel brothers and their
friends, as well as in the poetry and prose of such writers as Novalis, Tieck, Brentano, and Eichendorff.
A seminar course. Evaluation is based on two term papers and one major paper. Class participation
will also play an important role in determining the final grade.
Prerequisites: GERB19 and B20
Session: Winter Day

GERB33, 34F
CM 40, 46S
CMY Supervised Reading / Staff
The course is designed to give senior students an opportunity to follow up on ideas generated during
the more formal courses of instruction. Topics and/or projects are formulated in close consultation
between student and supervisor chosen by student. Informal tutorials.
Two medium length papers or one major paper.
Prerequisites: GERB3
Session: Winter Day

GERMAN COURSES NOT OFFERED in 1980-81
GERB24F/S The Last Hundred Years-German Civilisation from 1870 to the Present
GERB40Y The Development of German Drama
GERB47F Masterpieces of the German Novel
GERB50F/S Nineteenth Century Drama
Prerequisites: GERB19 and B20
GERB50F/S Twentieth Century Drama
Prerequisites: GERB19 and B20
GERB57F/S Modern German Poetry
Prerequisites: GERB19 and B20
GERC13Y Classical
Prerequisites: GERB19 and B20 and one full-course equivalent from among the B-
level literature courses.

GREEK
Courses are offered in introductory Classical Greek, (GRK-A) and GRK-A/B). Greek literature of the
classical period (GRK-B), GRK-C, etc.), and modern Greek (B10Y, B20Y).
GRK41Y Introductory Greek
GRK41AF Introduction to Greek Authors
GRK451S Plato: Apology
GRK401Y Intermediate Modern Greek
GRK50Y Modern Greek Literature
GRK4060B-505F
GRK4060D-509F
GRK404Y Supervised Reading
For further information see under Classical Studies.

Greek and Roman History
The following courses are offered this year:

GRK41Y Greek History from the Bronze Age to the Death of Alexander
GRK41Y Greek and Roman History from the Death of Alexander to the Death of Alexander
GRK41Y Greek and Roman History: Pompel Pompel
For further information see under Classical Studies.
HISTORY

Discipline Representative: M. Eleftheris

The study of history is intended to enhance our understanding of man in society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic; its methods draw from all forms of scholarly endeavor. History courses, therefore, can play a part in a number of interdisciplinary programmes and can serve as an adjunct to courses in Politics, Philosophy, Literature, Economics and Sociology.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HIS100Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in European history. A series of survey courses (HIS102-109) provides a comprehensive foundation of knowledge in their particular areas, and also serves as preparation for more detailed and advanced studies. In upper-level courses students investigate more specific areas, periods, or problems. Course-series are conducted as seminars. In them students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are sequences of courses at all levels in the following areas: Medieval European, Modern European, British, American, Canadian, Russian, and Ancient Greek and Roman.

Specialist Programme in History
Supervisor: A. N. Sheps

Students must complete twelve full-course equivalents as follows:

A. Ten must be in History (HIS or GRT), including HIS100Y and five upper-level courses (HIS101Y-HIS299Y, HIS300Y-HIS496Y, HIS497Y and 499Y level courses in the St. George campus). Of these at least two must deal with the period prior to 1815 (see list). Students are also required to take courses in at least three different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in each of two areas.

B. Two must be full-course equivalents in disciplines other than History and be agreed upon in consultation with the Supervisor.

Pre-1815 courses

LIST A

Full-year courses exclusively within a period before 1815

GR180Y Greek History from the Bronze Age to the Death of Alexander
GR182Y Greek and Roman History from the Death of Alexander to the Gracchi
GR183Y Roman History from the Gracchi to Nero
GR183S Studies in Greek History I
GR183M Studies in Greek History II
GR182Y Studies in Roman History: Pompeii
GR182Y Studies in Roman History
GR182Y Studies in Roman History: Roman Britain
GR182Y Studies in Roman History: Roman Britain
HIS299Y Europe in the Middle Ages
HIS313Y Europe in the Reformation Era, 1500-1650
HIS313Y Tudor and Stuart England
HIS314Y The Beginning of Peace. Constantinople to Charlemagne
HIS315Y Western Europe in the Seventeenth Century
HIS317Y The Renaissance in Europe
HIS314Y The European Mentality in the Early Modern Period
HIS322Y The American Colonies and the British Empire
HIS322Y The Crusades

LIST B

Half-year courses exclusively with a period before 1815

GR100Y Ancient Historiography
HIS248Y* Revolutionary America 1760-1790
HIS249Y* Old Haronis

LIST C

Full-year courses covering a period before 1815 in the first half of the year (equivalent to half-year course credit)

HIS180Y The European World
HIS186Y Russia from the Thirteenth Century to the Present

Students should check these courses for prerequisites.

HIS100Y The European World: An Introduction to History

A survey of European history from the Middle Ages to the present. This course examines the most prominent changes in social and economic organization, in thought and in politics, as Europe developed from a feudal and agricultural to a modern and industrial order. The teaching method is based on lectures and tutorials. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential. Evaluation is based on essays, a term test, tutorial participation, and a final examination.

Session: Winter Day

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LIST A

Full-year courses exclusively within a period before 1815

GR100Y Greek History from the Bronze Age to the Death of Alexander
GR182Y Greek and Roman History from the Death of Alexander to the Gracchi
GR183Y Roman History from the Gracchi to Nero
GR183S Studies in Greek History I
GR183M Studies in Greek History II
GR182Y Studies in Roman History: Pompeii
GR182Y Studies in Roman History
GR182Y Studies in Roman History: Roman Britain
GR182Y Studies in Roman History: Roman Britain
HIS299Y Europe in the Middle Ages
HIS313Y Europe in the Reformation Era, 1500-1650
HIS313Y Tudor and Stuart England
HIS314Y The Beginning of Peace. Constantinople to Charlemagne
HIS315Y Western Europe in the Seventeenth Century
HIS317Y The Renaissance in Europe
HIS314Y The European Mentality in the Early Modern Period
HIS322Y The American Colonies and the British Empire
HIS322Y The Crusades

LIST B

Half-year courses exclusively with a period before 1815

GR100Y Ancient Historiography
HIS248Y* Revolutionary America 1760-1790
HIS249Y* Old Haronis

LIST C

Full-year courses covering a period before 1815 in the first half of the year (equivalent to half-
year course credit)

HIS180Y The European World
HIS186Y Russia from the Thirteenth Century to the Present

Students should check these courses for prerequisites.

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HIS352Y Britain from the Eighteenth Century to the Present / J.P.B. Kenyon
An examination of the political, social, economic and religious forces which transformed an aristocratic society into an industrial power, and of the reasons for the decline of British power in the twentieth century.
The course will be concerned with the problems caused by the transformation of an agrarian into a lightly-industrialized economy, of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlightenment into one constructed on that of Evangelical humanization. It will also consider why, in the twentieth century, the British have abandoned their imperial role and have concentrated on the establishment of a welfare state.
Two lectures and one tutorial per week. Evaluation is based on two essays and a final examination.
Exclusion: HIS389C
Session: Winter Day, Winter Evening

HIS383Y History of the United States / A.N. Sheps
Major theme from the Revolution to the present.
The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism and the United States as a world power. There will be two lectures and one tutorial per week. Participation in tutorial discussions, an essay, and an examination each term will form the basis of the final grade.
Session: Winter Day, Summer Evening

HIS384Y Introduction to Canadian History / J.S. More, J.B. Robertson
An introduction to the history of Canada from the first European contacts to the present.
Topics studied include: exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social and cultural history of the new nation-state established in 1867. There will be two hours of lectures and one tutorial hour per week. Regular attendance at and participation in tutorials are required. Evaluation is based on written work, tutorial participation, and two examinations, one in December and one at the end of the academic year.
Exclusion: HIS389D
Session: Winter Day

HIS385Y Europe in the Middle Ages / M. Gommers
A chronological survey of economic, political, religious and social developments in Western Europe (including Britain) from the late Roman period to the fifteenth century.
The object of the course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization and subsequent expansion of Europe.
Particular attention is paid to the peculiar circumstances which determined national boundaries and which led to the division and conflicts of the modern world, and to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, The World of Late Antiquity; G. Duby, Rural Economy and Country Life in the Medieval West; D. Hay, The Medieval Countryside; R.W. Southern, Western Society and the Church in the Middle Ages; and others. There will be two hours of lectures and one tutorial per week. Evaluation is based on tests (30%), a term paper (30%) and class participation (40%).
Exclusion: HIS389B
Session: Winter Day

HIS397Y Russia from the Thirteenth Century to the Present / E.W. Dover
The Russian people, state, and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present.
Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history. The course will be taught by lectures and tutorials. Evaluation will be based on one exam and one essay each term.
Session: Summer Evening

HIS391Y Europe in the Reformation Era 1500-1650 / J. L. Palfrey
An examination of major themes in sixteenth century Europe, especially social and cultural development.
There will be strong emphasis on the religious issues and institutions which were so important in that period, and on the interaction of those with society and culture. This is a lecture/tutorial course, with period, and on the interaction of those with society and culture. This is a lecture/tutorial course, with two hours of lecture and one hour of tutorial each week. Students will be evaluated on their participation in the tutorial sessions. They will also be required to submit two research papers (of approximately fifteen pages each) and take a two-hour final examination.
Prerequisite: HIS301
Session: Winter Day

HIS394Y Modern France 1750 to the Present / J. B. Alpert
An exploration of the transition from agricultural monarchy to industrial republic.
An exploration of the transition from agricultural monarchy to industrial republic.
Topics will include the revolutionary tradition, the persistence of social conflict, the French sense of national identity, the impact of the French Revolution, and the impact of the French Revolution. There will be two hours of lecture and one hour of tutorial each week. Students will be evaluated on their participation in the tutorial sessions. They will also be required to submit two research papers (of approximately fifteen pages each) and take a two-hour final examination.
Prerequisite: HIS301 or permission of instructor.
Session: Winter Day

HIS397Y Germany in the Nineteenth and Twentieth Centuries / M. Eskow
A thematic treatment of German history from the end of the Holy Roman Empire to the present.
The course will concentrate on social, economic, and cultural interpretations of Germany's political experience.
Teaching consists of two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential. Evaluation is based on tutorial participation, two term papers, and a final examination.
Prerequisite: HIS301
Session: Winter Day

HIS391Y Frontier Communities in the British Empire-Commonwealth: The South African Model / J.P.B. Kenyon
A comparative study of the influences of frontiers on the development of new nations, with special emphasis on the history of South Africa.
Such major issues as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan powers are considered.
Two lectures a week; either one paper of about 3000 words or two papers of 1500 each (67%), final examination (33%).
Prerequisites: HIS382, HIS389A
Session: Winter Day

HIS392Y British Imperialism in India / J.P.B. Kenyon
The impact of imperialism on India.
Topics include the motives behind British imperialism, the problems of administration; the transfer of power; the evolution of the empire; and the transfer of power.
Two lectures a week; either one paper of about 3000 words or two papers of 1500 each (67%); final examination (33%).
Prerequisites: HIS382, HIS389A
Session: Winter Day

HIS393Y Poland and Eastern Slavic States / J. L. Alpert
A comparative study of the historical development of Poland and the Eastern Slavic states.
The course will be taught by lectures and tutorials. Evaluation will be based on one exam and one essay each term.
HIS394Y The Canadian Left, 1887 to the Present / J.R. Robertson
An investigation of farmer, labour, and socialist movements since Confederation. Their roots in the changing social structure, and their political manifestations. The emphasis will be on the twentieth century, and attempts will be made to assess the significance of the international affiliations and/or origins of the various movements, and to account for the unique character of the Canadian Left. In broad terms, the course objectives are (i) to encourage the study of social classes who have been excluded from the hierarchies of power in Canada, and (ii) to examine the ways in which they have organized to protect their interests; and (iii) to explore the relationship between social change and popular, radical, socialist, and other movements.
There will be one two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks throughout the year. Written work will include a final examination and two research papers. Evaluation is based on research papers (40%), examination (35%), and tutorials (25%).
Exclusion: HIS347Y
Prerequisites: HIS304 (HIS309)
Session: Winter Day
HIS364Y The Beginnings of France: Constantine to Clovis / J.H. Corbett
A brief survey of the later Roman Empire in the west, followed by a study of the period from Clovis to Charles Martel. Major topics include: background (Roman Empire and Christian Church); the Age of Conversion (life and letters in late Roman Gaul); the kingdom of the Franks; the world of Charles Martel. Special emphasis will be placed on social, economic and religious aspects of the period. Students will be expected to acquire a general familiarity with the literature on the subject, to choose one topic area each term and present a paper on it, and to develop a personal view of the subject. Two-hour lectures and one tutorial per week. Evaluation is based on two essays and two oral presentations (46%), and one final examination (36%).
Prerequisites: Any B-level course in History or Greek and Roman History
Session: Winter Day
HISC07F
HISC08S Independent Studies / The History Faculty
A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students must regularly with the supervisor to discuss progress in their investigations and complete a 7,000-10,000 word paper for a term course and a 15,000-20,000 word paper for a year course.
Prerequisites: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISCO7 and HISCO8 and by 1 December for HISCO7; See History Supervisor for detailed application procedures.
Session: Winter Day
HISC01Y The Renaissance in Europe / J.J. Ayliffe
An examination of selected problems in European history from the Black Death through the Reformation. Specific problems chosen will be determined largely by the students' own interests within such areas as: the impact of the Black Death; foundations of capitalism; love, marriage, and family; religion; warfare; vision of politics; urban life; Renaissance views of nature and human nature; the arts; printing; the European discovery of the world. A seminar course, in which all students will do core reading in secondary works, and primary works in translation. In addition, each student will have a personal reading list of studies and a variety of topics. Evaluation is based on a number of short (5-10 pages) papers, together worth 80%, and an end-of-term test worth 20%.
Prerequisites: HIS040 or permission of the instructor
Session: Winter Day
HSC4V The European Mentality in the Early Modern Period (1550-1700) / J.L. Pearl
An examination of major cultural-intellectual developments in the sixteenth and seventeenth centuries.
This seminar will focus on the witchcraft crisis and the scientific revolution, which coexisted in this period in a not always antagonistic fashion. Students will do a major research project, based as much as possible on primary sources. Each student will give one oral seminar and write one or two research papers. Evaluation is based on the seminar, presentation(s), class discussion and two one-hour tests. Limited enrolment: 20.
Exclusions: (HISC22); (HISC31)
Prerequisites: One 200-level History course
Session: Winter Day

HISC48S Western Culture / M. Elston
An examination of the social and political foundations of "modernity", using the cultural ferment of Germany between 1818 and 1933 as a model.
Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation. Seminar, with evaluation based on class discussion, a book review, and a research paper. Limited enrolment: 15.
Prerequisites: HISC48 and one 400-level course in History
Session: Winter Day

HISC41V Urbanization and Social Change in 19th Century England / J.P.B. Kenyon
A study of the new social environment created by the growth of cities in an industrial community. Seminar. In the first term students will discuss major issues based on a reading of Briggs" Victorian Cities; they will also write a book report. In the second term students will present a report on their research. Evaluation is based on a major paper (65%), book review (15%) and final examination (20%).
Limited enrolment: 20.
Prerequisites: HISC802 or HISC801
Session: Winter Day

HISC41S Selected Topics in Canadian Religious History / J.S. Mcln
A research seminar examining various themes outlined in HISC44F.
Weekly seminar, with evaluation based on class discussion, essay, and examination. Limited enrolment: 15.
Prerequisites: HISC844
Session: Winter Evening

HISC47Y The Course of Conservation in Canada / W.A. McKay
An examination of the classic assumptions of conservatism and of the Canadian adoption to the movement.
The course will study the pattern of conservative thought in Canada, beginning with the early governors and councillors and continuing through to the emergence of the modernists. This will be a weekly seminar course with emphasis on research and discussion. Evaluation will be based on two term papers and seminar presentations. Preparatory reading: White, The Conservative Tradition.
Prerequisites: HISC804 or HISC805 or HISC806
Session: Winter Evening

HISC42Y The Crusades / M. Gervais
An examination of the Crusades of the eleventh through fourteenth centuries.
This seminar will consider the Crusades as a continuation of Christianity's centuries-old struggle with paganism in the form of Orientalization, and as a papal weapon against heresy and political disunion within Christendom. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitallers, Templars, Teutonic Knights, and associated orders in Spain and north-eastern Europe. During the first semester students will read several from the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have arisen since the completion of Gibbon's Decline and Fall of the Roman Empire in 1781. The second semester will be devoted to a similar reading (in translation) and critical analysis of original Western European, Byzantine, Arab and Jewish chronicles of the crusading movement. Term papers will concentrate on the careful study of a secondary work and a source not covered in class. Bibliography available from Prof. Michael Gervais. Evaluation is based on weekly participation and participation (50%) and term papers (50%).
Prerequisites: HISC806 (HISC804)
Session: Winter Day
Students must complete at least twelve and one-half full-course equivalents as follows:

(1) HUM400Y
   Introduction to Anthropology
   or
   SOC400Y

(2) ANT400Y
   Introduction to Sociology
   or
   STA400Y

(3) AST100Y
   Survey of Astronomy (for non-scientists)
   or
   MAT400Y & 415
   or
   NSC400Y
   Introduction to Physical Science (for non-scientists)
   or
   PHL100Y
   Introduction to Ethics

With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.

(4) HIST400Y
   European World

(5) One full-course equivalent from:
    PHL800Y
    Philosophy of Mind
    or
    PHL800Y
    Philosophy of the Social Sciences
    or
    PHL800Y
    Philosophy of Science
    or
    PHIL800Y
    Philosophy of Science (for non-scientists)
    or
    PHL110Y
    Existence
    or
    PHL110Y
    Theories of Mind

(6) One full-course equivalent in the development of philosophical ideas: PHL800Y to PHL800Y

(7) One full-course equivalent in political thought from:
    PHL800Y
    Society, the State and Citizen
    or
    PHL800Y
    Marx and Marxism
    or
    PHL800Y
    Anarchism
    or
    PHL800Y
    Political Thought from Plato to Locke
    or
    PHL800Y
    Political Thought of Eighteenth and Nineteenth Centuries
    or
    PHL800Y
    Twentieth Century Political Thought

(8) Three full-course equivalents from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one full course must be taken from each of the three areas. A specific list of courses for each area is available from the Supervisor and in the brochure, "The History of Ideas". Alternatively, students may elect to complete the Independent Study Year, HUMC99.

(9) HUMC99

*Students should check these courses for prerequisites.

**College Programme in History of Ideas**

Students must complete at least ten full-course equivalents as follows:

(1) HUM400Y
   Predegree

(2) ANT400Y
   Introduction to Anthropology
   or
   SOC400Y

(3) AST100Y
   Survey of Astronomy (for non-scientists)
   or
   MAT400Y & 415
   or
   NSC400Y
   Introduction to Physical Science (for non-scientists)

HUMANITIES

Discipline Representative: C. Panamureff

The Humanities are concerned with man's never-ending reflection on the human condition, with the development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

The majority of courses in the Humanities are offered by the various disciplines comprising the Humanities Division, and are listed alphabetically under the discipline heading in this calendar, along with the Specialist and/or Major Programme centered on a particular discipline. The Humanities Division, however, also offers a Specialist Programme in the Humanities and a College Programme in the Humanities which involve students in a wide range of Humanities disciplines; these programmes are outlined below. Following these programmes is a list of courses which will appeal to students who wish to explore the Humanities outside the traditional disciplinary framework. For the most part, these courses offer an alternative to examination within current precise national, historical, and disciplinary boundaries, opting instead to reconstruct subjects of interest around a theme which itself transcends its own rational limits. Students may find this a particularly attractive way of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a known historical period, or a movement of broad cultural relevance.

Humansites courses fall into the following broad categories, for all of which HUM400Y serves as a useful, though not always a required, prequisite:

**Civilisation and Culture**

HUM101Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities
HUM102Y The Civilization of Spain
HUM103Y Modern Italy
HUM104Y The Age of Pericles
HUM105Y The Age of Augustus
HUM106Y The Age of Nero
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>HUMB22F</td>
<td>The Age of Honor: World Views from the Late Middle Ages to the Renaissance</td>
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<td>HUMB38Y</td>
<td>Michæelian and Aspects of the Italian Renaissance</td>
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<td>HUMC17Y</td>
<td>The Darwinian Revolution</td>
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<td>CLA20Y</td>
<td>Classical Civilization</td>
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<td>FRE20Y</td>
<td>French Civilization: The Vision of Man</td>
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<tr>
<td>HUMA18Y</td>
<td>Myth, Religion and Reality</td>
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<tr>
<td>HUMA19Y</td>
<td>Introduction to the Study of Religion</td>
</tr>
<tr>
<td>HUMA19Y</td>
<td>Greek and Roman Mythology</td>
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<tr>
<td>HUMA28Y</td>
<td>Beyond Consciousness</td>
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<tr>
<td>HUMA30Y</td>
<td>Primitive Christian Literature and Myth</td>
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<tr>
<td>HUMA28Y</td>
<td>Major Religions, Traditions, East and West</td>
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<td>HUMA38Y</td>
<td>Religion and Western Culture</td>
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<td>HUMB38Y</td>
<td>Heretics: Man of Action</td>
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<td>HUMB38Y</td>
<td>The Ulysses Factor</td>
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<td>HUMC18Y</td>
<td>Opulence: The Quest for Beauty</td>
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<td>HUMC18Y</td>
<td>Atlantis</td>
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<td>HUMC18Y</td>
<td>Utopia: From More to Morey</td>
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<td>HUMC38Y</td>
<td>Fantasy in Narnia and Middle Earth</td>
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<tr>
<td>HUMC22Y</td>
<td>Jesus</td>
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<tr>
<td>HUMC22Y</td>
<td>Paul</td>
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<td>HUMC22Y</td>
<td>John</td>
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<td>HUMC25Y</td>
<td>The University</td>
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**Incertorvity Studies**

- Comparative Mythology

**Literature in Translation**

- Comparative Mythology

**Note:** Full course descriptions will be found under the appropriate language listing in the Humanities Course Descriptions.

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**Specialist Programme in the Humanities**

* Supervisor: P. W. Gooch

The Humanities Specialist Programme is designed for the student who wishes to concentrate his/her work in the Humanities. After an introduction to a wide range of disciplines within the Division, the student has the option (see item 7) of doing more specialized work in a specific discipline or of taking advantage of our wide interdisciplinary offerings (listed under HUM) to develop a less traditional area of specialization.

