IMPORTANT NOTES

a) Course Selection
Students are urged to study carefully pages 33 and 32 before reading the course descriptions. These pages contain important information concerning the designators and numbering of courses, the meanings of prerequisite and co-requisite requirements and of exclusions; and information about supervised reading, supervised research and independent study courses.

A number of courses are jointly offered by different disciplines. These courses are described on page 10.

Students are responsible for ensuring that they have the pre- and co-requisites for all courses selected. Failure to do so may result in withdrawal from the course.

When the prerequisite for a course is permission of instructor, students must include that course on their Registration Form without an authorizing signature. However, students are urged to consult with the instructor and obtain his permission before submitting their Registration Forms. In such courses, the instructor will receive in the first week of classes a list of all registrants, and those students without the instructor's permission will be withdrawn.

Students selecting supervised reading or research courses must obtain the permission of the instructor prior to registering in the course. Forms, to verify the instructor's approval, are included in the back of this Calendar, and must be submitted with the student's Registration Form. Instructors may not be available during the summer, students who wish to enroll in supervised reading or research courses, or in courses where the prerequisite is permission of instructor, are urged to obtain the necessary permission before they leave campus in April/May.

Students who wish to take courses offered by the Faculty of Arts and Science on the St. George or Etobicoke campuses should consult page 17 of this Calendar.

b) Academic Regulations and Degree Requirements
Students are responsible for making themselves familiar with the contents of this Calendar, and particularly with the information contained in the sections of the Calendar dealing with the academic Calendar and the Academic Regulations and Degree Requirements.

c) Curriculum Changes
The courses in this Calendar and their descriptions are accurate as 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.

d) Enrollment 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 and other resources available.

e) Registration
Students will receive from the Registrar's Office, registration information and the Schedule of Fees as follows:
- Retaking students: With their Statement of Results
- New students: With their Letters of Admission
- Re-enrolling students: With a letter confirming their re-enrollment

Students are responsible for notifying the Registrar's Office of any changes in their academic programme, name or address.

ACADEMIC CALENDAR

Summer Session 1979

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 April</td>
<td>Last day for new students to apply for admission to the University for the Summer Session wishing to enroll in 'Y', 'A', 'F' or 'H' courses. Applications will be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration.</td>
</tr>
<tr>
<td>15 May</td>
<td>Last day for new students to apply for admission to the University for the 1979 Summer Session wishing to enroll in 'B' or 'S' courses.</td>
</tr>
<tr>
<td>Monday 14 May</td>
<td>Classes for 'Y', 'A', 'F' and 'H' courses begin.</td>
</tr>
<tr>
<td>Friday 18 May</td>
<td>Last day to add 'Y', 'F' or 'H' courses.</td>
</tr>
<tr>
<td>Friday 21 May</td>
<td>Last day to withdraw from 'A' and 'F' courses.</td>
</tr>
<tr>
<td>Monday 22 June</td>
<td>Last day of classes in 'A' and 'F' courses on St. George and Etobicoke Campuses.</td>
</tr>
<tr>
<td>Monday 25 June</td>
<td>Examination week in 'A' and 'F' courses on St. George and Etobicoke Campuses.</td>
</tr>
<tr>
<td>Thursday 28 June</td>
<td>Last day of classes in 'A' and 'F' courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
<tr>
<td>Saturday 28 June</td>
<td>Last day to register for 'B' and 'S' courses.</td>
</tr>
<tr>
<td>Monday 2 July</td>
<td>Dominion Day holiday - University closed.</td>
</tr>
<tr>
<td>Tuesday 3 July</td>
<td>Classes for 'B' and 'S' courses begin.</td>
</tr>
<tr>
<td>Friday 6 July</td>
<td>Last day to add 'B' or 'S' courses.</td>
</tr>
<tr>
<td>Friday 13 August</td>
<td>Last day to withdraw from 'Y' or 'H' courses.</td>
</tr>
<tr>
<td>Monday 15 August</td>
<td>Last day to withdraw from 'B' or 'S' courses.</td>
</tr>
<tr>
<td>Monday 15 August</td>
<td>Last day of classes for 'Y', 'B', 'H' and 'S' courses on St. George and Etobicoke campus.</td>
</tr>
<tr>
<td>Tuesday 14 August</td>
<td>Examination week for 'Y', 'B', 'H' and 'S' courses on St. George and Etobicoke Campus.</td>
</tr>
<tr>
<td>Friday 17 August</td>
<td>Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
</tbody>
</table>
ADMINISTRATION AND FACULTY OF SCARBOROUGH COLLEGE

Principal
J.R. Warden, M.A., Ph.D. (Cambridge), Associate Professor

Assistant to the Principal
J.E. Folsom, B.A., Ph.D.

Associate Dean
C.A. Ford, B.A., M.A., Ph.D.

Dean of Students in Residence
D.M. Warden, M.A., Ph.D.

Chairman, Division of Humanities
R.W. Gough, M.A., Ph.D.