Twelve and one-half (12 1/2) full-course equivalents are required. As follows:

1. HUMA18Y
2. PHIL30Y
3. HIS40Y
4. Two consecutive courses (two full-course equivalents) in a language foreign to the student
5. One full-course equivalent in the arts: DRA, FAB, MUS
6. One full-course equivalent in literature or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA

Note: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfill one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST may replace one of the requirements 2, 3, or 6.

7. Five further full-course equivalents in Humanities subjects, at least one of which must be at the C level. (For the purpose of the Programme, Mathematics is also considered to be a Humanities subject.) These five courses should focus on one area or theme and should involve some depth of coverage. Students may elect to fulfill this requirement through the Individual Study Year (HUMC93-99Y). Choice of courses must be approved by the Supervisor.

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**College Programme in the Humanities**

* Supervisor: P. W. Gooch

The Humanities College Programme is designed for the student who wishes to concentrate his or her studies in the Humanities. This Programme seeks to develop the critical intellectual skills of the student and to acquaint him with basic forms of approach in several areas of human endeavor. It will accomplish this by developing a coherent group of courses, within the framework established below, for each student registered in the Programme.

- Nine (9) full-course equivalents are required, as follows:
  1. HUMA18Y
  2. PHIL30Y
  3. HIS40Y
  4. One full-course equivalent in the arts: DRA, FAB, MUS
  5. One full-course equivalent in language, literature, or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA

Note: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfill one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST may replace one of the requirements 2, 3, or 6.

6. One full-course equivalent emphasizing major ideas in the sciences or social sciences: ANT10Y, ANT12Y, AST10Y, NSC10Y, NSC10Y, POL10Y, POL10Y, SOC10Y

7. Three further full-course equivalents in Humanities subjects, focusing on one area or theme. (Note: For the purposes of this Programme, Mathematics is also considered to be a Humanities subject.) Choice of courses must be approved by the Supervisor.
HUM413Y 

Prologue* / Coordinators: M.E. Irwin, C. Ponomareff

Twenty books of central importance in Western civilization. A comprehensive examination will be given at the completion of each subset of ten books. There is a one-hour tutorial for each book. The examination will stress the student's ability to relate the books in his own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest lecturers will present aspects of each work through lectures or other media. Fall Term: The Bible (beginning); Homer; The Odyssey; Sophocles; Oedipus Rex; Plato; Symposium; Herodotus, History; Virgil, Aeneid; Augustus, The City of God; Dante, Inferno; Chaucer, Canterbury Tales; Voltaire, Candide. Spring Term: Machiavelli, The Prince; Cartesian, Discourse on Method; Montaigne, Essays; Voltaire, La Correspondance des Lettres; Goethe, Faust; Marx, Communist Manifesto; Darwin, Origin of Species; Freud, Interpretation of Dreams; Wagner, Ring of the Nibelungen.
Note: For information on appropriate editions of these works, see the coordinator. Titles may change if editions become unavailable.

"What's past is prologue" - Shakespeare, The Tempest, I, I.
Session: Winter Day

HUM416Y 

Introduction to the Study of Religion / P. Goeck

An introduction to the academic study of religion, including themes appearing in the classical religious traditions as well as in contemporary quasi-religious movements. Critical examination of various definitions and methods employed in the study of religion.
The first term concentrates on social and corporate aspects of religion, as specific traditions are differentiated in varying cultural environments and develop through changing historical circumstances. The second term's work investigates aspects of individual experience and belief (including mythical and symbolic expressions as well as doctrinal formulations and the philosophical critique of religion). "Para-religious" alternatives and traditional religion in the modern world are also examined. Lecture-discussions on general themes, together with reading, form the basis of the final examination. Tutorials on specific topics provide the context for up to two short papers each term. For reading prior to the course, Hume Smith, The Religion of Man, is suggested.
Session: Winter Day

HUM418Y 

Greek and Roman Mythology / J. Gross

The emergence and treatment of myths and legends in the Greco-Roman world. The course will examine the more important myths and legends and their representation in classical literature, drama, and art, and will be primarily concerned with ancient and modern theories of myth. This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in Classics. Evaluation is based on term tests, a final essay exam, and a two-essay term paper.
Exclusions: SPA400B, SPA400D
Session: Winter Day

HUM419Y 

The Civilization of Spains / J.J. Carty-O'Farall

Examination through readings and discussion of main aspects of the civilization of Spain. Social, intellectual and artistic components of the civilization of Spain from pre-Roman times to the present is reviewed. The students will be asked, by titles and other reference materials. Two hours per week in a lecture/tertiel format. Evaluation is based on class presentations, a final examination, and a term paper.
Exclusions: SPA400B, SPA400D
Session: Winter Day

HUM420Y 

Primitive Christian Literature and Myth / M.E. Irwin

An introduction to the New Testament set against the background of primitive Christianity as it developed in the Jewish and Hellenistic world.
In the first term we will study the historical and religious background of the New Testament and examine the Gospels in depth. In the second term we will study Acts and Paul's letters in depth and examine the rest of the New Testament and the earliest Christian church. The class will meet twice a week. Three section classes will be held, depending on the subject matter. The second term's work will count for 40% of the final examination. The class will meet two hours a week. Class sections will be held in English, depending on the subject matter. Final examination: Pass/Fail. The texts will be The New Testament in a modern version (e.g., RSV, JB, NEB, NIV); Bruce M. Metzger, The New Testament, its Background, Growth and Content (New York: Philadelphia & New York: Alfreda 1963); B.H. Robinson (ed.), Gospel Parallel: A Synthesis of the First Three Gospels (New York: Thomas Nelson 1977); K.N. Langanke, Paul, Apostle of Liberty (Baker Book House 1974); Calvin J. Roemaker, The Letters of Paul (Contraversions 1970).
Prerequisites: No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.
Session: Winter Day

HUM421Y 

The Age of Pericles / J. Grant

A study of the history, literature, and art of Athens in the fifth century B.C. The course will concentrate on the second half of the fifth century. The topics studied will include the leadership of Pericles, the development of democracy in Athens as an imperial power, the confliction of Socrates, the rise of the sophists, the architecture, sculpture, and vase painting of the period. A selection of the literary and dramatic works will also be studied in translation. Most of the assignments will be written in several short papers, a midterm test and a final examination.
Session: Winter Day

HUM428Y 

The Age of Nero / J.R. McDonald and Sniff

Nero's Rome, as it is reflected in the art, architecture, and literature of the day, and in the accounts of later Roman authors.
The course provides an introduction to imperial Rome, a controversial Empire, and the striking cultural milieu over which he domineered. It asks what ideas are expressed in Roman art, how for the Emperor controlled their expression; and how far the culture for courtiers and their countrymen was shaped, or was shaped by, the forces of a largely hierarchical Empire. A lecture forum will be launched, with frequent use of slides and some opportunity for discussion. Evaluation is based on a two short written assignments and a final examination.
Session: Winter Day

HUM429Y 

Religion and Western Culture / A. Davies

The encounter between religious faith and Western society since the sixteenth century Protestant Reformation.
The course analyzes the influence of religion on society and of society on religion as reflected in the ideas of selected religious thinkers. It examines the attempt of religion to interpret, criticize, and transform society especially in the light of the social crises of the 20th century. It is a lecture course, with essays and term test. Selected readings from H. Richard Niebuhr, Christ and Culture and Radical Monstrosity and Western Culture, and from Alain Badiou, Religion and the Future.
Session: Winter Day

HUM434Y 

Disaster and the Literary Imagination / C.V. Ponomareff

An exploration of the historical impact of Nazism and Stalinism, totalitarianism and war on the post-war literary imagination of Soviet Russian and West German writers at the metaphorical level of artistic perception.
The course will also examine the social and cultural relevance of creative writing in response to periods of social crisis. Five authors will be studied: W. Borchert, Ch. Allmayer, G. Grass, G. Pasternak, H.C. Nolst Trenite. Class will consist of lectures and discussion. Evaluation is based on one minor project, one final exam and class participation.
Exclusions: (HUM430Y)
Session: Winter Day

HUM444Y 

Literary Theory and Feminism / J. Samuels

A discussion of the implications of a primarily male-dominated literary tradition. Examples will be drawn from English, American, Canadian, and European literature. The purpose of the course is to consider the problem of a literary tradition in which the centre of human consciousness is predominantly male and in which “woman” is usually regarded as the ‘other’.
The course is exploratory in nature, and in consequence, student participation is particularly important. Texts will include Kate Millet’s Sexual Politics and Sappho’s Words and Women. Evaluation is based on papers and term papers.
Session: Winter Day

HUM450Y 

Introduction to Cinema / M.Q. Schuberg

An introduction to the vocabulary of film criticism, major aesthetic approaches and general history (silent and sound).
Course content and methods of teaching and evaluation will be discussed at the beginning of the course. Limited enrollment: 40.
Note: There is a screening fee of $20.00 for this course.
Session: Winter Day

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HUMC105 Lyric Poetry of the Middle Ages in the Mediterranean Area / R. Bittar
A comparative analysis of the representative texts or collections of texts from Hispanic-Arabic, Galo-Portuguese, Catalan, Provencal, Catalan, Sicilian and Italian sources. Close reading of texts will be supplemented by lectures concerning Classical and Medieval Rhetorics and Acts of Poetry, vernacularism, metrics and Latin Medieval rhetorical terminology. Texts will be presented in original with accompanying English translations. Lectures and discussion in English. Evaluation is based on one term test, one term paper, and class participation. Pre-requisites: One B-level course in either Romance Literature or English Literature. Session: Winter Day

HUMC108 Humanities Seminar / Coordinator: P. Gough
A special half-credit seminar course, taken normally after the completion of ten credits. Each member of the seminar gives a report of individual projects undertaken by him. This seminar is required for those registered in the Specialised Programme in Humanities and in the History of Ideas, and in the College Programme in Myth and Religion; it is taken after completion of ten full-course equivalents. It is available to students registered in the programmes in Renaissance Studies. Topics for the seminars should be chosen in consultation with the Supervisor. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines. Evaluation is based on two term papers (or one longer paper) and the seminar performances. Pre-requisites: Any ten courses. Session: Winter Day

HUMC117 The Decline of the Western Roman Empire / P. P. Thomson
An examination of the impact of Darwin's The Origin of Species on biology and society. This course will examine the influences which helped shape the first drafts of the theory of natural selection. The logical structure of Darwin's argument in The Origin of Species; the development and structure of the modern synthetic theory of evolution and the impact of evolutionary theory on modern biology. The presentation will be a lecture/seminar format. Evaluation will be based on three essays and two examinations. Pre-requisites: BIOL 600 or BIOL 611 or PHIL 670 or PHIL 671.F and permission of the instructor. Session: Winter Day

HUMC118 Romance Philology / R.L. Breen
An introduction to the history, development and present state of the Romance family of languages from their development out of late spoken Latin to the present day. Emphasis will be placed on the roles of the Romance languages as literary and national tongues. The changes caused by separation of the vernacular tongues from later Latin and by the creation of new national languages in the Middle Ages will be discussed. Stress will be put on lexical, grammatical, and stylistic comparisons and contrasts. This will be primarily a lecture course with discussion where appropriate. Evaluation will be by a mix of essay questions and papers; interest and time permit, some of these papers will take the form of class performances. Readings will principally be from the textbook, W.D. Echols, The Romance Languages, or a similar text. Pre-requisites: LENG 201; two full-course equivalents, one of which must be at the B-level, in one of the following languages: French, Italian, Latin, or Spanish. It would also be an asset, but it is not a pre-requisite, to have some knowledge of Latin and/or a second Romance language. Session: Winter Day

HUMC135 Advanced Seminar in Literary Theory and Criticism / I.E.P. Vicat
A study of literary criticism and theory from Plato to the present, with emphasis on problems of the twentieth century. In addition to surveying the history of criticism, the student will study such questions as: What is a work of literary art? How does it differ from art and propaganda? What is criticism? How does one evaluate a work of literary art? How does one evaluate criticism? The major text will be The Great Critic, ed. Winter Day. Students will be expected to contribute to seminar discussion and to attend seminars in their turn. There will be no lectures. Evaluation will be based on the presentation of papers in the seminar, contribution to discussion and two major essays. Pre-requisites: Three courses in English, at least one at B-level; or three courses in literature and permission of instructor. Session: Winter Day

HUMC199 Contemporary Fiction and its Backgrounds / S. Miller
A study of important twentieth-century English, French, Latin American, Russian, German and Italian works of fiction. Attention will be focussed on modern innovations in narrative techniques, including the reader's creative participation and the representation of subject matter in the framework of time and space. Prose examined will include Gide's The Immoralist, Bulgakov's The Master and Margarita, Graf's Cat and Mouse, Forster's The French Lieutenant's Woman, and short stories by Borges, Cahnio and Joyce. Students with reading knowledge of a foreign language are encouraged to read in the original. The course will be a continuation of lectures and discussion. Evaluation will be based on one term paper, a brief paper and/or seminar presentation, and a final examination. Pre-requisites: One B-level course in literature or permission of instructor. Session: Winter Day

HUMC55.99V Individual Study / Staff
An opportunity for advanced students to spend a year following their own studies under the supervision of a committee of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen area, and will take an oral examination at the end of the year before an appropriate board of faculty. Those interested in enrolling should contact the Divisional Chairman by the end of May 1980. (For a year of individual study, students must enroll in all five courses. Those who wish to take Individual Studies should consult disciplinary listings.) Pre-requisites: Permission of the Division of Humanities Committee on Individual Study.

HUMANITIES COURSES NOT OFFERED IN 1980-81

HUMB80Y The Bloomsbury Group
Pre-requisites: Normally three courses selected from Art History, Economics, English, Philosophy or Political Science at least one of which should be in English Literature.
Exclusion: HUMB30

HUMB117 The Russian Revolution of 1917: Promise and Fulfillment, Ideas and Reality
Exclusion: HUMB30

HUMB117 The European Experience: Man and Society in the Twentieth Century French and Italian Novel
Exclusion: HUMB30

HUMB185 Modern Italy
Exclusion: ITAL10

HUMB195 Beyond Countiesmen
Exclusion: HUMB33

Pre-requisites: One course in psychology, philosophy, or literature

HUMB239 The Age of Augustus

HUMB257 The Age of Homer

HUMB275 Science Fiction

HUMB38V Major Religious Traditions, East and West

HUMB39Y World Views from the Late Middle Ages to the Renaissance
Exclusion: HUMB60

HUMB394/5 Heretics: Man of Action
Exclusion: HUMB35

HUMB395/6 "The Ugly Factor"
Exclusion: HUMB35

HUMB39Y Orphans: The Quest for Beauty
Exclusion: HUMB35

HUMB395/6 Atlantis
Exclusion: HUMB39

HUMB395/6 English From More to Huskey
Exclusion: HUMB39

HUMB395/6 Fairy in Marius and Middle Earth
Exclusion: HUMB35

HUMB40Y Russian and English Nineteenth Century Fiction
Exclusion: HUMB30

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ITALIAN

Discipline Representative: A. Franceschetti

Scudder College offers a wide range of courses in the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITAL 01 or ITAL 02. ITAL 01 students may then take ITAL 02, which is a prerequisite for literature courses as well as for the more advanced language courses. Students with Grade 13 Italian (or equivalent) and students from ITAL 01 may take ITAL 11 as a prerequisite for literature and more advanced language courses. In all courses, emphasis is given to the spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian in addition to his plan of study or as an enrichment of his total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, and Spanish literature.

Students enrolled in Italian, some of whom may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students are not allowed to take any A-level courses in Italian while taking or after completing any B-level course in Italian.

Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Major Program in Italian Language

Supervisor: C. Katz

The Major Program in Italian Language consists of seven full-course equivalents, as follows:

Option A (for students who have no prior knowledge of Italian or its dialects):

(1) ITAL 01Y Introductory Italian
(2) ITAL 02Y Introductory Italian Language Practice
(3) ITAL 03Y Conversation II

Option B (for students with some prior knowledge of Italian or one of its dialects):

(1) ITAL 11Y Elementary Italian
(2) ITAL 03Y Conversation II
(3) ITAL 12Y Intermediate Italian II
(4) ITAL 04Y Advanced Composition
(5) ITAL 05Y Intermediate Conversation II
(6) ITAL 06Y Practical Translation
(7) ITAL 07Y Language Practice
(8) ITAL 08Y Modern Italy
(9) ITAL 09Y Introduction to Modern and Contemporary Italian Literature
(10) LIN 00Y General Linguistics

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Italian. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

See also the Specialist Programmes in Modern Languages and Language and Literature.
ITAL40H1 Introductory Italian
An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.
Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking, needed for the conversative course ITA40H. The basic Italian textbook is supplemented by notes. A program is also provided in the language laboratory for those who wish to make use of it outside the classroom, and write monthly exams. There are three hours of class per week. Further information will be available later in Room 1025A.
Exclusions: ITA40H
Concurrent: ITA40H. It is strongly recommended that students enrolled in ITA40H and ITA40H take ITA40H concurrently with them in the Spring term.
Session: Winter Day

ITAL42H1 Introductory Italian Language Practice
Practical application of the language structures introduced in ITA40H and ITA41H.
As with the conversative, 40H, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The two-hour weekly of class time is devoted entirely to converting in Italian confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest. The grade is based on classroom participation, oral reports, and oral examinations. The grade assigned will be Honours/Pass/Fail. (See above, p. 22)
Further information will be available later in Room 1025A.
Exclusions: ITA40H
Concurrent: ITA40H
Session: Winter Day

ITAL49S Conversation II / S. Miller
Practical application of the language structures introduced in ITA40H and ITA41H.
As the conversative, it is our aim to provide a relaxed, informal classroom atmosphere. Conversations are based on situations that the student is likely to encounter in Italy as well as on readings prepared at home from literary works, newspapers, and magazines. Among the topics chosen are the geography, history, politics, economics, and cultural life of contemporary Italy. Students are expected to participate in classroom discussion, make oral presentations, and take an oral examination. There are three hours of class per week. The grade assigned will be Honours/Pass/Fail. (See above, p. 22)
Exclusions: ITA40H or ITA41H
Concurrent: ITA40H or ITA41H
Session: Winter Day

ITAL61Y Elementary Italian I / G. Katz
An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.
This course aims at providing students with the knowledge of Italian grammar, reading and writing Italian. The main emphasis will be on the grammatical, lexical and cultural difference from English. Grammar rules will be studied and students will be expected to use the courses. The course will be conducted in Italian. There will be three hours of lectures per week; the use of the language laboratory is highly recommended. Evaluation is based on oral and written exams, class participation and work done at home.
Exclusions: ITA40H
Concurrent: It is strongly recommended that students enrolled in this course take ITA40H concurrently with it.
Session: Winter Day

ITAL61Y Intermediate Italian I
A continuation of ITA61Y. Intensive review of the grammar, with drills, exercises and compositions. The course concentrates on explaining and practising the more difficult parts of Italian grammar.
This course will interrelate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write about the readings discussed in class. The course will be conducted in Italian whenever possible. There will be three hours of lectures per week. Evaluation is based on six written exams (30%); oral participation and work done at home (compositions and written grammar exercises, 30%). Further information will be available later in Room 1025A.
Exclusions: ITA61H and ITA61B
Concurrent: It is strongly recommended that students enrolled in this course take ITA61H and ITA61B concurrently with it.
Session: Winter Day

ITAL61Y Intermediate Italian II / G. Katz
A continuation of ITA61B. The same evaluation is used as for ITA61B. The grade assigned will be Honours/Pass/Fail. (See above, p. 22)
Exclusions: ITA61B
Concurrent: ITA61H or ITA61B
Session: Winter Day

ITAL61Y Intermediate Italian II / G. Katz
A continuation of ITA61Y. The course concentrates on explaining and practising the more difficult parts of Italian grammar. The course will interrelate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write about the readings discussed in class. The course will be conducted in Italian whenever possible. There will be three hours of lectures per week. Evaluation is based on six written exams, class participation and work done at home.
Exclusions: ITA61H and ITA61B
Prerequisites: ITA61H; Grade 13; or equivalent
Concurrent: It is strongly recommended that students enrolled in this course take ITA60H and ITA60B concurrently with it.
Session: Winter Day

ITAL61Y Modern Italy / G. Katz
An introduction to the events and ideas which have contributed to the making of modern Italy. The course is conducted in Italian. It aims to help the student understand the complex social and cultural milieu in which life is conducted in present-day Italy. Readings from various sources are used in the classroom discussion and make use of one presentation. At least one essay on a topic agreed upon with the instructor, and write a final essay.
Exclusions: HUMB10
Prerequisites: ITA61H or ITA61H or ITA61B
Session: Winter Day
ITAL222: Introduction to Modern and Contemporary Literature by I. Mitter
An introduction to the reading of literary texts designed to aid the student in the comprehension, analysis, and enjoyment of Italian literature.

ITAL235: Survey of Italian Literature from the Middle Ages to the Renaissance by G. Kat
A selection of major figures and periods of Italian literature will be discussed from the point of view of three basic themes: "woman," "narrative," and "society."

ITAL341: Dante and Medieval Culture by A. Francoschetti
An introduction to Medieval Italian literature with special reference to Dante. This course aims to introduce the student to the problems, mentality, social and cultural patterns of man in the Middle Ages with specific reference to literary phenomena such as Provençal lyrics and Old French poetry and epic. The origins and development of medieval literature will be examined, leading to the study of Dante and the art of the Middle Ages. The course will include a brief survey of Dante’s major works and their significance in terms of the life and culture of the times. There will be three hours of lectures with discussion per week. Class participation and student’s comments are strongly encouraged. The final mark is based on term tests, an oral report, and class participation.

ITAL355: The Renaissance by A. Francoschetti
A brief survey of the origins of epic poetry in the Middle Ages will precede the study of the masterpieces of the Renaissance Epic: Palma’s Morgante, Boiardo’s Orlando Innamorato, and Ariosto’s Orlando Furioso. This course aims to give the student an adequate knowledge of the artistic and cultural significance of the masterpieces of Italian Renaissance literature. Selected passages from the three poems will be read and discussed in class. The lectures will stress Palma’s classical and humoristic attitudes towards chivalric institutions and customs, Boiardo’s idealistic vision of man, and Ariosto’s participation in both these attitudes as well as his role as “inventor of the modern novel.” There will be three hours of lectures with discussion per week. The final mark is based on term tests, an oral report, and class participation.

ITAL360: Neorealism and Baroque Literature by A. Francoschetti
The creation of a new lyric expression in Tancredi’s Gerusalemme Liberata and other poetry; its development in Marino and the Mantuan.

ITAL391: Language Practice by A. Francoschetti
An advanced language course focusing on complex problems of Italian grammar, with readings, translations, and compositions. This course is designed to give the student an opportunity to improve his knowledge of written and oral Italian on an advanced level. Specific points of grammar, syntax, and style will be discussed and exemplified with drills and exercises. Students will be asked to write their compositions. A selection of passages from modern Italian literature will be assigned. There will be three hours of classes per week. The final mark will be based on tests, class participation and work done at home and oral presentations.

ITAL400: Advanced Composition
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL403: Advanced Translation
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL412: The Twentieth Century Novel
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL413: Modern Italian Poetry
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL429: Modern Italian Theatre from Pirandello to the Present
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL432: Petrarch and Boccaccio
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL433: Machiavelli and Renaissance Thought
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL455: Italian Renaissance Comedy Theatre
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL460: Lyric Poetry of the Renaissance from Petrarch to Michelangelo
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL481: Italian Eighteenth Century Theatre
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL483: Sansovino
Prerequisite: ITA301 or ITA301b (or ITA302)

ITAL484: The Nineteenth Century Italian Novel in Translation
Prerequisite: ITA301 or ITA301b (or ITA302)
LATIN

Courses are offered in introductory Latin (LAT401, LAT101 and Latin literature (LAT201, LAT203, etc.).

LAT401  Introductory Latin
LAT101  Introduction to Latin Authors
LAT201  Cato
LAT205  Cicero
LATB105  Superb Reading
LAT810  Independent Studies

For further information see under Classical Studies.

LINGUISTICS

Discipline Representative: D. Woods

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LIN2B1, LIN2B2, and LIN2B4). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LIN2B1, LIN2B3, LIN2B5 and other courses.

Language is, of course, of interest to many people who use it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LIN4A4, LIN4B9, LIN4B2 and LIN5B2.

Specialist Programme in Linguistics

Supervisor: R.J. Birtwistle

The Specialist Programme in Linguistics may be taken in one of three ways, depending on whether the student wants to focus on general linguistics, psycholinguistics, or sociolinguistics. Each involves a core of four basic full-course equivalents, as follows:

1. LIN1A4Y General Linguistics
2. LIN1B1Y Syntax and Semantics
3. Two of:
   - LIN2B9F Phonetics
   - LIN2B2S Phonology
   - LIN2B4S Historical and Comparative Linguistics
4. LIN2C1Y Structure of a Language
   - LIN2C2Y Comparative Study of a Language Family or Area

In addition to these, students must choose one of the following three areas of concentration:

1. General Linguistics Concentration
2. Sociolinguistics Concentration
3. Psycholinguistics Concentration
4. Developmental Psycholinguistics
5. Animal Communication
6. Further full-course equivalents in Linguistics, not to include LIN2A4F/S

(1) One full-course equivalent from among the following courses:

ANTIB9Y Language and Culture
ENGB1Y Old English Language and Literature
FREB25Y Introduction to French Linguistics
FREB45S* General History of the French Language
FREB45S* The French Language in Canada
FREB45S* Theoretical and Practical Phonetics
GERB30Y History of German

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II. Psychology/Linguistics Concentration:

Students must complete ten additional full-course equivalents, to be constituted as follows:

(5) Two of:
   - JLRB35: Psycholinguistics
   - LINB15: Developmental Psycholinguistics
   - LINB25: Animal Communication

(6) Two further full-course equivalents in Linguistics, not to include LIN406FS

(7) PSY401Y

(8) Four full-course equivalents from among the following:
   - PSYB05: Data Analysis in Psychology
   - PSYB25: Developmental Psychology
   - PSYB45*: Learning
   - PSYB46: Sensation and Perception
   - PSYB51F: Perceiving and Knowing
   - PSYB55*: Human Information Processing
   - PSYB75*: Human Learning and Memory
   - PSYB85F: Brain Mechanisms and Behaviour: I
   - PSYB86F: Biological Foundations of Behaviour

* Students should check these courses for prerequisites.

(9) Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student’s native language. If (b) is chosen, the student may satisfy the requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

Students are also encouraged to complete a course in Calculus or Statistics.

III. Sociolinguistics Concentration:

The student must complete nine additional full-course equivalents, to be constituted as follows:

(5) All of the following:
   - LINB07: Sociolinguistics
   - SOCABY: Introduction to Sociology
   - SOCB05: Methods in Social Research

(6) Two of:
   - SOCB07: Social Stratification
   - SOCB15: Canadian Society
   - SOCB85: Social Change

(7) Two further full-course equivalents in Linguistics, not to include LIN406FS

(8) Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student’s native language. If (b) is chosen, the student may satisfy the requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

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LIN3085 Historical and Comparative Linguistics / J.D. Woods
Language change and language relationships: linguistic typology; language universals; language families. Topics for study include: models of language development (neogrammatist, structuralist, transformational generativist); language contact: dialect geography, social motivation of language change, contact between languages; language phylogeny. Tentative choice of text: Byrnon, Theorem. Historical linguistics, New York: Cambridge University Press 1977 (plus various articles). Three hours a week. Evaluation to be based on two or three term tests and class participation; exact percentages to be worked out at the beginning of the course.
Exclusion: LIN8B1
Prerequisite: LIN4A1
Session: Winter Day

LINB247 Sociolinguistics / S. Whitehead
The structure and use of language as it relates to social and cultural functions. The application of sociolinguistic research to Canada will comprise approximately half of the year's work. The course has a twofold objective: theoretical and practical. The theoretical part deals with the speech situation, social implications of speech varieties, language maintenance, loss and multi-linguism, role of language in shaping national identity and influencing political boundaries. On the practical side, students participate as a group in actual research, collecting and analyzing data and preparing a report of their findings. The text will be: T.J. Platt & H.K. Platt, The Social Significance of Speech, North Holland Publishing, 1973. Evaluation will be based on the basis of three term tests, class presentations and participation in research.
Prerequisite: LIN4A1 or LIN4A6 or SOC4A1 or SOC4A2
Session: Winter Day

LIN3095 Phonetics / J.D. Woods
The physiological and acoustic bases of language. An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved. Tentative choice of text: Liberman, Speech. A Course in Phonetics, New York: Harcourt Brace Jovanovich, 1975 (plus various articles). Evaluation will be based on class participation and tests; exact percentages to be worked out at the beginning of the course.
Prerequisite: LIN4A1
Session: Winter Day

LINB274 Syntax and Semantics / R.J. Bierwisch
The study of sentence structure, including the major grammatical processes, e.g. transformational rules, the principle of the cycle, the relationship between syntax and semantics, grammatical and lexical.
Prerequisite: LIN4A1 or LIN4A6
Session: Winter Day

LINB285 Developmental Psycholinguistics / P.H. Salas
The development of the faculty for speech in childhood. Acquisition of a first language. The nature of the prerequisites for speech and writing. This course is a continuation of JLPS25.
All you always wanted to know about how kids learn to talk, but were afraid to ask. There will be lectures and discussions. Evaluation will be based on a series of one-hour tests, three brief (three page) papers and one final examination.
Prerequisites: One full-course equivalent in LIN, PSY, SOC or ANT
Session: Winter Day

LIN377F Animal Communication / P.H. Salas
The ways in which various non-human species convey information. Crickets and bees, fish, songbirds, geese, canines, and primates other than man will be studied. Visual, olfactory and auditory modalities.
Where do bees find nectar? How does a coyote find his mate? Which wolf is boss? Why do fish school? How does a stickleback know where he is in foreign territory? "Who are clever Hans, Vic, Gus, Sarah, Washoe, and Lisa? Who are Lorenz, Smith, Thorpe, Turvey, and von Friesch?" There will be lectures, discussions, and films. Evaluation will be based on at least one re-class test, a paper, and a final examination.
Prerequisite: One full-course equivalent in LIN, PSY, SOC, or ANT
Session: Winter Day

JLPB585 Psycholinguistics / P.H. Salas
The course presents theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.
The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and Phylogenetics will be discussed.
There will be lectures, films and discussion. Evaluation will be based on two one-hour exams and two brief papers.
Exclusion: LIN8B1
Prerequisite: LIN4A1
Session: Winter Day

LINC10F
LINC20F
LINC40G
LINB24Y Supervised Reading / Staff
Interested students should contact Professor J.D. Woods, Discipline Representative. The aim of this course is to allow the advanced student of Linguistics to engage in research; this research is normally at a level which is more advanced than other Linguistic courses which the student has already taken, and in an area which is of the student's own choosing. Methods of research and evaluation are as varied as the possible areas of research.
Prerequisite: At least one B-level full-course equivalent in Linguistics; permission of instructor.
Session: Winter Day

LDC211 Structure of a Language / J.D. Woods
This course uses a linguistic theory to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.
The aim of the course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year. Evaluation is based on class participation and the quality of each member's contribution to the grammar.
Exclusion: LINB10
Pre- or Corequisite: LINB20, LINB11
Session: Winter Day

COURSES NOT OFFERED in 1968-69

LINB285 Scripts
Prerequisite: LIN4A1 or LIN4A6
Session: Winter Day

LINB286 Languages of the World
Prerequisite: LIN4A1, LIN4A6, or one full-course equivalent in Psychology or Anthropology
MATHEMATICS

Staff member responsible for curriculum: M. Evans

The development of mathematics was induced by the inherent need to describe and analyze elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems which can be deduced from them. While pure mathematics is not necessarily initially motivated by practical considerations, there are numerous instances where this solution-based nature of science has been based upon previously developed pure mathematical theory. The wide applicability of both the techniques of the subject and the method of reasoning employed suggests that more students could profit by taking some courses in mathematics.

Mathematics and Statistics courses are divided into four sections:

(a) MATA22 is a prerequisite for some non-science programmes. Completion of this course does not qualify the student to proceed to further courses in Mathematics, Computer Science or Statistics.

(b) MATA23, B41-42
STAB21-25, C52F, C57S
These courses, primarily for science and social science students, emphasize practical rather than the rigorous development of theory.

(c) JIMP05 C21
A course in logic listed as a joint course in Mathematics and Philosophy.

(d) All other courses in Mathematics emphasize rigor. Many of these courses are required for programmes in Mathematics or Physics.

"A" Level - Calculus Courses

MATAS2Y Calculus: An Introduction to Analysis
MATAS2Y Calculus
MATAS2Y Statistics with Calculus

Comparisons:
MATAS2Y is a concise course aimed at students who wish to specialize in Mathematics or theoretical Physics. A student who completes MATA23 together with MATA40F and MATAS4S may take any of the second year Mathematics courses.

MATAS2Y is a practical course taught at a high level. There is emphasis on applications and no attempt is made to provide rigorous proofs. MATAS2Y is intended for students who wish to take some courses in mathematics or Statistics in their second year.

Students in MATA23 may also take MATAS2Y in their second year. The student will not be eligible to take some of the advanced Mathematics courses.

Students in MATA23 are eligible to take all of the Grade 13 mathematics courses possible.

Specialist Programme in Mathematics

Supervisor: J. Wilker

The Specialist Programme is designed to give students a thorough grounding in the main areas of Mathematics. It is aimed at those students who may wish to pursue a career in mathematical research, teaching or applications within government and industry.

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In this Programme, a total of eleven full-course equivalents are required. During their first year, students should complete MATAS4F, MATAS4S, MATAS5Y, CSCA26F and CSCA48S. In addition, students must complete MATAS5B, MATAS5S, MATAS4F, MATAS5F, MATAS5Y, MATAS5S, MATAS4F, MATAS5F and MATAS5S. Students must also take at least one full-course equivalent chosen from the following:

MATAS4S, MATAS4S, MATAS4F, JIMP05

Students are required to choose at least two additional courses in other disciplines where mathematics is applied, such as Astronomy, Biology, Chemistry, Computer Science, Economics and Physics. The selection of optional courses should be made in consultation with the Supervisor.

Major Programme in Mathematics

Supervisor: J. Wilker

The Major Programme is designed for students who wish to pursue a Bachelor of Science specializing in mathematics. Students must complete MATAS40F, MATAS40S, MATAS45, MATAS45Y, CSCA26F and CSCA48S. In addition, students must complete MATAS5B, MATAS5S, MATAS4F, MATAS5F, MATAS5Y, MATAS5S, MATAS4F, MATAS5F and MATAS5S. Students must also take at least one full-course equivalent chosen from the following:

MATAS4S, MATAS4S, MATAS4F, JIMP05

Students are required to choose at least two additional courses in other disciplines where mathematics is applied, such as Astronomy, Biology, Chemistry, Computer Science, Economics and Physics. The selection of optional courses should be made in consultation with the Supervisor.

In any given year, some C-level courses may not be offered. Students should check with the divisional office.

MATAS42Y Calculus with Statistics I: S. Holperin, P. Keat


Session: Winter Day

MATAS42Y Calculus I: T. Callahan, J. McCool, E. Medeiros

Limits and continuity, derivatives, applications in related rates, extreme problems, graph sketching. Rolle's Theorem, Mean Value Theorem. Indefinite and definite integrals, L'Hôpital's rule, Taylor approximation. Newton's method, numerical integration. Students must have a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses. MATAS42Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop those ideas by the investigation of specific examples. MATAS42Y is a demanding course which will equip the student for most sciences and for further work in mathematics.

Exclusion: MATAS2A, MATAS2Y

Session: Winter Day, Winter Evening, Summer Evening

MATAS48F Introduction to Linear Algebra I: T. Callahan, J. Wilker

Systems of linear equations and related matrix algebra. Vector spaces, subspaces, basis, dimension. Linear transformations: range and kernel, matrix representation. Geometry of R² and R³. MATAS48F is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on the proofs of theorems as well as their applications. The course structure is lectures and tutorials. Exclusion: Grade 13 Functions and Relations or Grade 13 Algebra or Grade 13 Calculus.

Session: Winter Day

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MATH485 Linear Algebra III J. J. McCool
Linear product spaces, bilinear forms, Sylvester's Law. Topics chosen from orthogonal and symmetric geometry, Witt's Theorem, convex sets, localization of eigenvalues, game theory, integer and 0,1 matrices, matrix inequalities, tensor products, and exterior algebra.
The course structure is three lectures per week.
Prerequisite: MATH480
Session: Winter Day

MATH86 Analysis J. R. Sharp
The course structure is three lectures per week.
Exclusion: MATH141, MATH482
Prerequisites: MATH445, MATH565
Session: Winter Day

JMP580 Symbolic Logic J. A. Gombay
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.
An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, generalization theory, or predicate logic and elements of probability theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed. But the emphasis is on techniques.
D. Keil and R. Montague, Logic: Techniques of Formal Reasoning (for deductive techniques only).
Session: Winter Day

MATH585 Analysis II J. R. Sharp
The topology of n-dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of forms. Exterior calculus. Linear integrals, winding number, Green's theorem. Surface integrals and Stokes' theorems. (Mathematical rigor is emphasized.)
The course structure is three lectures per week.
Exclusion: MATH484, MATH482
Prerequisite: MATH580
Session: Winter Day

MATH593 Introduction to Number Theory J. Culliford
MATH590 will be an exploration course. The material to be studied will be chosen on its own merits, but not for its future usefulness. Number theory is one of the oldest and most beautiful branches of pure mathematics and this course should provide an idea of why it has fascinat ed mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential. The course structure is three lectures per week.
Prerequisite: MATH455
Session: Winter Day

MATH594 Advanced Classical Mechanics
Exclusions: PHYS484, MATH484, PHYS424, MATH424
Prerequisites: PHYS40 or PHYS410 or PHYS401, MATH40
Session: Winter Day

MATH454 Algebraic Structures I P. W. Eilers
An introduction to group theory and algebra. Groups, their homorphisms and structure. Representation of groups by permutation groups, homorphisms theorems and some of their implications. Sylow theorems. A similar study of rings and fields.
The course structure is three lectures per week.
Prerequisite: MATH455 and one of the following: MATH405 or MATH415
Session: Winter Day
MATC49S  
Algebraic Structures II / E.W. Ellers
The course structure is three lectures per week.
Prerequisite: MATC34
Session: Winter Day

MATC51F  
Differential Equations I / J. Kapka
Prerequisites: MATB40/5MATB50 (or MATB50 may be taken concurrently with MATC53)
Session: Winter Day

JMCC55S  
Numerical Methods
This course is an introduction to the numerical solution of several types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their computation, for each class of problem. All the algorithms that will be used are available in a software library, so that programming will be restricted to the writing of short driving and linking programmes.
Eight or nine assignments will be given, and a short mid-term examination will be set. There will be a final examination.
The language of the packaged programmes is FORTRAN, for which a brief review will be given.
Exclusion: MATB53
Prerequisites: MATA40, MATB42 or MATB55, CSCA48
Session: Winter Day

JMPC55S  
Symbolic Logic II / J.H. Sobel
A continuation of JMPC54SF.
In the first and longest part of the course the natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity concept to 'extensional' terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The emphasis in this first part of the course is on techniques.
The second part of the course covers the meta-theory of standard elementary logic with emphasis on completeness proofs for sentential and predicate logic and on the 'inclusion theorem' due to Skolem, Godel and Church. The object in this part of the course is theoretical, not practical. There will be three sets of lecture notes and a final examination.
The test set is D. Kalish and R. Montague, Logic: Techniques of Formal Reasoning; Geoffrey Hunter, Metamathematics: An Introduction to the Metamathematics of Standard First-Order Logic.
Prerequisite: JMPC54SF or PHILB50 or MATA80
Session: Winter Day

MATC59Y  
Real Analysis
Exclusions: MAJC50, MATC55
Prerequisites: MATB40, MATB55
Session: Winter Day

MATC549  
Differential Geometry I / J. Kapka
Prerequisites: MATA45 and MATB42 or MATB55
Corequisite: MATC51
Session: Winter Day

MATC548  
Differential Equations II / J. Kapka
Prerequisites: MATB55 or MATC51F
Session: Winter Day

MATC60F  
Complex Analysis I / P. Leah
The course structure is three lectures per week.
Prerequisites: MATB55 or MATB428
Session: Winter Day

MATC61S  
Complex Analysis II / P. Leah
Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.
The course structure is three lectures per week.
Prerequisite: MATC60
Session: Winter Day

STARSF  
Probability and Statistics I / M. Evans
The course structure is lectures and tutorials.
Exclusions: PSTB57, EC3B1I
Prerequisite: STARS DAMT52
Session: Winter Day

STASC8S  
Probability and Statistics II / M. Evans
The course structure is lectures and tutorials.
Exclusions: PSTB57.
Prerequisite: STARS DAMT52
Session: Winter Day

STAC52F  
Experimental Design / M. Evans
The statistical aspects of designing and collecting experimental data. Complete randomization and restricted randomization schemes. Factorial designs. The course structure is three lectures per week.
Exclusion: PSTB58
Prerequisite: STARS DAMT57
Session: Winter Day
MEDIEVAL CIVILIZATION

The courses in these Programmes encompass the breadth of European and Mediterranean culture running from the late Roman period and culminating, in the West, in the Renaissance of the fifteenth century.

Specialist Programmes in Medieval Civilization

Supervisor: M. Gervers

Students will be expected to complete ten full-course equivalents from the following areas:

   (1) The Arts (Fine Art, Archaeology, Drama and Music)
   (2) History
   (3) Language and Literature
   (4) Philosophy and Religion

Students are to select three full-course equivalents each from three of the four areas, and one from the remaining area. HIS89/90 is required of all participants. Two of the ten full-course equivalents must be C-level seminars or C-level reading courses requiring major research papers. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

Arts

ANTE827* Archaeological Methods and Materials
DRAB101Y The History of Theatre I
DRAB102B Medieval and Early Tudor Drama: The Texts and their Production
FARA111 Medieval Art
FARC101S Romanesque Art
FARB101F Carthusian and Romanesque Art
FARB101F The Arts in Northern Europe ca. 1400-1500
FARB225S High Gothic Architecture
MUS804F/5 Music of the Renaissance
ANTE815* Pre-Industrial Technology
GERE835* History of German
GRIB801Y Roman History from the Gracchi to Nero

Language and Literature

EN810Y Old English Language and Literature
EN810Y Chaucer
EN8121* English Drama to 1662
EN810Y* Advanced Studies in Beowulf and other Old English Poetry
EN810Y* Studies in Middle English Language and Literature
FR8121* General History of the French Language
FREC221Y Introduction to Medieval French Language and Literature
GER8135* History of German
GER8135* German Literature before 1775
GER8135* Introduction to Middle High German
HUMB210Y Lyric Poetry of the Middle Ages in the Mediterranean Area
ITAB210Y Dante and Medieval Culture
ITAB210Y Petrarach and Boccaccio
LATAN1Y Introductory Latin
LAT810Y
LATL835*
LATL835*
LAT810Y
LAT810Y
LAT810Y

Supervised Reading

SPA8125* History of the Spanish Language
SPA810Y* Medieval Literature: Prose
SPA810Y* Medieval Poetry

Philosophy and Religion

CLAR811Y Greek and Roman Religion
CLAR821F Christianity in the Greco-Roman World
HUMB202Y Primitive Christian Literature and Myth
HUMB202Y World Views from the Late Middle Ages to the Renaissance
HUMB202Y Jesus in Early Christianity and Judaism
HUMB215* John: Gospel and Letters
PHIL640F Plato and His Predecessors I
PHIL640F Plato and His Predecessors II
PHIL640F Aristotle and Later Greek Philosophy I
PHIL640F Aristotle and Later Greek Philosophy II
PHIL640F Philosophers of the Middle Ages I
PHIL640F Philosophers of the Middle Ages II
PHIL640F Philosophy of Religion
PHIL810Y Seminar in Philosophy: St. Augustine's Philosophic Dialogues

* Students should check these courses for prerequisites.

Major Programme in Medieval Civilization

Supervisor: M. Gervers

Students will be expected to complete seven full-course equivalents from the following four areas:

   (1) The Arts (Fine Art, Archaeology, Drama and Music)
   (2) History
   (3) Language and Literature
   (4) Philosophy and Religion

Students are to select two full-course equivalents each from three of the four areas, and one from the remaining area. HIS89/90 is required of all participants. One of the seven full-course equivalents must be a C-level seminar or C-level reading course requiring a major research paper. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.
MODERN LANGUAGES
Specialist Programme
Supervisor: G. Trembley

The Modern Languages Specialist Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the programme consisting of LINAS1Y, General Linguistics, and a choice from a set of courses which cover languages to broader social and historical or cultural areas. There are ten possible combinations as follows: French and German, French and Italian, French and Spanish, German and Italian, German and Spanish, Italian and Spanish, French and Linguistics, German and Linguistics, Italian and Linguistics, Spanish and Linguistics.