Associate Chairman
J.N. Grant, M.A., Ph.D.

Administrative Assistant
A.J. Vickers

Chairman, Division of Life Science
G.R. Williams, B.Sc., Ph.D., D.Sc.

Chairman, Division of Physical Sciences
J.E. Dave, B.Sc., M.A., Ph.D.

Associate Chairman
J.S. Halpenny, M.Sc., Ph.D.

Administrative Assistant
J. Norman

Chairman, Division of Social Science
R.S. Blake, M.A., Ph.D.

Associate Chairman
R. O'Toole, B.A., M.A., Ph.D.

Administrative Assistant
M. Kuntzky

Registrar
G. E. Le Corre

Assistant Registrar
N. H. Daphnis, B.A.

Admissions/Registrar
L. Pearson

Manager of Business Services
J.M. Herd, B.A.

Administrative Assistant, Personnel
J.P. Brown

Administrative Assistant, Accounts
J.P. Hope

Administrative Assistant, Residences
S. Macdonald

Library

Co-ordinator, Collection Dept.

Co-ordinator, Technical Services
M. Wiedrich, M.L.S.

Head, Reference Service
P. Yamauro, B.A., M.L.S. in I.S.

Reference Librarian
R. Everett, B.A., M.L.S.

Reference Librarian
L. Be, B.A., M.L.S.

Reference Librarian
M. Chaworth-Evans, B.A., M.L.S.

Head, Scarborough-Enfield Technical Services
A. Greecoski, B.A., B.L.S.

Director, Summer Language Institute
W.J. Kirkness, M.A., Ph.D.

Director of Writing Laboratory
B. Cohen, M.A.

Assistant Director of Athletics
T. Pollud, B.P.E., B.A., M.S.

Director of Athletics
J. Lauterre, B.Sc., B.Ed.

Assistant Director of Athletics
M.A. Pklasberio, B.P.E.

Physician
A.M. Brooks, M.D.

Psychologist
G.A. FitzGerald

Manager of Physical Services
R.L. Wright

Division of Humanities

Clayes
A. Boddington, B.A. (Oxon), Associate Professor
J.R. Cebert, M.A., Ph.D. (Toronto), Associate Professor
J.N. Grant, M.A. (Edinburgh), Ph.D. (St. Andrews), Associate Professor
M.E. Irwin, M.A., Ph.D. (Toronto), Associate Professor
B. McDonald, B.A. (Alberta), Ph.D. (N. Carolina), Associate Professor
J.R. Warden, M.A. (Cambridge), Associate Professor

Drama
M.Q. Schonberg, M.A., Ph.D. (Toronto), Assistant Professor
L.L. Brown, M.A., Ph.D. (Toronto), Lecturer

Winter Session 1979-80

1 June
3 June
10 June
30 June

Last day for current students to request admission to another College.
Last day for new students to apply for admission to the University for the Winter Session 1979-80 wishing to enroll in "Y", "A", "F" and "H" courses.

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

Monday 3 September
Labour Day - University closed.

Monday 10 September
Classes for the 1979-80 Academic Year begin. "Y", "A", "F" and "H" courses begin.

Friday 21 September
Last day to enrol in "Y", "A", "F", or "H" courses.

Friday 28 September
Last day of receipt of applications for Government Assistance Programmes.

Monday 8 October
Thanksgiving Day - University closed.

Friday 2 November
Last day to withdraw from first term "F" or "A" courses.

Friday 9 November
Last day of receipt of applications for University of Toronto In Course Awards.

Friday 7 December
Last day of classes in the first term.

Monday 10 December
Last day for submission of term assignments in "F" and "A" courses.

Friday 21 December
Term test and final examination period.

Friday 7 January
Classes for the second term begin. Second term "B" and "S" courses begin. Last day to register for "B" and "S" courses.

Friday 14 January
Last day to enrol in "B" or "S" courses.

Friday 21 January
Last day to withdraw from "B" and "H" courses.

Monday 16 February
Reading Week - all classes cancelled.

Friday 26 February
Last day to withdraw from "S" or "B" courses.

Friday 4 April
Good Friday - University closed.

Friday 11 April
Last day of classes.

Monday 23 April
Last day for submission of term assignments for "Y", "H", "S", or "B" courses.

Monday 21 April
Final examinations begin.

Friday 9 May
Annual examinations end.

Monday 16 June
University Convocation begins.
ACADEMIC REGULATIONS AND DEGREE REQUIREMENTS

Definitions

Students should employ the following definitions in reading the degree requirements and academic regulations below.

(1) A Course

The word "course" is used in two ways. In reference to a single course (such as "standing in a course" or "last day to withdraw from a course") the word may be taken to refer to a full course or half course. In reference to a given number of courses (such as the requirement of passing 15 courses for a fifteen course degree), the word refers to a number of full courses or the equivalent number in full and half courses.

(2) To Pass a Course

To pass a course means to obtain a grade of "D" or better in that course.

Selection of Courses

(1) Each student may plan his own Programme, selecting from amongst all courses available, subject to the following regulations.