For every combination, students must satisfy the following requirements:
(1) The courses listed under the Major Programmes in two of: French, German, Italian, Linguistics, Spanish.
(2) One full-course equivalent from the following:
   ANT310Y Introduction to Anthropology
   ANT329Y Language and Culture
   HIS295Y European World
   HIS449Y Prologue

N.B. (Although there is no Russian Language Major Programme, students may combine the Russian Language and Literature Major or the Russian and Related Studies College Programme with any of the above mentioned Language Programmes).

MUSIC
Discipline Representative: T.J. McGee

Music is one of the liberal arts. The courses at Scarbororough emphasise a humanistic approach to the subject and stress the relationship of Music to other subjects such as Fine Arts, Drama, History, Languages and Literature and Philosophy. Individual musical works are studied from two broad points of view, the critical and the historical. The first approach examines the single composition and attempts to understand, explain and illustrate our experience of it; the second approach sees the particular work as an example of larger stylistic tendencies and tries to explain these in a historical context. Both approaches rely on the sensitivity of the listener and his ability to communicate. Much of the course work, therefore, is directed towards improving the student’s musical awareness and his ability to think and write clearly about all types of music.

All students are encouraged to take advantage of the various opportunities which exist in the College for practical music making.

Major Programme in Music
Supervisor: T.J. McGee

Students are required to complete a total of six full-course equivalents in Music and related areas. The six courses will be made up as follows:
(1) MUS401Y Introduction to Music
MUS410FS Materials of Music I
(2) Two full-course equivalents from:
MUS364FS Music of the Renaissance
MUS365FS Music of the Baroque Era
MUS465FS Classical Music
MUS466FS Music of the Romantic Period
MUS101FS Music of the Twentieth Century (also available at St. George campus as MUS201H, when not offered at the College)
(3) One and one half full-course equivalents chosen from MUS courses

To satisfy the requirements of this section, students may substitute, in consultation with the Supervisor one or more of the MUS courses offered at the St. George campus (but see above p. 24 i.e. information on limitation of courses).

(4) One additional full-course equivalent in Music or another relevant discipline. The following MUS courses are recommended: PHIL500P Philosophy and Art. FARR13 Early Renaissance in Florence, HUM280S Machiavelli and Aspects of the Italian Renaissance. GERR252 German Civilization and Culture. DRAM40Y The History of Theatre I.

MUS401Y Introduction to Music / T.J. McGee
A study of the basic materials, principles of design, and cultural significance of representative works of Western and non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

A survey of the style changes in Western music from the Middle Ages to the present. The music is approached as art, as a mechanical construction, an aesthetic exercise, and in relation to social and political trends and society. The evolutionary aspects of the various period styles are emphasized as well as the individual characteristics of styles and periods. There will be three lecture hours per week. Evaluation will be on the basis of tests and term assignments (25%) and a final examination (75%).
Session: Winter Day

MUS801S Music of the Twentieth Century / T.J. McGee
Tracing the various trends of music in the present century from Debussy to the most recent electronic and multi-media presentations. Concentration will be on particularly influential composers. The influence of jazz will also be considered.
Selected compositions of Debussy, Schoenberg and Stravinsky are analysed in detail to demonstrate the nature of the evolution which took place in music during the early years of the century. The course continues with a survey of the most significant composers and techniques of the succeeding seventy years. Topics to be discussed include the continuing commitment of some composers to totality; developments in twelve-tone serialism; the influence of jazz; electronic music; the emergence of new aesthetic attitudes. There will be two lecture hours per week. Evaluation is based on an exam (35), the lowest of two quizzes (15), listening or other short assignments (15), and a term paper (10).
Prerequisite: MUS401
Session: Winter Day

MUS802F Music of the Classic Period / T.J. McGee
A study of music from the late eighteenth and early nineteenth centuries with emphasis on the works of Haydn, Mozart and Beethoven.
An examination of the origins of the Viennese classical style will be followed by a study of representative works by the three major composers of the classic period. The works will be studied in the context of the political, social and artistic changes which took place in Europe at this time. There will be two lecture hours per week. Evaluation will be on the basis of an exam (35), three or class presentations (35) and a term paper (31).
Prerequisite: MUS401
Session: Winter Day

MUS809H Supervised Performance I / C. Walter, J. Mayo
The study and performance of either vocal or instrumental music, supervised by a member of the faculty.

The practical study of a wide variety of music literature leading to public performance within the College. Instrumental students will work in small ensembles arranged to suit the abilities of individual performers. Vocal students work in the Scarbororough College Chorus or in small vocal ensembles. Previous experience is necessary for admission to this study, but not for vocal students. There will be two hours of group instruction per week. The formation of groups and the arrangement of times will take place during the first weeks of the fall term. (Please consult with music staff at 5296). Evaluation is based on class participation and at least two recorded or public performances. The grade assigned will be Honours/Pass/Fail.
Prerequisite: MUS401
Session: Winter Day

MUS810H Supervised Performance II / C. Walter, J. Mayo
A continuation of MUS809H.
For further information see MUS809. The grade assigned will be Honours/Pass/Fail.
Prerequisite: MUS809
Session: Winter Day

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MUSB11F  Music for the Theatre / J. Mass
Music for the Theatre from the Renaissance to the present day.
A study of the great variety of ways in which music and drama have been combined. Subjects for discussion will include incidental music for spoken drama, music for the dance and the development of the symphonic ballet; opera and its particular dramatic problems and possibilities; music and film; modern multi-media experiments. There will be two hours per week of lecture and classroom discussion. Evaluation will be based on an exam (1/3), class presentation or other assignment (1/3), and a term paper (1/3).
Prerequisite: MUSA01 or permission of instructor
Session: Winter Day

MUSB17H  Materials of Music I / J. Mass
The basic materials of music from the seventeenth to the nineteenth century.
A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject will be emphasized providing a secure foundation for the development of the student's "inner ear" — that is, the ability to hear mentally what is written and to write down what the inner ear perceives. Two hours of lecture/practical sessions per week. Evaluation will be based on a final exam (1/3) and regular written and aural assignments (2/3).
Prerequisite: MUSA01
Session: Winter Day

COURSES NOT OFFERED in 1980-81
MUSB00F  Music of the Baroque Era
MUSB00G  Music of the Romantic Period
MUSB07F  The Symphony
MUSB08F  Music of the Baroque Era
MUSB09F  Music of the Classical Period
MUSB12S  Svara
MUSB13S  Bach
MUSB14S  Monteverdi
MUSB15S  Bach
MUSB16S  Music in Canada

MYTH AND RELIGION

Supervisor: M.E. Erwin
This Programme combines an examination of man's perception and experience of his religious and mythic heritage and traditions from the anthropological, historical, philosophical, sociological and literary points of view.

College Programme in Myth and Religion

Supervisor: M.E. Erwin
Nine full-course equivalents to be completed as follows:
(1) HUMA01Y Prologue
(2) HUMA02Y Introduction to the Study of Religion or HUMA11Y Greek and Roman Mythology
(3) PHIL01Y Fundamental Questions of Philosophy or ANT01Y Introduction to Anthropology or SOC101Y Introduction to Sociology or HIS01Y The European World: An Introduction to History
(4) ANTB23Y Comparative Mythology or HUM112Y Major Religious Traditions, East and West or HUM122Y Primitive Christian Literature & Myth
(5) HUMC108# Humanities Seminar
(6) and three and one-half further full-course equivalents drawn from (2), (4) and (5) above and from the following:
ANTB05F# Anthropological Study of Religion
ANTC02F# Systems of Thought
CLAE02Y Greek and Roman Tragedy
CLAE11Y Greek and Roman Religion
CLAE21F# Christianity in the Greek-Roman World
HUSB06Y Europe in the Middle Ages
HUSB11Y* Europe in the Reformation Era
HUSB44F# Canadian Religious Traditions
HUSB61Y* The Beginnings of France
HESC11Y* The European Mentality
HSC441F# Selected Topics in Canadian Religious History
HSC61Y* The Crusades
HUMB10F# The Ulysses Factor
PHLB41Y* Philosophers of the Middle Ages I
PHLB43Y* Philosophers of the Middle Ages II
PHLB61F# Philosophy of Religion
SOCI01Y* History of Social Thought
SOCI21F# Sociology of Religion

* Students should check these courses for prerequisites.

NATURAL SCIENCE

Sciences for the citizen.
What is a quasar? How many defective genes am I carrying? How many dollars should Canada spend in support of nuclear fusion research? What is a laser? Why didn't the Green Revolution work? Such questions about the late twentieth century view of the universe in which we live, about the complex technology which affects our present lives and changes public issues are difficult to answer without some knowledge of the methods and concepts of the natural sciences. The courses listed below may help those students whose primary interests are in the humanities or social sciences and who may lack high-school science or mathematics to come into touch with contemporary science.

NSCA01Y Introduction to Natural Science: The Physical Sciences / H. Corben, T. Callahan
This course provides an introduction to the physical sciences for those who are not primarily science students. Several different areas will be examined from an historical viewpoint. Above all else this course will emphasize the nature of science, the distinctive method of analysis and attitude to conjecture which characterizes science.
Exclusion: PHYA01Y/PHYA02Y or PHYA03Y
Session: Winter Day

Students should also refer to the following courses:
ASTA01Y A Survey of Astronomy, its Recent Development and Significance
GILA02S Geology and Land Use Planning
HUMC11Y The Dacianian Revolution
MATX215 Thinking Mathematically (not offered 1980-81)
PHIL070Y Philosophy of Science
PHIL085 Contemporary Philosophical Issues: Biomedical Ethics
SOCI11Y Sociology of Science

COURSES NOT OFFERED in 1980-81
NSCA01Y Introduction to Natural Science: The Biological Sciences
Exclusion: Not open to students who are taking or have taken BIA01Y
For (NSCA01Y) QA0A05Y and (NSCA01Y) QA0A02Y see Quaternary Studies

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PHILOSOPHY

Discipline Representative: A. Gambay

Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two-year cycle: those not offered in one academic year will normally be available in the following year while PHI. 801, PHI. 802, PHI. 803, PHI. 804 and PHI. 805 are offered every year. It should be noted that in almost all subject areas Fall/Spring sequences are offered when combined provide the equivalent of a full course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative.

Specialist Programme in Philosophy

Supervisor: A. Gambay

Students must complete at least eleven and a half full-course equivalents including:

(1) PHI.801Y Fundamental Questions of Philosophy
(2) PHI.802Y Morality and Values
(3) PHI.803Y Ethical Knowledge and Truth
(4) PHI.804Y Symbolic Logic
(5) PHI.805Y Existence and Reality
(6) Two full-course equivalents in B-level Philosophy courses
(7) Six additional full-course equivalents in Philosophy

Two full-course equivalents from courses in other disciplines agreed upon in consultation with the Supervisor.

Cognitive Courses

Philosophy students should seriously consider the advantages of studying a foreign language, especially French, German, Greek or Latin. Two full-course equivalents in a foreign language will give students access to much philosophical thought in its original language and to many secondary sources not available in English.

There is a variety of courses in Classics, English, Fine Art, History and Humanities which will help supplement the Programmes of many students. In particular, students should consider the following courses: HUMA80Y, Proseque; HUMA101Y, European World; HUMA104Y, Survey of Astronomy; HUMA105Y, Introduction to Physics; HUMA107Y, Introduction to Biological Sciences; courses which provide important intellectual and historical background for the study of Philosophy.

Major Programme in Philosophy

Supervisor: A. Gambay

Students must complete at least six full-course equivalents in Philosophy including:

(1) PHI.801Y Fundamental Questions of Philosophy
(2) Two of the following half courses:
   PHI.802Y Morality and Values
   PHI.803Y Ethical Knowledge and Truth
   PHI.804Y Symbolic Logic
   PHI.805Y Existence and Reality
(3) Three half courses from PHI.804F to PHI.849Y
(4) Two half courses in C-level Philosophy courses
(5) Two additional half courses in Philosophy

In certain cases students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing one of these modifications must have the approval of the Supervisor.

The Major Programme may be modified as follows:

(a) Students in Social Sciences (ANT, COM, ECO, GGR, GEO, POL, SOC) should complete (1), (2), and (3) as above; three half courses from PHI.801F, PHI.802F, PHI.803F, PHI.804F, PHI.805F, PHI.806F, PHI.810F, PHI.817F, one half course in C-level PHI courses, and two additional half courses in Philosophy.

(b) Students in the Arts (ART, F.A.R., MUS) should complete (1), (2), (3) and (4) as above; PHI.803F, and three additional half courses in Philosophy. (At least one of the C-level courses should be an independent study course related to the student's area of concentration in the Arts.)

(c) Students in Psychology should complete (3) and (4) as above; three half courses from (2), PHI.802F, PHI.803F, PHI.804F, PHI.810F, and two additional courses in Philosophy. (At least one C-level course should be related to Problems Psychology).

(d) Students in Sciences (AST, BIO, CHM, CSE, GGL, MAT, NFM) should complete (3) and (4) above; three half courses from (2), PHI.805F, PHI.817F or PHI.817F, PHI.817Y, and two additional half courses in Philosophy.

PHIL.801Y: 1.0 F. Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justified? Is materialism true? Are humans free?

In 1980-81 the following topics will be discussed: the basis of morality, the relationship of thought to reality, the nature of space and time, causality, determinism, and the existence of God. Texts: Plato, Republic; H. J. L., The Philosophy of Religion; B. F., Free Will and Determinism. Three hours of lectures per week.

Session: Winter Day

PHIL.802Y: 1.0 F. Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justified? Is materialism true? Are humans free?

This course will approach some of the above problems by concentrating on the question: what does it mean to be a human being or person? Although the question is theoretical, the answer to it has important practical ethical consequences. We shall examine this question with the help of both philosophers within the Western tradition (e.g. Aristotle, Thomas Aquinas, Descartes, Hume, J. S. and H.) and of psychologists (e.g. Freud, Skinner, Fratt). Enrollment will be limited to 30 students, at least 10 in-class tests, and one paper. The texts will be Marti, The Conduct of Science; Mortimer Adler, The Difference of Man and the Difference Makes; Jerome Shafar, The Philosophy of Mind.

Session: Winter Day

PHIL.803Y: 1.0 F. Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justified? Is materialism true? Are humans free?

This course will approach some of the above problems by concentrating on the question: what does it mean to be a human being or person? Although the question is theoretical, the answer to it has important practical ethical consequences. We shall examine this question with the help of both philosophers within the Western tradition (e.g. Aristotle, Thomas Aquinas, Descartes, Hume, J. S. and H.) and of psychologists (e.g. Freud, Skinner, Fratt). Enrollment will be limited to 30 students, at least 10 in-class tests, and one paper. The texts will be Marti, The Conduct of Science; Mortimer Adler, The Difference of Man and the Difference Makes; Jerome Shafar, The Philosophy of Mind.

Session: Winter Day

PHIL.804Y: 1.0 F. Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justified? Is materialism true? Are humans free?

This course will approach some of the above problems by concentrating on the question: what does it mean to be a human being or person? Although the question is theoretical, the answer to it has important practical ethical consequences. We shall examine this question with the help of both philosophers within the Western tradition (e.g. Aristotle, Thomas Aquinas, Descartes, Hume, J. S. and H.) and of psychologists (e.g. Freud, Skinner, Fratt). Enrollment will be limited to 30 students, at least 10 in-class tests, and one paper. The texts will be Marti, The Conduct of Science; Mortimer Adler, The Difference of Man and the Difference Makes; Jerome Shafar, The Philosophy of Mind.

Session: Winter Day

PHIL.805Y: 1.0 F. Morality and Values

A study of philosophical problems and postures in ethics, such as the relativity of values, the justification of morality, aesthetic scepticism, ethical egoism, utilitarianism, deontology. Further information will be available later in Winter Semester.

Session: Winter Day
PHIL809F Social Issues / R.P. Thompson
An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, abortion etc.), euthanasia, ecology, civil disobedience, policies towards the Third World, and towards the poor.
In 1980 the course will examine the moral issues involved in the consideration of: human sexual relations, abortion, world hunger, discrimination, and capital punishment. Evaluation will be based on an essay and an examination.
Session: Winter Day

PHIL811F Philosophy of Law / A. Gombrich
What is the relation between law and morality and between law and custom? What is justice? How are concepts such as responsibility, intention and negligence treated in the law? What is legal reasoning like? The course has two parts. The first examines the notion of legal responsibility and attendant concepts (intention, foresight, negligence, recklessness, insanity). How are these treated in law? The second part examines the notion of legality, what is required for the existence of a legal system.
Session: Feinberg and Gross, Philosophy of Law. Session: Winter Day

PHIL820F Belief, Knowledge and Truth / J. Hartley
An examination of such questions as: certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, relativism, and theories of truth. Epistemology as a distinctive branch of philosophy emerged at the beginning of Modern Philosophy and represents, at least in its beginnings, philosophy's critical self-criticism. Philosophers were puzzled by the conflicting and sometimes contradictory knowledge-claims made by different philosophers and began to wonder whether and how these claims could be justified. So Epistemology asks about the existence, nature, extent and limits of knowledge. It seeks to discover the bounds of sense, of meaningful discourse, of truth. For example, can we know and speak meaningfully about the world in its totality (is it finite or infinite in extent or duration?), freedom of the will, the immortality of the soul, the existence and nature of God?
The course is taught largely through lectures. Evaluation is based on a final exam and one major essay or two short essays.
Session: Winter Day

PHIL830G Existentialism / J. Hartley
A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre. The course has four main objectives: (1) to familiarize students with the work of some of the leading 'existentialist' thinkers, including Kierkegaard, Nietzsche, Heidegger, Sartre and Marcel; (2) to integrate existentialist thought by focusing upon the development of some common themes; (3) to understand the role of freedom in the thought of these writers; (4) to examine the nature of the human condition and human experience and the sense of existence and values among the readings are: Nietzsche, The Gay Science; Sartre, Existentialism is a Humanism; Heidegger, Being and Time (selections). The course is taught through lectures and seminars. Evaluation is based on essays (one major or two short), two short reports on required readings, and a final exam.
Session: Winter Day

PHIL840F Plato and his Predecessors I / P.W. Gooch
A study of the origins of philosophy in Greece and the views of the earliest philosophers regarding the nature of the world. A study of Plato and his philosophy. An introduction to the nature of the philosophy of Plato. The course will examine central themes in Plato's presentation of Socrates. The Socratic method, the pursuit of true virtue and knowledge; civil disobedience, the possibility of teaching goodness, the possibility of surviving death. For Socrates, philosophy is not a set of doctrines so much as a way of life: 'the perfected man is not worth living'. The dialogues to be read include the Apology, Crito, Euthyphro, Protagoras, Meno, Gorgias, Phaedo. A convenient edition is Plato: Collected Dialogues (Princeton). Evaluation is based on a brief analytic essay, an essay, and an examination.
Session: Winter Day

PHIL841S Plato and his Predecessors II / P.W. Gooch
A continuation of PHIL840.
The course will work through major themes in Plato's Republic and develop those themes through other works of Plato. For instance: Plato's theory of knowledge in the Theaetetus, his understanding of the relation between knowledge and love in the Symposium and Phaedrus; and issues in Plato's psychology and ethics in some passages selected from dialogues. The text will be Plato: Collected Dialogues (Pantheon). Evaluation is based on a seminar presentation, an essay, and an examination. Prerequisite: PHIL840
Session: Winter Day

PHIL840F Philosophy in the Later Modern Age I / A. Gombrich
A study of the doctrines of some contemporary philosophers in the analytic tradition: Wittgenstein, Popper, Quine, Davidson. The doctrines are about mind, language and reality. Readings: Wittgenstein, Tractatus Logico-Philosophicus; Moore, Philosophical Papers. Session: Winter Day

PHIL841S Philosophy in the Later Modern Age II / A. Gombrich
A study of the doctrines of some contemporary philosophers in the analytic tradition: Wittgenstein, Popper, Quine, Davidson. These doctrines are about mind, language and reality. Readings: Wittgenstein, Philosophical Investigations; Popper, Objective Knowledge; Quine, From a Logical Point of View. Session: Winter Day

JMP806F Symbolic Logic / A. Gombrich
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.
An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, quantification theory, or predicate logic and element of probability theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proof. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed. The emphasis is on techniques. D. Kalish and R. Montague, Logic: Techniques of Formal Reasoning (for deductive techniques only). Session: Winter Day

PHIL860S Existence and Reality / J. Hartley, R.P. Thompson
In perceiving, categorizing and classifying reality, certain very basic concepts are employed. The course will consider problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, identity, causality, mind and value. Concepts of things and relations, the multiplicity of traditional rephrasing has been, if not dethroned, at least under heavy attack since the time of David Hume and Immanuel Kant. In this course we shall examine some of the philosophical criticisms of metaphysics, and study the texts of some metaphysicians - e.g. the Metaphysics of Aristotle, On Being and Essence of Thomas Aquinas, Meditations of Descartes. For summer sessions the topic will be discussed in space and time. Session: Winter Day, Summer Evening

PHIL861S Philosophy of Religion
A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism. Further information will be available later in Room B252A.
Session: Winter Evening

PHIL870F Philosophy of Science / R.P. Thompson
A study of philosophical questions raised by the Natural Sciences.
The course examines the logical structure of explanation, law and theory in the Natural Sciences, and the role of concepts in one's understanding of the world. There will be a short mid-semester paper, an essay and an exam.
Evaluation: Essay, Exam
Prerequisite: One course or half-course in Philosophy or in the Division of Science.
Session: Winter Day
PHIL717 | Philosophy of Biology / J.R. Thomson
An examination of the conceptual and logical aspects of explanation, theory, and model construction in biology.
Exclusion: PHIL70
Prerequisite: BG340
Session: Winter Day

PHIL811 | Theories of Mind / J.H. Harris
An examination of the philosophical presuppositions of psychological theories such as those of Freud and Jung. Behavioral and experimental psychology. Problems such as the relation of mind and body, conscious and unconscious, the meaning of introspective concepts and the analysis of dreaming will be studied.
The meaning of the word mind underwent an evolution as it spread its way from medieval philosophy through Descartes, the British Empiricists and beyond. Hence we shall say something about the interesting philosophical developments in the concept of mind that took place from one school of psychology to the next, and from introspectionism to the Physiological Psychology of Pavlov to Behaviorism to Gestalt Theory. The text used will be John Searle, The Philosophy of Mind. A lecture format is used. Evaluation is based on major essay or two short essays and a final exam.
Prerequisite: One B-level course or half-course in Philosophy or Psychology
Session: Winter Day, Summer Evening

PHIL815 | Topics in the Philosophy of Law / J.A. Gomberg
A discussion of right and wrong, justice, legality, and related concepts.
The course will examine and seek to adjudicate between competing theories of what a right is, competing theories of the relation between rights and legal systems, and competing theories about the nature of legal systems. We shall also discuss some controversial rights, e.g., "reverse discrimination", "privacy", "reading", R. Dworkin, Taking Rights Seriously. Three hours of lectures per week. Evaluation is based on two essays and one examination, each worth 1/3 of the final grade.
Prerequisite: PHIL811
Session: Winter Day

JMP815 | Symbolic Logic II / J.H. Sobel
A continuation of JMP805.
In the first part of the course the natural deduction system developed in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the language to "extensive" terms and formulas. Alternative treatments of definite descriptors in one that follows Frege, the other that follows Russell, are developed and compared. The emphasis in this first part of the course is on techniques.
The second part of the course covers the meta-theory of standard elementary logic, with emphasis on complete proofs for sentential and predicate logic, and on the "skolemization theorem" due to Skolem, Gödel and Church. The object in this part of the course is theoretical, not practical.
There will be three tests during the term and a final examination. The texts are D. Kalish and R. Montague, Logic: Techniques of Formal Reasoning; Geoffrey Hunter, Metalogic: An Introduction to the Metamathematics of Standard First-Order Logic.
Prerequisite: JMP805 or PHIL810 or MAT810
Session: Winter Day

PHIL820 | Modal Logic and Probability / J.H. Sobel
An introduction to theories of possibility and necessity, subjective conditionals, and probability.
The logic of possibility and necessity will be studied: both axiomatic and natural deduction treatments will be presented. A theory of probability as a measure of a person's confidence in propositions will be taken up. The logic of subjective conditionals will be contrasted with that of material conditional or "humean" conditionals. These attempts to relate a person's probabilities and his views regarding subjective conditionals to what would be his rational decisions will also be examined. All theories studied will be interpreted in terms of a field of possible worlds, which, will be the underlying principle of the course. Evaluation is based mainly on tests, problem-solving, and an examination.
Prerequisite: JMP805
Session: Winter Day

PHIL715 | Advanced Topics in Philosophy of Biology / R.P. Thompson
A seminar course dealing with conceptual and logical aspects of explanation and theory in Biology, and logical and heuristic aspects of models in Biology.
In 1980-81 the following topics will be covered: the logical structure of the theory of evolution, the conceptual assumptions underlying the theory of evolution, the logic of evolutionary and functional explanation, and the logical and heuristic aspects of the general model or non-parametric stratification in circularity research. Seminar two hours per week. Evaluation is based on a seminar presentation and an essay.
Exclusion: PHIL7G7
Prerequisite: PHIL870 or PHIL871; permission of instructor
Session: Winter Day

PHIL805 | Philosophy of Science / Staff
Prerequisites: Two B-level half-courses in Philosophy; permission of instructor
PHILOPHIC CoursE NOT OFFERED IN 1980-81

PHIL835 | Philosophy and Art
Exclusion: PHIL8B6, PHIL8B0

PHIL845 | Philosophy in Literature
Exclusion: PHIL8B6, PHIL8B0

PHIL855 | Society, the State and the Citizen
Prerequisites: One course or half-course in Philosophy; Sociology, Political Science, or Economics. PHIL850 is recommended but not required.

PHIL885 | Philosophy of Social Science
Prerequisite: One course in Philosophy or in the Division of Social Sciences.

PHIL895 | Philosophy of Education

PHIL865 | Philosophy of History

PHIL879 | American

PHIL893 | Aristotelian

PHIL894 | Aristotelian II

PHIL894 | Philosophers of the Middle Ages I

PHIL896 | Philosophers of the Middle Ages II

PHIL895 | Philosophy of the Early Modern Age I

PHIL897 | Philosophy of the Early Modern Age II

PHIL890 | Philosophy of Language
Prerequisite: One B-level course or half-course in Philosophy or Linguistics.

PHIL895 | Contemporary Philosophical Issues
Prerequisite: One full-course equivalent in Philosophy

PHIL895 | Contemporary Philosophical Issues
Prerequisite: Contemporary Philosophical Issues

PHIL895 | Contemporary Philosophical Issues
Prerequisite: One full-course equivalent in Philosophy including PHIL890

PHIL895 | Contemporary Ethical Theories
Exclusion: PHIL882
Prerequisite: One full-course equivalent in Philosophy including PHIL890

PHIL895 | Seminar in Philosophy
Prerequisite: PHIL870 or PHIL871; permission of instructor

PHIL895 | Seminar in Philosophy
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

PHIL895 | Seminar in Philosophy
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

PHIL895 | Seminar in Philosophy
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor
PHYSICS

Discipline Representative: M.B. Walker

Physics is the study of inanimate matter in action, and of the basic laws which describe how the parts of matter move, and how they influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring ion, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electromagnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions between the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of X-rays, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of which the student may be the agent. It is possible to develop, in mathematical language, theories that run so closely parallel to the development of physical phenomena that they may be used to accurately describe and even predict the results of many carefully controlled experiments. The study of physics therefore requires some studies both of mathematics and of the techniques that are needed in the performance of accurate experiments.

Students intending to study physics in depth should select their courses in accordance with the requirements of either the Specialist or Major Programme in Physics. Students whose interests lie in the life sciences may choose the pair of courses PHYA01 and PHYB13 which offer a survey of physics with many applications from the life sciences and medical physics. PHYB01 along with the laboratory course PHYB02 offers an introduction to electronics and is also available to students outside the Physics Programme.

The listed pre- and corequisites imply others not explicitly listed. Details are available from the Supervisor and the Registrar's Office.

Students interested in physics should also refer to:

NSCA01Y Introduction to Natural Science: Physical Science
JPAC02Y Relativity and Cosmology
JPAC02Y Advanced Classical Mechanics.

Specialist Programme in Physics

Supervisor: A.E. Jacobs

Students must complete thirteen full-course equivalents in Physics and Mathematics, as specified below. As optional Mathematics sequence more suitable for students with interest in mathematics and physics or theoretical physics is specified in parentheses. It is essential that students choose the mathematics of Mathematics courses from the beginning, since they are assumed to be completed.

(1) In the first year of full-time study (or equivalent):

PHYA02Y Principles of Physics (or PHYA01 Physics for Life Sciences I)
MATA52Y Calculus (or MATASSY Calculus)

(2) In the second year of full-time study (or equivalent):

PHYB01S Electricity and Magnetism I
PHYB02F Introductory Electricity
PHYB02C Waves and Optics
PHYB00E Intermediate Laboratory
PHYB00S Thermodynamics
PHYB01S Quantum Physics I
MATAB41F Calculus of Several Variables I
MATAB42S Calculus of Several Variables II
(or MATABF Analyis 1, MATABSS Analysis II)

(3) In the third year of full-time study (or equivalent):

PHYC01Y Quantum Physics II
PHYC02Y Electricity and Magnetism II
PHYC03F Advanced Laboratory
PHYC06F Statistical Physics
JPCM02S Classical Mechanics
MATIC51F Differential Equations I
MATIC60F Complex Analysis I

(4) In the fourth year of full-time study (or equivalent):

one full-course equivalents from:

PHYB14F Special Relativity
JPCM10Y Relativity and Cosmology
JPA00Y Physics and Archeology
PHYD01S Geophysics
PHYD04H Introduction to Condensed Matter Physics
PHYD05H Introduction to Nuclear Physics
PHYD06S Elementary Particle Physics
PHYD09H Electromagnetics
PHYD04H Elasticity and Fluid Mechanics
PHYD05H The Physics of Diagnostic and Therapeutic Radiology
PHYD06S Advanced Quantum Physics Laboratory
PHYD06H Advanced Quantum Physics Laboratory

Note: Students who are interested in graduate studies in physics should consult with the Supervisor, preferably at the beginning of the third year, about the advisability of including one or more 400-series or 500-series courses in their programme.

Major Programme in Physics

Supervisor: A.E. Jacobs

Students must complete eight full-course equivalents in Physics and Mathematics, as specified below. These optional Mathematics courses listed in parentheses are more suitable for students with interest in mathematics and physics or theoretical physics. It is recommended that all students take at least one half-course in computing.

(1) In the first year of full-time study (or equivalent):

PHYA02Y Principles of Physics (or PHYA01 Physics for Life Sciences I)
MATA28Y/MATASSY Calculus

(2) In the second year of full-time study (or equivalent):

PHYB02Y Electricity and Magnetism I
PHYB03F Introductory Electricity
MATB41F Calculus of Several Variables I
MATB42S Calculus of Several Variables II
(or MATBSS Analysis I, MATBSSS Analysis II)

PHYB01F Vibration, Waves and Optics
PHYB01S Quantum Physics I
PHYR06H Intermediate Laboratory

(3) In the third year of full-time study (or equivalent):

PHYC01Y Quantum Physics II
MATIC51F Differential Equations I
One and one-half additional full-course equivalents from PHYB09S, B14F, C08Y,
C08H, COFF, JPCM02S
PHYS42Y  Physics for the Life Sciences II  I. D. King
Experiments in electrophysics; the electromagnetic fields, waves, and radiation; techniques in measurement and analysis; applications in biophysics and medical physics. Includes a project on an experimental investigation in a field of particular interest to the student. Instructor to be determined.

PHYS490  Special Relativity  I. A. Griffin
Experiments in special relativity and the theory of wave functions. Laboratory: Relativistic particle mechanics. Instructor to be determined.

PHYS491  Electromagnetism and Relativity  I. M. Perc
Experiments in electromagnetism and relativity: the Lorentz transformation; the theory of wave functions. Laboratory: Relativistic particle mechanics.

PHYS492  Electricity and Magnetism Laboratory  I. M. Perc
Experiments in electricity and magnetism: the Lorentz transformation; the theory of wave functions. Laboratory: Relativistic particle mechanics.

PHYS61  Special Relativity  I. A. Griffin
Experiments in special relativity and the theory of wave functions. Laboratory: Relativistic particle mechanics. Instructor to be determined.

PHYS62  Electricity and Magnetism Laboratory  I. M. Perc
Experiments in electricity and magnetism: the Lorentz transformation; the theory of wave functions. Laboratory: Relativistic particle mechanics.

PHYS80  Thermodynamics  G. A. Kenway-Wallace, A. Griffin
General principles of classical thermodynamics including the first, second and third laws and applications. Lectures are the same as those for the spring term of CHMB70Y; problems oriented towards applications in physics and engineering.

PHYS90  Thermodynamics Laboratory  G. A. Kenway-Wallace, A. Griffin
Experiments in thermodynamics: the first, second and third laws and applications. Laboratory: Thermodynamics Laboratory.

PHYS100  Theoretical Physics  I. M. Perc
Experiments in theoretical physics: the Lorentz transformation; the theory of wave functions. Laboratory: Relativistic particle mechanics.

PHYS120  Theoretical Physics Laboratory  I. M. Perc
Experiments in theoretical physics: the Lorentz transformation; the theory of wave functions. Laboratory: Relativistic particle mechanics.
POLABY Introduction to Political Studies
(1) A course in political theory (POLA4Y, POLA5Y or B1/Y)
(2) Canadian Government and Politics
(3) Comparative Politics, Industrial Countries: POLB05-90, POLC15-90
(4) Comparative Politics, Developing Countries: POLB99-99, POLC99-99

POLITICAL SCIENCE

Assistant Chairs: E. G. Andrew

Political science consists of a variety of approaches to the study of politics. Politics broadly refers to the process of trying to resolve conflicting interests and points of view in the public realm. One might say the object of Political Science is the study of politics in society. But the discipline includes not only the study of political structures and processes but also the institutional and formal means to enhance a group's power (that is, their ability to have their views and interests implemented) from the level of the municipality to the international realm.

Politics is divided into the following fields. Canadian government, comparative government (subdivided into the politics of industrialized and non-industrialized countries); public administration, international relations; political behavior and theory. In the study of Canadian Government, students will become familiar with constitutional arrangements and policies at various levels of government in Canada. Comparative Government, a comparison of politics and policies of a wide variety of other nations, will broaden the student's awareness of foreign political systems and further facilitate an understanding of Canadian political culture.

Public administration deals with institutions or organizational structures through which public policies are implemented. International relations is devoted to the study of the foreign policy of various nation states and the relations obtaining amongst nation states. Political behavior adopts a quantitative approach to political questions and is differentiated from other divisions of political science in terms of its method rather than its subject matter. Political Theory explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the place of politics in relation to varying conceptions of the "quality of life." Courses may be taken in varying sequences and combinations, leading to a Specialist Programme for those completing an approved Programme of ten full-course equivalents, or to a Major Programme for the completion of a more limited sequence of courses.

Specialist Programme in Political Science
Supervisor: E. G. Andrew

Students who intend to pursue a Specialist Programme in Political Science should, as early as possible, draw up a preliminary programme of study in consultation with a member of the Political Science staff. An orientation meeting will be scheduled in the Fall to help familiarize students with the aims of the Political Science Programmes as well as to introduce faculty responsible for teaching, and career and graduate study guidance. The recommended sequence of courses begins with an introductory course at the A level. Students who wish to pursue advanced courses in Canadian Government should also include POLB10 early in their Programme.

Students must complete ten full-course equivalents in Political Science approved by the Supervisor and including the following:

(1) POLA4Y Introduction to Political Studies
(2) Two courses in political theory from: POLA4Y, POLA5Y, B1/Y, POLC15
(3) POLB10Y Canadian Government and Politics
(4) One course from each of the following:
   A. Public Administration: POLB05-90, POLC15-90
   B. Political Behaviour: POLB65-64, POLB65-69
   C. International Relations: POLB40-80, POLC40-84
   D. Comparative Politics, Industrial Countries: POLB55-90, POLC55-90
   E. Comparative Politics, Developing Countries: POLB99-99, POLC99-99

Additional courses in Canadian Government are POLB15-54 and POLC80-51, and other courses which overlap with public administration, political behaviour, international relations and comparative politics of industrial countries. Students in the Specialist Programme may not take more than four full-course equivalents in Political Science. In selecting courses from other disciplines they should consult with the Supervisor or with a member of the Political Science staff.

Major Programme in Political Science

Supervisor: E. G. Andrew

Students must complete at least six full-course equivalents in Political Science including:

(1) POLA4Y Introduction to Political Studies
(2) POLB10Y Canadian Government and Politics
(3) A course in political theory (POLA4Y, POLA5Y or B1/Y)
(4) A full-course equivalent in at least two of:
   A. Public Administration: POLB05-64, POLB65-64
   B. Political Behaviour: POLB65-69, POLB65-69
   C. International Relations: POLB40-64, POLB65-64
   D. Comparative Politics, Industrial Countries: POLB55-90, POLC55-90
   E. Comparative Politics, Developing Countries: POLB99-99, POLC99-99

Specialist Programme in Economics and Political Science

(see under Economics)

POLA4Y Introduction to Political Studies
J. S. Colman and J. Esberk, M. Donnelly

An introduction to some of the most pressing problems of political life: such as participation, equality, liberty, distribution of power, and the influence of vested interests. Students will examine these problems as they are treated by major political theorists and as they occur in the institutional structure of Canada and some other Western democracies.

Session: Winter Day, Winter Evening

POLB15Y Canadian Government and Politics
J. S. Blair

A study of Canadian political institutions and processes. Specific topics include: the constitution, federalism, fiscal relations, political regionalism, class and politics, Quebec, political parties, interest groups, representation, Parliament, Cabinet, legislative-executive relations, the public service, policy-making. There will be two lectures a week, and tutorial groups of ten to fifteen students a week. The scheme of examination consists of two essays and a term test, each worth 20% of the final mark, and a final examination, worth 60%. For preliminary reading students are recommended to read T. A. Hobson, Government in Canada.

Exclusion: POLB10: POLA4Y prior to 978-79

Session: Winter Day
POLB1F  Government and Politics in Ontario

The course begins with a study of the provincial constitution and then proceeds to an analysis of elections and the party system. Thereafter the major institutions - executive, legislative, and the public service - together with their inter-relationships are examined.

It will be assumed that the students have acquired a basic knowledge of parliamentary government in Canada so that attention can be focused on the distinctive way in which this system operates in Ontario. Where possible emphasis will be placed on case-studies of the system in practice and will include an examination of provincial-local government relations.

The course will be taught in a weekly two-hour seminar and the students will be expected to undertake preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting and will include a combination of examination, essays and class discussion.

Exclusion: (POLB77)
Prerequisite: POLA40 or POLB30 formerly B01.
Session: Winter Day

POLB1F  Canadian Constitutional Law

The greater part of the course will be devoted to an examination of the judicial role in interpreting the division of legislative powers contained in the R.N.A. Act. The terms of relevant decisions will be analysed in detail. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers.

The scheme of evaluation consists of an essay and a final examination, each worth 50% of the final mark. The main text for the course is Peter H. Russell's, Leading Constitutional Decisions (rev. ed.).

Exclusion: (POLB12)
Prerequisite: POLB10 or POLA10 prior to 1978-79
Session: Winter Day

POLB3V  Public Policies in Canada / R. Mackay

A study of the parents of growth in federal and provincial policies for economic progress, social order, and human development; of the relationship between changing public policies and Canadian political development; and of the contributions made by instruments of government toward the achievement of basic political values.

Exclusion: (POLB35)
Session: Winter Day

POLB4G  Intergovernmental Relations

An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.

Exclusion: (POLB10)
Prerequisite: POLA40
Session: Winter Day

POLB6Y  Public Administration / J. Galdenberi

An examination of the role of the bureaucracy in the Canadian and other political systems, focusing on organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and ways and means of controlling it.

Exclusion: (POLB50)
Session: Winter Day

POLB9V  Political behaviour / J. Fitchett

An introduction to the analysis of political behaviour. This course will examine the empirical and theoretical efforts of political scientists to discern the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology. Lectures and discussions.

Exclusion: POLB20
Session: Winter Day

POLB7Y  Political Thought from Plato to Locke / E. Andrew

A discussion of the political thought of Plato, Aristotle, Augustine, Machiavelli, Hobbes and Locke. Students will be expected to read Plato's Republic, Aristotle's Politics, Machiavelli's The Prince, Hobbes's Leviathan (Parts one and two) and Locke's Second Treatise of Government. The political writings of St. Augustine and St. Thomas Aquinas will also be studied.

The teaching method will be two hours of lectures and one tutorial hour per week. Evaluation will be based on a final examination (50%) and two term papers (each 25%).

Exclusion: (POLB96)
Session: Winter Day

POLB7Y  Political Thought of the Eighteenth and Nineteenth Centuries / S. Solomon

A study of the major political thinkers of the eighteenth and nineteenth centuries. Students will be expected to study selected writings of Rousseau, Montesquieu, Burke, Tocqueville, J.S. Mill and Marx.

The teaching method will be two hours of lecture. The course evaluation will be based on a final examination (50%) and two term papers (each 25%).

Exclusion: (POLB99)
Session: Winter Day

POLB3Y  International Relations / A. Rubinson

This course examines the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world.

Exclusion: (POLB42)
Prerequisite: POLB10 or (POLB26 now POLB87)
Session: Winter Day

POLB6Y  Soviet Government and Politics / S.G. Solomon

The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects.

The course examines the formation and consolidation of the Soviet political order and the urgent problems confronting Soviet society today, both internally and in its relations with other states. This is a lecture course. Students will be evaluated on the basis of one essay each semester and a final examination.

Exclusion: (POLB23)
Session: Winter Day

POLB7Y  U.S. Government and Politics / M.W. Dennehy

A general examination of national institutions and political processes in the United States with special emphasis on the role of presidential leadership in policy making. Specific topics include: the "constitution", the social basis of political conflict, political participation, the links between state and society, the Washington Community and patterns of public policy. Teaching method will consist of lectures and discussion. Evaluation will be based on a combination of exams and essays.

Exclusion: (POLB97)
Session: Winter Day

POLB3Y  Urban Politics

An examination of the politics and government in urban areas: the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.

Exclusion: (POLB36)
Session: Winter Day

POLB9Y  Politics and Society in Contemporary Japan

An examination of the politics and government in contemporary Japan. Special attention will be given to social and cultural explanations of political behaviour. The contributions made by government policy toward achieving "reconciliation" economic growth will be considered.

Exclusion: (POLB98)
Session: Winter Day
POLC105Y Politics of the Third World / R. J. K. Sandbrook
The major aim of this course is to demonstrate that any successful anti-poverty programme for Third World societies must combine widespread change in both national and international political and economic orders. The course examines various factors which condition the political economy of each of four Third World countries—the structuring influences emanating from advanced industrialized countries, the political and administrative capacity of each country, the objectives of the non-governmental sector, and the nature and structure of the political parties. The course will also explore the role of the multilateral agencies, such as the World Bank and International Monetary Fund, in influencing the policies of these countries. The course will cover the cases of Mexico, Brazil, South Africa, and Nigeria. 
Exclusion: (POLB19) 
Session: Winter Term

POLC106Y Urbanization and Underdevelopment / R. J. K. Sandbrook
This course will focus on underdeveloped countries and the urban areas of those countries. The course will also examine the role of multinational corporations in underdeveloped countries. 
Exclusion: (POLB31) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC107Y Comparative Communism / V.C. Falkenhayn
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLC26) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC108Y Introduction to Political Theory / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC109Y Political Science for Political Scientists / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC110Y Politics of the Third World / R. J. K. Sandbrook
The major aim of this course is to demonstrate that any successful anti-poverty programme for Third World societies must combine widespread change in both national and international political and economic orders. The course examines various factors which condition the political economy of each of four Third World countries—the structuring influences emanating from advanced industrialized countries, the political and administrative capacity of each country, the objectives of the non-governmental sector, and the nature and structure of the political parties. The course will also explore the role of the multilateral agencies, such as the World Bank and International Monetary Fund, in influencing the policies of these countries. The course will cover the cases of Mexico, Brazil, South Africa, and Nigeria. 
Exclusion: (POLB19) 
Session: Winter Term

POLC111Y Urbanization and Underdevelopment / R. J. K. Sandbrook
This course will focus on underdeveloped countries and the urban areas of those countries. The course will also examine the role of multinational corporations in underdeveloped countries. 
Exclusion: (POLB31) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC112Y Comparative Communism / V.C. Falkenhayn
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLC26) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC113Y Political Science for Political Scientists / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC114Y Politics of the Third World / R. J. K. Sandbrook
The major aim of this course is to demonstrate that any successful anti-poverty programme for Third World societies must combine widespread change in both national and international political and economic orders. The course examines various factors which condition the political economy of each of four Third World countries—the structuring influences emanating from advanced industrialized countries, the political and administrative capacity of each country, the objectives of the non-governmental sector, and the nature and structure of the political parties. The course will also explore the role of the multilateral agencies, such as the World Bank and International Monetary Fund, in influencing the policies of these countries. The course will cover the cases of Mexico, Brazil, South Africa, and Nigeria. 
Exclusion: (POLB19) 
Session: Winter Term

POLC115Y Urbanization and Underdevelopment / R. J. K. Sandbrook
This course will focus on underdeveloped countries and the urban areas of those countries. The course will also examine the role of multinational corporations in underdeveloped countries. 
Exclusion: (POLB31) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC116Y Comparative Communism / V.C. Falkenhayn
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLC26) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC117Y Political Science for Political Scientists / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC118Y Politics of the Third World / R. J. K. Sandbrook
The major aim of this course is to demonstrate that any successful anti-poverty programme for Third World societies must combine widespread change in both national and international political and economic orders. The course examines various factors which condition the political economy of each of four Third World countries—the structuring influences emanating from advanced industrialized countries, the political and administrative capacity of each country, the objectives of the non-governmental sector, and the nature and structure of the political parties. The course will also explore the role of the multilateral agencies, such as the World Bank and International Monetary Fund, in influencing the policies of these countries. The course will cover the cases of Mexico, Brazil, South Africa, and Nigeria. 
Exclusion: (POLB19) 
Session: Winter Term

POLC119Y Urbanization and Underdevelopment / R. J. K. Sandbrook
This course will focus on underdeveloped countries and the urban areas of those countries. The course will also examine the role of multinational corporations in underdeveloped countries. 
Exclusion: (POLB31) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC120Y Comparative Communism / V.C. Falkenhayn
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLC26) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC121Y Political Science for Political Scientists / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC122Y Politics of the Third World / R. J. K. Sandbrook
The major aim of this course is to demonstrate that any successful anti-poverty programme for Third World societies must combine widespread change in both national and international political and economic orders. The course examines various factors which condition the political economy of each of four Third World countries—the structuring influences emanating from advanced industrialized countries, the political and administrative capacity of each country, the objectives of the non-governmental sector, and the nature and structure of the political parties. The course will also explore the role of the multilateral agencies, such as the World Bank and International Monetary Fund, in influencing the policies of these countries. The course will cover the cases of Mexico, Brazil, South Africa, and Nigeria. 
Exclusion: (POLB19) 
Session: Winter Term

POLC123Y Urbanization and Underdevelopment / R. J. K. Sandbrook
This course will focus on underdeveloped countries and the urban areas of those countries. The course will also examine the role of multinational corporations in underdeveloped countries. 
Exclusion: (POLB31) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC124Y Comparative Communism / V.C. Falkenhayn
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLC26) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC125Y Political Science for Political Scientists / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC126Y Politics of the Third World / R. J. K. Sandbrook
The major aim of this course is to demonstrate that any successful anti-poverty programme for Third World societies must combine widespread change in both national and international political and economic orders. The course examines various factors which condition the political economy of each of four Third World countries—the structuring influences emanating from advanced industrialized countries, the political and administrative capacity of each country, the objectives of the non-governmental sector, and the nature and structure of the political parties. The course will also explore the role of the multilateral agencies, such as the World Bank and International Monetary Fund, in influencing the policies of these countries. The course will cover the cases of Mexico, Brazil, South Africa, and Nigeria. 
Exclusion: (POLB19) 
Session: Winter Term

POLC127Y Urbanization and Underdevelopment / R. J. K. Sandbrook
This course will focus on underdeveloped countries and the urban areas of those countries. The course will also examine the role of multinational corporations in underdeveloped countries. 
Exclusion: (POLB31) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC128Y Comparative Communism / V.C. Falkenhayn
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLC26) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term

POLC129Y Political Science for Political Scientists / R. J. K. Sandbrook
This course will focus on the development of political parties in a variety of countries currently governed by Marxist-Leninist regimes. 
Exclusion: (POLB19) 
Prerequisite: One B-level course in Political Science 
Session: Winter Term
POLB83Y Comparative Politics of Industrial Societies
Exclusion: POLB818
Prerequisite: One course in Political Science or permission of instructor

POLB82Y Politics and Society in Independent Africa
Exclusion: (POLB827)
Prerequisites: None, but a course in Introductory Political Science would be helpful

POLC84W Formal and Government of South Asia
Exclusion: (POLC857)
Prerequisites: None, but a course in Political Science would be helpful

POLC85Y Canadian Problems in Comparative Perspective
Exclusion: (POLC855)
Prerequisites: One of POLA801, A09, B26, B34

POLC82F Organised Interests and the State
Prerequisites: (POLB801) - now 860 or (POLB895) - now 853

POLC82F Topics in Political Leadership
Exclusion: (POLA822)
Prerequisites: POLB801, POLB802 or POLA801 or POLB807 (POLC857) or POLB857 (POLC857) or POLC857 (POLC857)

POLC83F Psychology of International Relations
Exclusion: (POLC715)
Prerequisites: POLE844 or POLM810

POLC86F Interactional Relations in the European Economic Community
Exclusion: POLB834

PSYCHOLOGY

Psychology is that branch of science which seeks to understand behaviour and experience. Why human and infrahuman acts as they do is a puzzle which has always challenged mankind. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. But the methods of scientific inquiry can also be applied to an understanding of behaviour.

The aim of interest which psychology encompass includes: how organisms perceive their environments; how they learn and adapt: how they change over their lifetimes; how they choose among alternative courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behaviour; how their behaviour relates to physiological functions; and how individuals differ from each other. The course offerings in Psychology consider how psychologies pursue enquiries into these areas and what knowledge they have gained.

The Specialist Programme in Psychology includes courses from the main subfields within the discipline. It has been designed both for students wishing to pursue graduate work in psychology and for students who have a general interest in this field. Students considering graduate study in Psychology should include the thesis course (PSY820/860) in their Programme. The Major Programme is similarly designed to expose the student to the main areas within Psychology and is recommended for students with any specialized interest in the field.

Specialist Programme in Psychology

Supervisor: J.N. Bassili

The programme requires completion of eleven full-course equivalents.

A. Nine full-course equivalents in Psychology as follows:

1. PSYA81Y Introduction to Psychology
2. PSYB80Y Data Analysis in Psychology
3. At least one full-course equivalent from among PSYB80Y, PSYB82Y, PSYB84Y, PSYB81Y, PSYB82Y (These courses involve laboratory exercises and expose students to experimental design and methodology in psychology.)
4. At least one full-course equivalent from the B-level 40-, 60-, and/or 80-series. (This series represents social, developmental and personality psychology respectively.)
5. At least one additional full-course equivalent from the B-level 40-, 60-, and/or 80-series. (This series represents learning, physiological and comparative psychology.)
6. At least one additional full-course equivalent from the B-level 50- series. (Cognitive psychology: human learning, memory, sensation and perception.)
7. At least two full-course equivalents at the C-level. Not more than one full-course equivalent selected from CMW/52U, CMW/52V, and CMW may be offered in satisfaction of this requirement. (CMW courses involve supervised study or research.)
8. One and one-half additional full-course equivalents at the B or C-level in any area in Psychology.

B. Two full-course equivalents, agreed upon in consultation with the Supervisor, in ANT, BIO, CRC, LIN, MAT, PHI, and SOC. A list of current courses which are approved is available from the Supervisor.

Major Programme in Psychology

Supervisor: J.N. Bassili

The programme requires completion of six full-course equivalents in psychology as follows:

1. PSYA81Y
2. PSYB80Y
3. At least one full-course from among PSY80Y, PSY81Y, PSY82Y, PSY84Y, PSY85Y, PSY86Y. (These courses involve laboratory exercises and expose students to experimental design and methodology in psychology)
4. At least one additional full-course from the B-level 40-, 60-, and/or 80-series. (This series represents social, developmental and personality psychology respectively.)
5. At least one additional full-course from the B-level 40-, 60-, and/or 80-series. (This series represents learning, physiological and comparative psychology)
6. At least one additional full-course from the B-level 50- series. (Cognitive psychology: human learning, memory, sensation and perception.)
7. At least one full-course equivalent at the C-level. (This full-course equivalent cannot be composed entirely of courses selected from the C-80 series.)
8. One and one-half additional full-course equivalents at the B or C-level in any area in Psychology.

PSY840Y Introduction to Psychology
J. C. Kühler, P. Cohen

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are initiated, sustained, and directed.

The psychological basis of behaviour, particularly the functionings of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality; and abnormalities of behaviour and experience.

Two two-hour lectures per week. Lectures include discussion, demonstrations, films and laboratory exercises (TBA). One comprehensive text and one book of relevant readings (the titles have not yet been selected). There will be two term tests during the course (45%); a final examination (45%); laboratory reports (10%).

Exclusion: (PSY840)
Session: Winter Semester

PSY841Y Introduction to Psychology
J. C. MacLeod, The Faculty

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are initiated, sustained, and directed.

The psychological basis of behaviour, particularly the functionings of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality; and abnormalities of behaviour and experience.

Three lecture hours per week. In addition, students will complete four laboratory exercises in the course of the year, each requiring four hours of lab attendance on days to be scheduled early in the session. Four term tests (two in each term) in class hours (40%); three-hour final exam (45%); three lab reports (15%).

Exclusion: (PSY840)
Session: Winter Day, Winter Evening
PSYB07 Data Analysis in Psychology / B. Ford

The course is designed to cover the statistical methods for conducting research and analyzing data. It is intended to provide students with the skills necessary to design and analyze research data. The course will focus on the application of statistical methods to psychological research.

Prerequisites: PSYB06
Session: Winter

PSYB08 Experimental Design in Psychology / B. Ford

The course is designed to cover the design of experiments in psychology. It is intended to provide students with the skills necessary to design and conduct psychological experiments. The course will focus on the design of experiments, including the selection of research methods, the design of experimental procedures, and the analysis of experimental data.

Prerequisites: PSYB07
Session: Winter

PSYB09 General Experimental Psychology / G.B. Biederman

The course is designed to cover the fundamental concepts and principles of psychology. It is intended to provide students with a comprehensive understanding of the major areas of psychology, including the history of psychology, the methods of psychology, the nature of thought processes, and the development of personality.

Prerequisites: PSYB07
Session: Winter

PSYB10 Introduction to Social Psychology / E. Rozell

The course is designed to provide an introduction to the study of social psychology. It is intended to provide students with an understanding of the basic concepts and principles of social psychology, including the nature of social influence, social cognition, and social behavior.

Prerequisites: PSYB01 or PSYB02
Session: Winter

PSYB11 Social Psychology Laboratory / K. Duran

The course is designed to provide an opportunity for students to apply the concepts and principles of social psychology through the design and execution of research projects. Students will be expected to work in small groups to design and conduct research projects, analyze data, and write a research report.

Prerequisites: PSYB07, PSYB05
Session: Winter

PSYB12 Developmental Psychology / M. Terner

The course is designed to cover the major topics in the field of developmental psychology. It is intended to provide students with a comprehensive understanding of the major stages of human development, including prenatal development, infancy, childhood, adolescence, and adulthood.

Prerequisites: PSYB01 or PSYB02
Session: Winter, Summer
PSYB350 The Measurement of Psychological Attributes  J. B. Furno
A fundamental concern within psychology is the means by which the attitudes and abilities of individuals, their interests and attitudes, their ordering character traits may be measured. Methodological principles underlying the construction of psychological tests, the interpretation of the scores they yield and the assessment of their value are discussed and illustrated by reference to a variety of psychometric techniques. Characteristic attention is also devoted to commonly substantive issues associated with the measurement of psychological attributes, including the nature of "intelligence".

The course is intended to foster an understanding of how psychologists seek to derive meaning from measurement; it does not take as a significant objective the development of practical skills in test administration. For a detailed survey of topics covered, see Anastasi's *Psychological Testing* (4th ed.) or Cronbach's *Essentials of Psychological Testing* (2nd ed.). Three hours of lectures per week. The final course grade is commonly based on problem sets and a brief quiz (20%), two term tests (40%), and a final examination (40%).

Prerequisites: PSYB07 or STAB57 (MATB57); one additional half-course in Psychology at the B-level

Session: Winter Day

PSYB409 Learning  J. B. Birdwheran
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to the problems and techniques in the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction. The course provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation. Evaluation will be based on the same method as PSYB059.

Prerequisites: PSYA01 or PSY07; PSYB09, PSYB20 or STAB57 (MATB57)

Session: Winter Day

PSYB415 Operant Conditioning  J. B. Birdwheran
Review of operant conditioning. Laboratory exercises in operant schedules of reinforcement and stimulus control of behavior. The course emphasizes study of the control of steady-state performance and provides opportunity for the observation and control of operant behavior in humans and laboratory animals. Topics include: complex schedules of reinforcement, stimulus control, models of operant behavior, discussion of applications of operant techniques in behavior modification. Evaluation will be based on the same method as in PSYB09.

Prerequisites: PSYB01 or PSY07: PSYB20, PSYB37 or STAB57 (MATB57) and PSYB40 are recommended

Session: Winter Day

PSYB500 Sensation and Perception  A. Cohen
An investigation into the processes by which we gain information about the world around us, and the laws which govern the way in which that information is used to construct our perceptions. Stimuli for the human senses, especially light and sound: receptors and sensory pathways with emphasis on vision; sensitivity; colour and space; temporal and personal resolution; contrast; perception of space and movement; perception of pattern and form. The teaching methods will be lectures, for which preparatory reading will be important, and classroom demonstrations of phenomena under discussion. Final examination and term assignment (involving both in-class and at-home activities) will be required.

Prerequisite: PSYB01 or PSY07

Session: Winter Evening

PSYB515 Perceiving and Knowing  J. M. Kennedy
In-depth study of information about our environment we rely on first-hand contact with real things, and also on second-hand contact, with representations - we have to distinguish between reality and appearance, objects and images, the pictured and the pictures. The course examines such distinctions using data from children and adults, from different cultures, from different eras, and from different species. Demonstrations and exercises will form part of the course work, but prior knowledge of laboratory procedures is not required.

Theories of representation and research studies by psychologists and educators. Specific topics include perception in the perceptually handicapped, projection, outline representation, machine decoding of pictures, trompe l'oeil, ambiguous pictures, impossible objects, metaphor in pictures, perception by special groups in New Guinea, Africa, India. Core art, literary effects. The teaching method will consist of lectures and exercises. Evaluation will be on the basis of three exercise reports and two multiple-choice final examinations.

Prerequisite: A B-level course in Psychology (or PSYB01 or PSYB20) and permission of instructor

PSYB20, PSYB32, FARA73, PSYB03 are recommended

Session: Winter Day

PSYB675 Human Learning and Memory  I. C. MacLeod
Discussion of the theoretical and experimental literature on human learning and memory. A general cognitive perspective is taken, where learning and memory are considered as critical aspects of active information processing. The course will provide an in-depth analysis of the encoding, storage, and retrieval processes involved in active memory and in long-term memory.

The teaching method will consist of three lecture-hours per week. Concise presentations from the text and original sources will supplement and extend the lecture material. Students should be prepared to deal with a considerable amount of reading and thinking about the topics. Extra class sessions will be arranged to assist with issues of less general interest. Evaluation will be based on the basis of three components to the course grade: a multiple-choice mid-term exam worth 30%; a non-cumulative end-of-term exam also worth 30%; and a term paper worth 40%.

Prerequisite: PSYB01 or (PSYB02); PSYB20 or permission of instructor

Session: Winter Day

PSYB680 Brain Mechanisms and Behavior  I. W. Milgram
Students with prior credit for PSYB350 may take PSYB680 for credit. This course and PSYB681 deal with the relationship between structure and function of the nervous system. Topics covered in PSYB680 include: neurotransmission, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behavior of an organism. Neuroscience, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement.

The teaching method is three hours lecture and one hour lab or tutorial per week.

Prerequisite: PSYB01 or (PSYB02); PSYB685 is recommended for students with no biology background.

Session: Winter Day, Summer Evening

PSYB685 Brain Mechanisms and Behavior: II Physiology of Motivation and Learning  I. Pritscher
This is a continuation of the topics covered under the category of Motivation, including: physiological basis of eating, drinking and sexual behavior, sleep, and the neural correlates of reward. Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, biosynthesis and memory. The course is designed to provide students with an understanding of the physiological substrates underlying behavior. Discussions will center around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In motivation, the general areas of feeding, sexual behavior, and reinforcement will be discussed from a neurochemical and neurophysiological perspectives. Neuropeharmacological basis of learning and memory will be dealt with and then integrated with motivational models to provide a basis for understanding brain function in behavior. Three hours of lecture per week. Two exams: midterm and comprehensive final. 50% each.

Prerequisite: PSYB60

Session: Winter Day
PSY820 Research in Physiological Psychology / J. N. Milgrim
Students learn how to use a variety of techniques used in investigations of nervous system function. The course is intended for students intending to pursue a Specialist Programme in either Psychology or Biology and who are particularly interested in the neuroscience.

The course starts out with a dissection of a sheep brain. Subsequently, the procedures covered include: (i) histology (preparing, cutting and staining neural tissues); (ii) localizing specific regions of the central nervous system; (iii) chemical stimulation of the brain; (iv) electrical stimulation of the brain; (v) programming relay circuits; (vi) electrophysiological recording techniques. The teaching methods involve lectures by the instructor and discussion of cases studied in the laboratory. The course involves a series of five laboratory projects: three mid-term examinations and one final examination.

Prerequisites: PSY101 or (PSYAD2, PSYB07 or STAB57), PSYD09 or a Biology course, permission of instructor
Corequisites: PSYB06, PSYB01 and PSYD09 are recommended
Session: Winter Day

PSY800 Biological Foundations of Behaviour / T. Pettig
Students with prior credit for PSY100 may not take PSY800 for credit. The course examines the structural and physiological basis of behavior. It is geared towards non-biologically oriented students.

The course and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behavior. Once these basic fundamentals are covered the course then focuses on the following: disorders of the central nervous system (multiple sclerosis, epilepsy); organic brain damage; strokes, senility, mental deficiency and speech disorders; drugs of use and abuse; nutritional, depressive, and hallucinogenic; and the biological basis for violence, schizophrenia, depression, psychosis and anxiety. The teaching method is three hour lecture weekly. There are two exams, mid-term and comprehensive final. Worth 35% each.

Exclusion: PSY800
Prerequisites: PSY100 or permission of instructor
Session: Winter Day

PSY150 Current Topics in Social Psychology / J. Bassili
An intensive examination of selected issues and research problems in social psychology. Limited enrollment: 25.

The course will review the development of important theoretical and empirical approaches to the study of social perception. There will be a "New Look" approach, impression formation, attribution theory, and the perception of emotion and of social interaction. The teaching method is lectures and discussions. Evaluation consists of two one-hour examinations; one term paper.

Prerequisites: PSYB102 or PSYB110 plus permission of instructor
Session: Winter Day

PSY250 Current Topics in Developmental Psychology / M. Túmero
An intensive examination of selected issues and problems in developmental psychology. Limited enrollment: 25.

The course will cover the development of the nervous system and correlated behavior from conception to death. The major emphasis will be on prenatal brain development, and factors governing its normal or abnormal growth. The other end of the developmental spectrum, the aging brain will also be considered, including the biological problems and theories of aging on the brain. Students will be required to work 3.5 hours per week in a practical situation, working with either mentally retarded, autistic, or hyperactive children, with aged or senior adults, or with experimental laboratory animals. There will be two hours of discussion every two weeks, and one hour every week under the supervision of the instructor. The final evaluation will be based on written reports and presentations in class and particularly in the practical setting.

Prerequisites: PSYB100, permission of instructor
Session: Winter Day

PSYC255 Computer Psychology / J. M. MacLeod
Examination of the widespread impact of computers on modern psychology. The course begins with an overview of the machine (hardware) and programming languages (software), and proceeds to using computers to collect and analyze data, as well as to examine techniques and theories through simulations. Students will be given an "hands-on" experience using a laboratory computer. Limited enrollment: 20.

The teaching method will consist of one two-hour lecture and one hour discussion weekly. Students are required to do a project which involves using the computer. Evaluation will be based on 50% participation in class, 40% homework assignments, and 10% the project.
Prerequisites: PSY800 or computer programming would be useful
Session: Winter Day

PSY350 Current Topics in Physiological Psychology / P. Peric
An intensive examination of selected issues and research problems in physiological psychology.

The course covers the development of the nervous system and correlated behavior from conception to death. The major emphasis will be on prenatal brain development, and factors governing its normal or abnormal growth. The other end of the developmental spectrum, the aging brain will also be considered, including the biological problems and theories of aging on the brain. Students will be required to work 3.5 hours per week in a practical situation, working with either mentally retarded, autistic, or hyperactive children, with aged or senior adults, or with experimental laboratory animals. There will be two hours of discussion every two weeks, and one hour every week under the supervision of the instructor. The final evaluation will be based on written reports and presentations in class and particularly in the practical setting.

Prerequisites: PSYB100, permission of instructor
Session: Winter Day

PSY350/351 Supervised Study in Psychology / Supervision by a faculty member
A research oriented study of a topic in psychology.

This course provides an opportunity to investigate an area of depth in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in a field of study. The student must demonstrate that he or her background is adequate for the investigation of the topic. Course work includes independent research, and result disseminated in written form. Such a project will normally culminate in a written report but other forms of evaluation may be submitted by the supervisor. There is no final examination.

Prerequisites: Three first-year courses in Psychology. Permission of instructor
Session: Winter Day, Winter Evening
PSYC408 Thesis in Psychology / Coordinator: K. Dion
This course is intended to offer qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others and to discuss the results of their investigation.
Students will meet as a group with the coordinator as well as individually with the supervisor. The final grade will depend on all aspects of the student's performance including the quality of the written thesis which will be read by both supervisor and coordinator.
Prerequisites: Satisfactory completion of fifteen full-course equivalents in any discipline but including PSY810; one laboratory half-course in Psychology and two additional full-course equivalents in Psychology; consent of a faculty member in Psychology to serve as research supervisor.
Corequisite: PSY308 recommended.
Session: Winter Day

PSYCHOLOGY COURSES NOT OFFERED in 1980-81
PSY8122 Advanced Social Psychology
Prerequisites: PSY810
PSY845 Behaviour Modification: Origins and Application
Prerequisite: PSY810
PSY852S Human Information Processing
Prerequisites: PSY810, PSY807 or STAB57 (MAT57), PSY809
PSY866 Man and Machines
Prerequisites: PSY810 or PSY802; quantitative skills such as are required in PSY807; or PSY809 are an advantage
PSY876S Comparative Psychology
Prerequisite: PSY810 or PSY802
PSY8C4S Phenomenological Psychology
Prerequisite: Three B-level half-courses in Psychology
PSY940 Current Topics in Animal Learning
Prerequisite: PSY840
PSY952 Structures in Psychology
Prerequisites: PSY807 or STAB57 (MAT57) or PSY809; PSY820 or PSY851; permission of instructor.
PSY950 Philosophy and Psychology
Prerequisites: Three B-level half-courses in Psychology and one B-level half-course in Philosophy
PSY955S History of Psychology
Exclusion: (PSY855)
Prerequisites: PSY810 or PSY812; two B-level half-courses in Psychology

QUATERNARY STUDIES

Major Programme in Quaternary Studies
Supervisor: B. Greenwood
The Quaternary Period embraces the last two million years of earth history. Major climatic changes which occurred during this time resulted in repeated expansion and recession of continental and mountain glaciers, alternating wet and dry periods in low latitudes, marked fluctuations in sea level, development of ephemeral but often large island seas and proglacial lakes, etc. These dramatic changes have strongly influenced the distribution and, to an extent, the forms of plant and animal life on earth today. Among these are the Hominids whose appearance and development coincides with the Quaternary.

Detailed reconstruction of Quaternary environments - involving both the physical and biological components of the landscape - and their current and historical context is clearly an interdisciplinary task. Such studies bring together the Quaternary geologist, physical geographer, historical ecologist, Quaternary anthropologist, archaeologist and many others. In this Programme the student will develop experience in the multidisciplinary approaches used in studying the Quaternary as well as specialist expertise in one or more of the sub-disciplines.

The Programme consists of seven courses, two of which are required: QUA480Y and QUA490Y. Both reflect the interdisciplinary nature of Quaternary Studies and are presented by faculty from Scarthbrook College and occasionally from other parts of the University who are involved in Quaternary research. Of the remaining five courses required, the student is given a wide choice but is nevertheless expected to develop expertise in one (or more) of the sub-disciplines by following a sequence of A and B- or C-level courses noted below.

A-Level
QUA480Y (NSCA43) Ice Ages and Human Ecology
plus at least two of:
ANT824Y Introduction to Anthropology
BIO120Y Introductory Biology
GEO810Y Introduction to Physical Geography
GLG810Y Planet Earth: An Introduction to Geology
B & C-Level
QUA490Y (NSCA52) Quaternary Environments and Man
plus at least three full-course equivalents from:
ANT826Y Introduction to Prehistoric Archaeology
or
ANT814F Pleistocene People
and
ANT812S Prehistory of the Holocene
ANT814Y Human Evolution
BIC102Y Fundamentals of Ecology
BIC135Y Biogeography
BIC150Y Quaternary Plant Ecology
BIC335Y Geomorphology: The Quaternary Epoch
GGR255S Sedimentary Models
GGR285Y Climatology

* The student should note that prerequisites for these courses are not included in the Quaternary Studies Programme.

QUA480Y Quaternary Environments and Man / I. R. Greenwood (Coordinator)
An interdisciplinary course dealing with the physical, biological and cultural events and processes of the Quaternary Period. Following a detailed consideration of the methodology of Quaternary investigations, the course takes up a series of regional case studies focusing on the reconstruction of environments and human adaptations at various stages in the Period.
One two-hour lecture per week and one three-hour laboratory on alternate weeks.
Prerequisites: QUA480 (NSCA43) or permission of instructor
Session: Winter Day

COURSES NOT OFFERED in 1980-81
QUA480Y Ice Ages and Human Ecology

RENAISSANCE STUDIES

These Programmes are for students who wish to study the various cultural aspects of the period known as the Renaissance. Their names are interdisciplinary, and they necessitate learning the methods of more than one discipline. Many of the courses (those with an asterisk) require prerequisites within the disciplines that offer them, and the student is advised to plan his programme carefully so that he does not choose more courses with prerequisites than he can qualify for. For example a student who plans to take ITA480Y, ITA485 or ITA487Y should note that ITA485 or ITA487Y is a prerequisite to these courses, and plan his programme accordingly. The student should also note that some of the normal prerequisites can be waived for students in these Programmes. (It will be noted that courses on the St. George campus are also listed. The student, must, however, take the majority of his courses at Scarthbrook College.)
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<tr>
<th>Prerequisites in Spanish:</th>
<th>SPAB01V</th>
<th>SPAB03S</th>
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<tr>
<td>English Essay - Grade 11 Spanish</td>
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Courses in the Literature:

- ENGB90Y* Poetry and Prose of the English Renaissance
- ENGH10Y Shakespeare
- FNGH21Y* English Drama to 1642
- HSC10Y* Studies in the Renaissance
- HSC11Y* Problems in Later Shakespeare
- FRAC35Y* Literature of the Renaissance
- FRE61Y* Baroque and Mannerism
- ITAB11Y* Dante and Medieval Culture
- ITAB30Y* Petrarch and Boccaccio
- ITAB33S Macchiavelli and Aspects of the Italian Renaissance (Exclusion: HUMB03S)
- ITAB37S* The Renaissance Epic
- ITAB38S* Italian Sixteenth-Century Theatre
- ITAB39S* Lyric Poetry of the Renaissance
- ITAB40S* Reformation and Baroque Literature
- HUMC11H* Humanism Seminar
- HUMB3N* World Views from the Late Middle Ages to the Renaissance
- HUMB50* Macchiavelli and Aspects of the Italian Renaissance (Exclusion: ITAB33)
- SPAB14* Golden Age Drama
- SPAB3S* Golden Age Poetry
- SPAB75S* The Literature of the Spanish Mystics
- SPAB90Y* Golden Age Literature
- VICO2Y* Renaissance Italian Literature in Translation

**Major Programme in Renaissance Studies**

**Supervisor:** E. F. Visari

Students must complete seven full-course equivalents from the following list:

(1) Background

Two full-course equivalents from the following:

- HSB13Y* Europe in the Reformation Era, 1500-1650
- HSC10Y* The Renaissance in Europe, 1550-1550
- HSC11Y* The Renaissance
- HUMA1Y* Greek and Roman Mythology
- REL10Y* Basic Christian Beliefs
- REL20Y* Reformation in the 16th Century
- REL21Y* Christianity: Middle Ages and Renaissance
- REL30Y* The Mythological Framework of Western Culture
- PHIL14S* Philosophers of the Middle Ages I
- PHIL24S* Philosophers of the Middle Ages II
- PHIL34S* Plato and His Predecessors I
- PHIL44S* Plato and His Predecessors II
- PHIL54S* Aristotle I
- PHIL64S* Aristotle II
- PHIL74S* Philosophy of the Early Modern Age
- PHIL84S* Philosophy in Western Culture
- GLL10Y* Greek and Roman Philosophy
- PHIL20Y* The Birth of Western Philosophy (Plato and Aristotle)
- PHIL26H* Political Theories: Ancient and Medieval
- POL870Y* Political Thought from Plato to Locke

(2) Fine Art, Music and Drama

The student must take two of FAR825F, FAR825F and FAR829Y, and two additional full-course equivalents from the group.

- FAR825F The Arts of Northern Europe, 1400-1475
- FAR825F Renaissance in Italy
- FAR825F Studies in the High Renaissance - Michelangelo
- FAR829Y* Studies at the High Renaissance I
- MUSIC84S* Music of the Renaissance
- MUS100H* Music in Elizabethan England
- MUS105H* Early Music
- DRAM12H* Medieval and Early Tudor Drama
- DRAM14S* European Art from 1400-1790

(3) Language and Literature

The student must take three full-course equivalents in literature, one of which must be in a language other than English. In addition to the three literature courses, therefore, he may have to satisfy prerequisites in language, from those listed below.

**Prerequisites in French**

- FREN40Y* Language Practice I
- One full-course course in French, not B11F, B125S, or B145Y.

**Prerequisites in Italian**

- ITAA81Y or A11Y or Grade 11 Italian
- ITAB0Y or B11Y

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<th>Prerequisites in French</th>
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RUSSIAN

Discipline Representative: S. Whalen

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. All Russian literature courses, with the exception of RUSC101, CIDF, CID3, CID7, are taught in translation and are open to non-specialists.

College Programme in Russian and Related Studies

Supervisor: S. Whalen

This Programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a Programme in Russian and Related Studies can do much to promote a better understanding between East and West, in academic, governmental, industrial, journalistic and other fields.

The Programme is aimed at two different groups of students: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature or Russian and Soviet history, political science or economics; second, those interested in a general knowledge of the area as a complement to some other field of study.

The Programme requires the completion of ten full-course equivalents, one of which must be at the C-level:

(1) Two consecutive courses in Russian language from RUSAI0Y, RUSB02Y, RUSC02Y.

(2) Four courses to be chosen from the following three groups and to include one from each group:
   (a) RUSB11Y The Nineteenth Century Russian Novel
   RUSB21Y The Twentieth Century Russian Novel
   RUSB22Y Soviet Russian Underground Literature from the 1930’s to the Present
   RUSC01Y Twentieth Century Russian Poetry
   (b) RUSB07Y Russia from the Thirteenth Century to the Present
   RUSC07Y The Russian Enlightenment
   (c) POLB06Y Soviet Government and Politics
   ECON01Y Introduction to Economics

(3) Four further full-course equivalents to be chosen from (2) or from the following list and to be approved by the Supervisor:
   RUSB08Y Introduction to Russian Culture
   RUSB09Y The Fiction of Leo Tolstoy
   RUSB10Y The Russian Symbolist Novel
   RUSB11Y Post-1945 Soviet Russian Literature
   RUSC01Y Supervised Reading
   HSNB1Y Europe under the Enlightened Despots
   POLC05Y Comparative Communism
   ECOB08Y Comparative Economic Systems
   ECOC07Y The Economics of Karl Marx

PHIL112F Marx and Marxism
PHIL117Y Aristarchus
HUMB44F Disaster and the Literary Imagination
HUMB31Y The Russian Revolution of 1917
HUMB425Y Dickens and the West

Diveine Programme

Students in the Russian and Related Studies Programme, after completing their second year of Russian language study, become eligible to apply to go to the Pushkin Institute of Russian Language and Literature in Moscow, USSR as participants of the Russian Studies Programme at Dalhousie University.

Each year some twelve Canadian students are selected by Dalhousie to spend four months studying Russian in Moscow (February - May). The programme involves 4 1/2 hours of intensive instruction per day by Soviet staff; students are housed three to a suite at the University Hotel; last afternoon and evenings are free for cultural and other activities. The cost, which covers air transportation Montréal-Moscow return, tuition, room, and board, is $2,500. Before applying to Dalhousie, and in order to improve their chances, interested students are encouraged to undertake some additional Russian language study either in the Scarborough Language Lab at the College, or in a Full-supervised evening course.

For information consult the Supervisor.

Senior Programme in Russian Language and Literature

Supervisor: S. Whalen

The Programme consists of seven full-course equivalents:

(1) Two consecutive courses in Russian language from RUSAI0Y, RUSB02Y, RUSC02Y.

(2) Five further full-course equivalents to be chosen from:
   RUSAI0Y, RUSB11Y, RUSB21Y, RUSB32Y, RUSB42Y, RUSC01Y, RUSC04Y, RUSC06Y, HUMB415Y, HUMB315Y, HUMB425Y.

Students must include at least one full-course equivalent at the C-level.

See also the Specialist Programme in Language and Literature.


The course aims to give students a wide appreciation of Russian culture.

Beginning with a general introduction to the history of Russia, students will be able to familiarize themselves with the history of language Old and Modern Russian in a comparative context; medieval and modern art; the folklore; handicrafts and literature of the pre-Petrine period and literary development from the eighteenth century to the present; the history of the Russian theatre; music and dance. A number of selected films will be shown. Two-hour seminar per week. Evaluation is based on two essays and a final examination.

Semester: Winter Day

HUMB31Y Introductory Russian / N. Kossovitch

Introduction to modern Russian grammar, with emphasis on comprehension and reading, writing and conversation;

The course is designed to introduce the student to the Russian language; reading, writing, elementary grammar, pronunciation, comprehension and conversation. Starting with the Cyrillic alphabet, students will study grammatical formations, conjugations, the aspectual system and word order. Oral emphasis is given to written and oral drills. In addition to a structured weekly work in laboratory and class, free conversation based on material used is encouraged. There are four class hours, in addition to which the student is expected to spend one hour in the language laboratory. The textbook used is Galina Subtarn and others, Introductory Russian Grammar. Notes College Publishing. Evaluation is based on the basis of tests, class performance, homework, and examinations.

Semester: Winter Day
RUS410 Introductory Russian / J. N. Kosachev
This intensive course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday to Friday, for four hours over six weeks of supervised instruction, covering the comprehension and active use of the language. The textbook used is Golitsin Silman and others, Introductory Russian Grammar, Xerxes College Publishing. Evaluation is on the basis of tests, class performance, homework, final examination.
Session: Summer Day (see 1990 Summer Courses and Programmes Brochure)

RUS415 Elementary Conversation
This intensive one-half credit course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday to Friday, for two hours over six weeks of supervised instruction. Structured and free conversational practice is based on a selection and reading of easy fiction and non-fictional texts. Students registering for this course must have RUSA400 as a prerequisite course.
Exclusion: RUS802
Corequisite: RUSA400
Session: Summer Day (see 1990 Summer Courses and Programmes Brochure)

RUS802 Intermediate Russian / J. S. Whalen
Expanded ready to increase ability in speaking, writing, and reading Russian.
A study of Russian morphology involving translation, composition, selected reading in the original and conversation. The course meets four hours a week in two intensive two-hour sessions plus additional language laboratory practice. The textbooks used are: P.A. Davis and D.Y. Opredelev, Making Progress in Russian, Novosibirsk, 1977; S. Khristianov and A. Shchernichenko, Russian in Everyday Practice; S. Khristianov, Russian as a sport. Progress. Selection of texts for reading chosen according to the particular interest of students. A final examination accounts for at least one-third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.
Exclusion: RUSA15
Corequisite: RUSA40 or completion of Grade 13 Russian
Session: Winter Day (see 1990 Summer Courses and Programmes Brochure)

RUS828 Intermediate Russian / D. Hazanoff
This intensive course is designed for credit or non-credit students who have already acquired a basic understanding of Russian. The class meets daily, Monday to Friday, for three hours over six weeks of supervised instruction, which will include the active use of grammar and work in translation. The textbook used is P.A. Davis and D.Y. Opredelev, Making Progress in Russian, Novosibirsk, 1977. Translation work is based on P. Henry, Modern Russian Prose Composition. Book 1, University of London Press, 1963. Evaluation is based on class work, one-weekly test and a final examination. Placement test may be administered to students registering for credit.
Corequisite: Grade 13 Russian or a comparable introductory course
Session: Summer Day (see 1990 Summer Courses and Programmes Brochure)

RUS830 Intermediate Conversation
This intensive one-half credit course is designed for credit or non-credit students who have already acquired a basic understanding of Russian. The class meets daily, Monday to Friday, for two hours over six weeks of supervised instruction. Although it can be taken separately, the extensive practice in spoken Russian, which is based on free and structured discussions of a variety of contemporary issues and materials, is intended to complement work done in RUS802.
Session: Summer Day (see 1990 Summer Courses and Programmes Brochure)

RUS881 The Nineteenth Century Russian Novel / C. Ponomaroff
Two hours per week lectures and discussion. Evaluation based on two major papers, class participation and final examination.
Exclusion: HUM810
Session: Winter Day (see 1990 Summer Courses and Programmes Brochure)

SOCI 100A Russian Undergraduate Literature from the 1920's to the Present / J. C. Farnsworth
Course offered in translation. A study of the characteristics of Russian novels and short stories not published in the Soviet Union, as well as of other works published in heavily censored editions. Discussion of the reasons why this literature is unacceptable to the communist state. Focus will also be on the divergent movement of the sixties and its legal and political implications. Authors dealt with are S. Yamas, B. Palatnik, F. Tsera, S. Sobolevskaya, and others. Films, tapes and records will be used.
Two-hour seminars per week. Evaluation is based on one major essay and final examination.
Session: Winter Day (see 1990 Summer Courses and Programmes Brochure)

SOCI 210 Supervised Reading I Staff
Some supervised reading courses are designed for individual or very small groups of students who would like to pursue specific projects in Russian language and literature. Classes usually meet every other week for a two-hour session and students engaged in a literary project are expected to produce a paper in their area of study.
Session: RUSA82 or Winter Evening (see 1990 Summer Courses and Programmes Brochure)

SOCI 211Y The Fiction of Leo Tolstoy
Session: 1990-91
SOCI 22Y The Twentieth Century Russian Novel
Session: 1990-91
SOCI 330F The Russian Symbolist Novel
Session: 1990-91
SOCI 336Y Post-1945 Soviet Russian Literature
Session: 1990-91

SOCI 410Y Twentieth Century Russian Poetry
Corequisite: RUSA82

SOCL 100A
Sociology is the scientific study of interaction among people, the social relations which they establish, the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.
Students must wish to take Sociology courses as part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major.
The introductory course, SOC100A, is intended to familiarize students with the special theories, methods and questions of sociology as a part of liberal education. In addition, the 100A course provides a general background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.
Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide formal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

SOC 100A
Sociology is the scientific study of interaction among people, the social relations which they establish, the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.
Students must wish to take Sociology courses as part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major.
The introductory course, SOC100A, is intended to familiarize students with the special theories, methods and questions of sociology as a part of liberal education. In addition, the 100A course provides a general background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.
Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide formal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

SOC 200A
Sociology is the scientific study of interaction among people, the social relations which they establish, the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.
Students must wish to take Sociology courses as part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major.
The introductory course, SOC100A, is intended to familiarize students with the special theories, methods and questions of sociology as a part of liberal education. In addition, the 100A course provides a general background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.
Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide formal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

SOC 300A
Sociology is the scientific study of interaction among people, the social relations which they establish, the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.
Students must wish to take Sociology courses as part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major.
The introductory course, SOC100A, is intended to familiarize students with the special theories, methods and questions of sociology as a part of liberal education. In addition, the 100A course provides a general background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.
Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide formal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

SOC 400A
Sociology is the scientific study of interaction among people, the social relations which they establish, the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.
Students must wish to take Sociology courses as part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or Major.
The introductory course, SOC100A, is intended to familiarize students with the special theories, methods and questions of sociology as a part of liberal education. In addition, the 100A course provides a general background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.
Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide formal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.
Specialist Programme in Sociology

Supervisor: S. Unger

The Programme requires completion of eleven and one-half full-course equivalents as described below. No more than nine full-course equivalents in Sociology may be included in the four-year degree.

1. SOCABY Introduction to Sociology
2. SOCABY1 Methods of Research
3. SOCABY1FS Social Statistics
4. SOCABY1 History of Social Thought
5. SOCABY1 Contemporary Social Thought
6. One full-course equivalent in a macrostructural field at the B-level. Any one of SOCADY, SOCADY1, SOCADY1, SOCADY1, SOCADY1, SOCADY1, SOCADY1, SOCADY1 or SOCADY1.
7. One full-course equivalent in a microstructural field at the B-level. Any one of SOCADY1, SOCADY1 or SOCADY1.
8. Two full-course equivalents from the C-level offerings: SOCADY1, SOCADY1, SOCADY1, SOCADY1 or SOCADY1.
9. One full-course equivalent from the C-level offerings: SOCADY1, SOCADY1, SOCADY1 or SOCADY1.
10. Two full-course equivalents from disciplines other than Sociology to be agreed upon in consultation with the Supervisor.

Major Programme in Sociology

Supervisor: S. Unger

The Programme requires completion of six full-course equivalents in Sociology including:

1. SOCABY Introduction to Sociology
2. One of the macrostructural courses at the B-level: B74Y, B67Y, B67Y, B67Y, B67Y, B67Y, B67Y, B67Y, B67Y or B67Y.
3. One of the microstructural courses at the B-level: BOY1, BOY1, BOY1 or BOY1.
4. One full-course equivalent at the C-level in Sociology
5. Two other B- or C-level full-course equivalents following the usual prerequisite rules applying to the chosen course. (i.e. C-level macrostructure follows from B-level microstructure).

SOCABY Introduction to Sociology / J.L. James, S. Unger, D. Goffe

An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions and social change.

Session: Winter Day, Winter Evening, Summer Day

SOCABY1 Methods in Social Research / N. Howell

The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports. Several studies will be examined in detail and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses.

Prerequisite: SOCABY1

Session: Winter Day

SOCABY2 Structure of Interpersonal Relations / S. Unger

The course will focus on patterns of interaction and influence in interpersonal relations. It begins with consideration of the problem of social order i.e., how do we constrain individual desires and induce people to act morally. We will also examine the problem of the "absurd", using Camus' Outsider as a case study. This is followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "altering" their behavior, with examples drawn from research on mutual influence and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

SOCABY3 History of Social Thought / M. Hammond

This course will study the development of sociology in the works of sociologists whose ideas have historical interest and contemporary relevance. It begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the works of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day, Summer Day

SOCABY4 Political Sociology

Specific topics include a review of social and political theories; major political ideologies; political development and emergence of modern nation-state; political action (political parties, revolutions and wars of independence). The course will examine a number of contemporary issues such as the question of national unity, labour and politics, wage and price control, immigration law etc.

Session: Winter Day

SOCABY5 Urban Sociology / J.L. James

Specific topics include a review of theories of urban genesis and urban form, interrelationship of population, industrialization and modernization, issues in urban living (housing, transportation, urban renewal, poverty, nonemployment etc.), urban social networks (civic and cultural homogeneity, neighborhood, community and other voluntary associations).

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day, Winter Evening

SOCABY6 Statistics / S. Unger

Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. The course will consider customary statistics including the summarizing of data, the logic of statistical decision-making and a working knowledge of elementary algebra. A working knowledge of elementary algebra is required. However, a lecturer will undertake brief reviews of mathematics as the need arises. This course is intended to complement SOCABY.

Session: PSYB1, ECOB1

Prerequisites: One full-course equivalent in Sociology

Session: Winter Day

SOCABY7 Sociology of the Family as a Group / S. Unger

The sociological study of the family in contemporary Western society. This course will focus on the family as a small group, emphasizing the family life cycle, member roles, interaction, patterns and exceptional problems in the family relationship.

Session: SOCABY1, SOCABY1, SOCABY1

Session: Winter Day

SOCABY8 Sociology of the Family as an Institution / S. Unger

This course will examine the family in its context, institutional and historical setting, emphasizing the various social factors which will affect family life and its changing nature.

Session: SOCABY1, SOCABY1

Session: Winter Day
SOC380Y Social Class and Social Stratification 1 J.L. deLamare
Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems; social classes and associated behaviour; social mobility; and class conflict.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day

SOC383Y Canadian Society 1 J.L. deLamare
An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of energy resources, the future of Quebec and the question of a distinctive national identity.
Prerequisite: One course in Sociology
Session: Winter Day

SOC384Y Comparative Social Structure 1 J.L. deLamare
An examination of the institutional structure in different societies in order to develop a better understanding of the effects of social variables on human behaviour.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Evening

SOC385Y Sociology of Mass Media and Communications 1 J. Hamming
The study of the social organization of the mass media - radio, TV, newspapers, magazines and trade publications - and of the effects of the contents of mass communications on the general public.
Exclusion: SOC464
Prerequisite: SOC401
Session: Winter Day

SOC386Y Social Change 1 J.L. deLamare
A sociocultural analysis of forms of change, such as industrialization, modernization, urbanization and their consequences for the structure and function of contemporary society.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day

SOC3875 Medical Sociology 1 M. Hammond
Designed to meet the needs of Natural Science students as well as Social Sciences students, this course focuses on social factors in sickness and health, on the organization of health care services, and on alternatives to conventional medicine.
Session: Winter Day

SOC388Y Sociology of Deviant Behaviour 1 R.L. Beals
Topics covered will include the analysis of the social processes by which behavior is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as crimes against persons, "weirdness", mental illness, sexual deviance and alcoholism.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day, Summer Day

SOC389Y Sociology of Health 1 M. Hammond
This course will investigate the linkages between sociology and the sciences of biological evolution. It begins with an introduction to the basic principles of evolution in the natural sciences and a review of attempts by late eighteenth and early nineteenth century theorists to link sociology to these sciences. The major part of the course will focus on the most recent attempts to apply an evolutionary perspective to the study of man. The course will consider such issues as the role of studies in non-human social organization as models for man's social activities; the potential addition of sociological ideas to research in the natural sciences and the possibility of using man's evolutionary context of origin as a basis to test current theory in sociology and to construct a new theory.
Session: Winter Day

SOC390Y Ethnic and Race Relations 1 J.W. Johns
The course is concerned with the situation in which people in society meet and mingle, the patterns of relations and behaviour that develop through frequent interaction, and the changes in perceptions, values, and attitudes that take place following such regular and prototypical interaction. Specific topics to be discussed may include: the problem of stereotyping and prejudice; social mobility and "civil rights" events as processes of change of ethnic status; maintenance of ethnic identity and conflict and continuity between ethnic generations; and societal integration especially as it bears upon the question of Canadian bilingualism and multiculturalism.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day

SOC392Y Population 1 N. Howell
Population problems and processes in the modern world, stressing recent trends and their economic and social implications. Specific topics to be discussed may include: the social effects of baby boomers and their aftermath in jobs and school environments; the changing age structure of populations and the anticipated effects of a larger number of older Canadians in the next several decades; the controversial question of zero population growth and the relationship of world population to world food supply; the social implications of the single life and childless couples; the social impact of migrations of populations, particularly immigration into Canada. Students will study appropriate demographic methods for understanding such problems in both historical and comparative perspectives.
Prerequisite: One full-course equivalent in Sociology or JCS307
Session: Winter Day

SOC394Y Sociology of Education: Primary and Secondary Levels 1 J.A. Lee
The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. The formal organization of school systems.
Exclusion: SOC408
Prerequisite: SOC401
Session: Winter Day, Summer Day

SOC395Y Sociology of Education: University and Adult Levels 1 R.O. Tolle
Allocation and training of upper-level students, and relationship of higher education to the occupational system. Problems of education or retraining of older adults.
Exclusion: SOC408
Prerequisite: SOC401
Session: Winter Day

SOC397Y Organizational Behaviour 1 J. Hamming
Examine social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Empirical studies used in the first term will focus on single organizations. Those used in the second term will focus on industries and other large interorganizational systems.
Exclusions: (COM375)(SOC397)
Prerequisite: One full-course equivalent in Sociology, Commerce, Economics, or Political Science
Session: Winter Day, Winter Evening

SOC398F Collective Behaviour 1 R.O. Tolle
The study of "unorganized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day

SOC398Y Contemporary Social Theory 1 J.W. Johns
Basic sociological concepts and underlying sociological thinking will be considered as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally required, a previous course in social and/or political theory (e.g. SOC380Y) would be a distinct asset.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day
SOC10F Applied Sociology
Use of sociological theory and methodology to clarify policy issues in organizations. Evaluation of agency services, assessment of community need or demand for services, analysis of institutional constrictions.
Prerequisites: Two courses in sociology
Session: Winter Day

SOC10S Sociology of Occupations and Professions
Within the context of the relevant sociological theories of Durkheim, Weber and Marx, the relationship of people to their work and their occupation is studied through the examination of particular occupations in industry, bureaucracy and the professions. Career choice and patterns, questions of satisfaction and alienation, and future changes and trends are analysed with special reference to the Canadian labour force.
Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day

SOC20F Sex, Self and Society
J.A. Lee
A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements.
Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day

SOC21S Sociology of Law and Law Enforcement
Studies of existing legal systems, the process of creation of legislation, court interpretation of law, and the law enforcement institutions.
Prerequisites: SOC10B
Session: Winter Day

SOC22B Industrial Sociology
J.H. Horvath
Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.
Prerequisites: SOC10B
Session: Winter Day

SOC22F Sociology of Art and Culture
J.A. Lee and K.J. Einarsson
A seminar on the organization, production and appreciation of art and culture in various societies. Lectures and discussions will be oriented to literature, film and painting, but students may choose any form of "high culture" for special research.
Exclusions: SOC20W and SOC21C
Prerequisites: Two full-course equivalents in Sociology
Session: Winter Day

SOC22R Sociology of Religion
R.O. O'Grady
A sociological analysis of religion as a social institution. Consideration of the problem of a definition of the phenomenon; analysis of major theoretical and empirical contributions to the field; and investigation of the forms of religion in historical and contemporary contexts.
Exclusions: SOC21B
Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day

SOC22V Sociology of Crime and Delinquency
An advanced course in behaviour which are labelled as criminal and delinquent.
Exclusions: SOC22V and SOC22T
Prerequisites: SOC22B
Session: Winter Day

SOC23S Sociology of Urban Growth
N. Horsley
An in-depth examination of the conditions, patterns and consequences of urban growth and development. Major topics will include the emergence of new urban institutions (legal, political, economic) and the formation and operation of urban social networks.
Prerequisites: Two full-course equivalents in Sociology
Session: Winter Day

SOC23R Social Class in Canadian Society
Specialized study of social-class phenomena in contemporary Canadian Society, bringing to bear both current theory and research.
Prerequisites: Two full-course equivalents in Sociology
Session: Winter Day

SOC23S Statistical Analysis of Non-Traditional Family Forms
R.L. Jones
A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns in the 1970's. Included will be "blending", "living together", endogamy as a life style, non-monogamous forms, voluntary childlessness, communities and co-operatives, and "swinging". Special reference to structural and functional dimensions, role changes, special problems and community response.
Prerequisites: SOC20B and SOC20B
Session: Winter Day

SOC240F Supervised Independent Research / Staff
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Prerequisites: Completion of fifteen full-course equivalents including SOC201, SOC203 and SOC206. By permission of instructor only.
Session: Winter Day

SOC241F Supervised Independent Research / Staff
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Prerequisites: Completion of fifteen full-course equivalents including SOC203, SOC201 and SOC206. By permission of instructor only.
Session: Winter Day

SOC242F Advanced Seminar in Sociological Theory / Staff
Advanced Seminar in Sociological Theory. Special topic in contemporary sociological theory, designed as a final year course for students taking a Specialist Programme in Sociology.
Prerequisites: SOC205, SOC206 and SOC206
Session: Winter Day

SOC243F Advanced Seminar in Research Methods / Staff
Advanced Seminar in Research Methods. Special topic in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology. Prerequisites: SOC205, SOC206 and SOC206
Session: Winter Day

SOCIOLOGY COURSES NOT OFFERED IN 1980-81

SOC267Y Small Groups
Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course
SOC267Y Sociology of Science
SOC267Y Sociology of Revolution
Prerequisites: Two full-course equivalents in Sociology (SOC201 and SOC205 recommended)
SOC267Y Research on Small Groups
Prerequisites: SOC203 or SOC201 or SOC207 or PSY201 or permission of instructor
SOC267Y Social Movements
Prerequisites: Two full-course equivalents in Sociology, including a B-level course
SOC267Y Mathematical Methods in Sociology
Prerequisites: Permission of instructor
SOC267Y Sociology of Conflict
Prerequisites: Two full-course equivalents in Sociology, one of which must be a B-level course
SPANISH

Discipline Representative: J.1. Chico-Cobán

Students enrolling in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature. Students who are not intending to take a programme in Spanish are free to choose whichever courses they wish, provided that they have satisfied the relevant prerequisites. Students intending to enrol in the Major Programme in Spanish Language and Literature will find the requirements below.

Courses in Fine Arts, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may prove valuable to those students as adjuncts to their plan of study or as an enrichment of their total programme. Students intending to enroll in the Specialist Programme in Modern Languages or in the Specialist in Language and Literature should consult the listing in the Calendar.

It is important that students enrolled in Spanish, some of whom may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, confer with the relevant Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

Major Programmes in Spanish Language

Supervisor: J.1. Chico-Cobán

Seven full-course equivalents are required as follows:

- LING1ST: General Linguistics
- SPA10Y7: Introductory Spanish (Note: Students who have Grade 13 Spanish must complete one of the full-course prerequisites: SPA10Y7 or SPA15Y7 or SPA162S, or SPA162F)
- SPA162Y: Intermediate Language
- SPA15Y7: Advanced Language
- SPA162S: History of the Spanish Language I
- SPA162F: History of the Spanish Language II
- HUMB15Y: The Civilization of Spain
- SPA162Y: Topics in Latin American Culture and Literature
- SPA162FS: History of the Spanish Language II
- SPA162FS: Syntaxes and Translation

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Spanish. Equivalent courses from the discipline’s offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

212
Pre-Literary Examination of Texts / J. R. Barra

The basic elements of style with rapid reading and comprehension of texts of various periods. This is not a literature course, but one which provides training in the methodical analysis of literary texts from Spanish and Latin America. Its purpose is to develop the critical skills on which the understanding and enjoyment of literature depend. Two lecture/tutorial hours per week. A further tutorial hour to be arranged. Regular attendance and class participation are essential. Regular oral and written commentaries on assigned texts. Written term tests.

This course is a prerequisite for several Spanish literature courses, students are reminded that it should be taken in the same year as SPA801.

Corequisite: SPA801

Section: Winter Day

History of the Spanish Language I / J.I. Chaver-Dahan

The languages of Spain, from pre Roman times to the medieval period. The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin within the context of other Romance languages. A survey of the Pre-Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in its most Classical texts (epigraphs, glosses, etc.). The major segments of the course deal with the evolution of the sounds and form systems of Latin into Peninsular Romance, focusing on the growth of the Castilian dialect. Class participation and discussion are encouraged. Three hours per week in lecture/tutorial format. Evaluation is based on written tests and a research assignment.

Corequisite: SPA804

Section: Winter Day

Survey of Spanish Literature II / J. R. Barra

From the eighteenth century to the present. Reading, analysis, and discussion of major texts of Peninsular Spanish literature of the period: A continuation of SPA180Y.

Lectures on background material. Areas of study will include representative texts from eighteenth-century Neo-Classicism, nineteenth-century Romanticism, Post-Romanticism, Realism and Naturalism. The late nineteenth and the twentieth centuries will be studied according to the concept of literary generations. Three lecture/conversation hours weekly. Class participation is essential. Evaluation is based on regular oral and written assignments and one paper.

Corequisite: SPA801

Section: Winter Day

Golden Age Poetry / J.I. Chaver-Dahan

A study of the major poets of the Golden Age.

The course concentrates on the following main figures: Garcilaso de la Vega, Fernando de Herrera, Fray Luis de León, San Juan de la Cruz, Lope de Vega, Góngora, and Quevedo.

Three hours per week in tutorial format. Evaluation is based on class presentations, final examination, and term paper.

Corequisite: SPA801

Section: Winter Day

Spanish American Literature: The Short Story / P. Levin

The history of the Spanish novel. Examination of short stories by Spanish and European authors in order to attempt a definition of the short story; reading, analysis, and discussion of the various forms of the Spanish American short story. Two hours per week in lecture/tutorial format. Evaluation is based on written term and test paper.

Corequisite: SPA801

Section: Winter Day

The Novel of the Mexican Revolution / P. Levin

A study of the various types of novels written in Mexico from 1910 to the present time. An attempt will be made to analyze the Mexican Revolution, firstly as a political and social event, with reference to other contemporary revolutions, and secondly, as a literary movement. Exceptions from various literary works will be read in order to gain an understanding of the different approaches to the revolutionary novel. Two hours per week in lecture/tutorial format. Evaluation is based on written test and term paper.

Corequisite: SPA801

Section: Winter Day

Advanced Spanish / J.I. Chaver-Dahan

Intensive study of grammar and syntax; translation, composition, and oral practice. Detailed examination of the subfields of Spanish grammar through intensive practice in translation and into Spanish, composition, and conversation. Three hours per week in lecture/tutorial format. The final mark will be computed of: 40% for a final examination; 60% for compositions, translations, and conversation. Course required for Spanish Major, but open to all qualified students.

Exclusion: SPA820

Prerequisite: SPA801

Section: Winter Day

SPANISH COURSES NOT OFFERED in 1980-81

Phonetics

Corequisite: SPA801

Prerequisite: SPA802

The Nineteenth-Century Spanish Novel

Prerequisite: SPA801

Survey of Spanish Literature I

Prerequisite: SPA801

Stylistics and Translation

Prerequisite: SPA803

History of the Spanish Language II

Prerequisite: SPA812

Golden Age Drama

Exclusion: SPA823

Prerequisite: SPA801 for those majoring in Spanish. None for others.

Corequisite: SPA803 for those majoring in Spanish. None for others.

Golden Age Prose

Prerequisite: SPA803

The Poetry and Theatre of García Lorca

Prerequisite: SPA803

Spanish American Poetry 1890-1920

Exclusion: HUMB185

Prerequisite: SPA803

Medieval Literature: Prose

Exclusion: SPA822

Prerequisite: SPA803

Medieval Poetry

Prerequisite: SPA803 or SPA801

214

215
STATISTICS

Staff member responsible for curriculum: M. Evans

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics, physics and many others.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of sophisticated experiments to determine the relative efficacies of different vaccines.

STAB52F and STAB57S serve as an introduction to the discipline. These courses are part of the Mathematics Specialist and Major Programmes. STAC52F and STAC57S build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

STAB52F Probability and Statistics I / M. Evans
STAB57S Probability and Statistics II / M. Evans
STAC52F Experimental Design / M. Evans
STAC57S Regression Analysis / M. Evans

For further information see under Mathematics.

COURSES NOT OFFERED IN 1981-82
STAC52F Experimental Design
Prerequisite: STAB57

Key
Explanation of Staff, Y, A, B, F, S and H

'Y' A course taught throughout the session worth one full course credit.
'A' A course taught in the first term and worth one full course credit.
'B' A course taught in the second term and worth one full course credit.
'F' A course taught in the first term and worth one-half course credit.
'S' A course taught in the second term and worth one-half course credit.
'H' A course taught throughout the session and worth one-half course credit.

Explanation of M, T, W, R, F and T.B.A.
M, T, W, R, F - the days of the week with R denoting Thursday.
T.B.A. - denotes that the student is responsible for arranging time and/or rooms with the instructor for that course.

Explanation of Lectures
L - Lectures
P - practical work in laboratories or studios (* denotes every other week)
T - tutorials
E - evening
Explanation of Lecture Section Numbers
01 etc. day sections
30 etc. evening sections

Try-out of Sections
Some lecture, practical and tutorial sections must be taken as a "package". This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g. P001 and T002 must be taken with L101; and T001 or T002 may be taken with L101.

The reason for "tying" sections is that the subject matter may differ from section to section. Many courses are "cycled" so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be the same as the corresponding section number.

Rooms
Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.

Summer Session Courses, 1980

Monday 12th May:
Classes for 'F' 'H' 'A' and 'Y' courses begin

Thursday 26th June:
Classes for 'A' and 'F' courses end

Wednesday 2nd July:
Classes for 'B' and 'S' courses begin

Friday 15th August:
Classes for 'Y' 'R' 'W' and 'S' courses end

Key: MTWRF: days of the week with R as Thursday

Course No. Course Title Day and Time

ANT301Y Introduction to Anthropology T&R5-10E
ANT320A Field Methods in Historical Archaeology TBA
ANT320B Research on the Social Behaviour of Non-Human Primates TBA
CHMC45Y Library Thesis TBA
CHMC47Y Introduction to Research TBA
CHMC47T Library Thesis TBA
COMA4Y Financial Accounting M&W7-10E
COMM4Y Management Accounting T&R7-10E
CSCS44H Computer Programming M7-9E

Day and Time

ECO101Y Introduction to Economics W7-10E; T1000
ECO101Y Price Theory T&R1-4
ECO115Y Microeconomic Theory and Policy T&R10-12
ENG213Y English Literature: Practical Criticism and Interpretation M&W7-10E
ENG215Y English Poetry T&R7-10E

Course No. Course Title Day and Time

GOD100Y The Nature of Human Geography T&R7-10E
GOD30H General Geomorphology MTWRF9-11

GOD331C Theoretical Approach to Political Geography MTWRF9-11

HIS201Y History of the United States T&R7-10E
HIS202Y Russia from the Thirteenth to the Present M&W7-10E

MAT101Y Calculus T&R7-10E

PHIL108S Existence & Reality T&R7-10E
PHIL118F Theories of Mind T&R7-10E

PUL210Y Political Thought from Plato to Locke M&W7-10E
PUL215T U. S. Government & Politics MTWRF2-4

PSY210Y Introduction to Psychology M&W7-10E

PSEV32F Developmental Psychology T&R5-7

PSY301Y Brain Mechanisms and Behaviour: I TBA Tutorials T&R7-7

SOCI41Y Introduction to Sociology MTWRF9-11

SCOR1Y History of Social Thought M&W7-10E
SCOR31A Sociology of Deviant Behaviour MTWRF1-1
SCOR31S Sociology of Education: Primary and Secondary Levels MTWRF2-4

Summer Programmes
For further information about the following courses please refer to the 1980 Summer Courses and Programmes brochure.

DRAB13B The Victorian Theatre
FAR117B Introduction to Painting
FAR217A Intermediate Painting 1
FAR218A Introduction to Etching
FAR219B Intermediate Etching
FRE406A Introductory French
FRE408A Elementary Conversation 1
FRE408B Elementary French
FRE417S Elementary Conversation 2
FRE408D Language Practice 1
FRE409D Intermediate Conversation 1
FRE409S Language Practice 2
FRE417S Intermediate Conversation 2
FRE409G Language Practice 3
FRE418B Advanced French
HUMMOY1Y Supervised Language Study 1
HUMMOY2Y Supervised Language Study 2
RUSA110Y Introductory Russian
RUS111S Elementary Conversation
RUS201B Intermediate Russian
RUS202S Intermediate Conversation
SPA401Y Introductory Spanish

English Writing Skills Courses
EW30010 Basic Writing Skills
EW3001H The University Essay

Early Music Workshop

Stanford Summer Festival Seminars

Winter Session Evening Courses

Courses may be given in addition to the lecture times given below. They will normally be given on the nights except as noted below.

Course No. Course Title Day & Time

ANT40H Introduction to Anthropology T5-10
ANT40P The Americas: An Anthropological Perspective T6 7-10
ANT415Y Introduction to Physical Anthropology R5-10
ANT416I The Cultures of Modern Canada W7-10
ANT419Y The Anthropology of Honour T7-9

BIOC155 Marine Biology W7-9

COMA31Y Financial Accounting T5-10
COMB10Y Management Accounting R5-10
COCL21Y Income Tax W7-10
REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE

To Be Completed by the Student

NAME: ___________________________ SESSION: ___________________________

STUDENT NUMBER: ___________________________ COURSE: ___________________________

PROPOSED AREA OF STUDY: ______________________________________________________

PREVIOUS COURSES IN DISCIPLINE: _____________________________________________

SIGNED: ___________________________ DATE: ___________________________

To Be Completed by the Instructor

I approve ___________________________’s registration in the course ___________________________, and agree to act as the supervisor of studies.

METHOD OF EVALUATION:* ______________________________________________________

SIGNED: ___________________________ DATE: ___________________________

* The Grading Practices Policy stipulates that students must be informed of the method of evaluation by the last date to add a course.

REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE

To Be Completed by the Student

NAME: ___________________________ SESSION: ___________________________

STUDENT NUMBER: ___________________________ COURSE: ___________________________

PROPOSED AREA OF STUDY: ______________________________________________________

PREVIOUS COURSES IN DISCIPLINE: _____________________________________________

SIGNED: ___________________________ DATE: ___________________________

To Be Completed by the Instructor

I approve ___________________________’s registration in the course ___________________________, and agree to act as the supervisor of studies.

METHOD OF EVALUATION:* ______________________________________________________

SIGNED: ___________________________ DATE: ___________________________

* The Grading Practices Policy stipulates that students must be informed of the method of evaluation by the last date to add a course.