(a) The degree requirements and other regulations set out below must be satisfied.

(b) All prerequisite and concomitant requirements must be met.

(c) No student may enrol for credit in a course which is preparatory (elementary) to a course which the student has already passed.

(d) Students may enrol for credit in no more than seven A-level courses.

(2) Each student may progress towards his degree at a rate of his 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 enrol in no more than five courses in the Winter Session or one and one-half courses in the Summer Session.

(3) In selecting their courses, students are advised (but not required):

(a) To include courses from at least two divisions (Humanities, Science, Social Sciences) among their first ten courses.

(b) To include some advanced work based on earlier study, by including at least two C-level courses within a twenty course degree programme;

(c) To consider taking, where appropriate, at least half of independent study or supervised reading in an area related to their other studies.

(4) In selecting their courses, students are advised not at this time required to complete the requirements of the major programmes and related studies programmes described in this Calendar. Students who do not wish to complete such programmes are urged to consult the general advice given with the course descriptions for each discipline and to seek specific advice with respect to course selection from the supervisor of studies or other faculty members in the appropriate discipline.

Major Programmes and Related Studies Programmes

Students may, if they wish, enrol in one of the major programmes or related studies programmes described in this Calendar. Completion of a programme is recorded on a student's transcript.

(1) Major Programmes

Students may complete one of the major programmes described in this Calendar at the beginning of the course descriptions for various disciplines (e.g. the Major Programmes in Anthropology, Biology, Commerce and Economics, Modern Languages and Literatures).

(a) A major programme may be completed only as part of a twenty course degree programme.

(b) As completion of a twenty course degree programme is a requirement of each major programme, certification of completion of a major programme is not available to students who have completed only a fifteen course degree programme.
(2) Related Studies Programmes
The following related studies programmes are available: Canadian Studies, Development Studies, History of Ideas, Humanities, Myth and Religion, and Quaternary Studies. A related studies programme may be completed as part of either a fifteen course or a twenty course degree programme.

(3) Registration in Programmes
A student who wishes to take a major programme or a related studies programme should complete the following registration procedures.
(a) Enroll in the programme with the Supervisor of Studies at the beginning of the second year of full-time study (or at the beginning of the session in which a part-time student takes his fifth course).
(b) Re-enroll at the beginning of each subsequent Winter Session.
(c) In the session in which the student expects to graduate, inform the Supervisor of Studies and the Registrar that he wishes to have completion of the programme recorded on his transcript. (The student may effect notification by means of a section of the form on which the student requests conferral of his degree at the forthcoming convocation. This form is distributed to all students early in each session.)

(4) Requirement for Completion of Programmes for Students Entering Scarborough College in the 1980 Summer Session and Thereafter
(a) All students entering Scarborough College in the 1980 Summer Session and thereafter will be required either:
(i) to complete a minor programme or a College programme, as a requirement of the fifteen course degree;
or
(ii) to complete, as a requirement of the twenty course degree:
- a major programme, or
- two minor programmes, or
- a minor programme and a College programme
(b) The following descriptions are intended to guide students, admitted to the College for the 1980 Summer Session and thereafter, in understanding the new requirements for completion of programmes:
(i) A Major Programme: Completion of a major programme will provide depth and intensity of study within a limited area - a discipline, a group of disciplines or a particular theme or area of study. At least nine specific courses will be prescribed in a major programme.
(ii) A Minor Programme: Completion of a minor programme will provide concentration in an area of study - a discipline, a group of disciplines or a particular theme or area of study. Six to eight courses will be prescribed.
(iii) A College Programme: A College programme will provide an organizing framework for a broad programme of study for students desiring wide-ranging but coherent study in a major area of the Curriculum.
(c) Students will be permitted to propose for themselves individual programmes other than those shown in the Scarborough College Calendar. Such proposals should be made at the end of the term following completion of the student’s fourth course.
(d) The following courses in Geography: GGRB03, GGRB05, GGRB07, GGRB09, GGRB10, GGRB11, GGRB13, GGRB14, GGRB15, GGRC13, GGRC14, GGRC17. In addition, the following courses may be used to fulfill the Bachelor of Science requirements for students majoring in reading in appropriate scientific areas of geography: GGRB09, GGRB15, GGRB16, GGRB17. A student may decide to do no geographical courses.
(e) The following joint courses: HJC, JMC, JPA, JPM courses and JLBB55 (as given in 1976/77 only). Psychology students should note that JPLB35 is not normally credited towards the science requirement for the B.Sc. degree.

(4) Standing in a Course
(1) Students are assigned a grade in each course, as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point</th>
<th>Percentage</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>High</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>80 - 84</td>
<td>Good</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77 - 79</td>
<td>Adequate</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>76 - 78</td>
<td>Adequate</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>75 - 72</td>
<td>Marginal</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>67 - 69</td>
<td>Marginal</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>66 - 68</td>
<td>Marginal</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>60 - 64</td>
<td>Marginal</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>55 - 53</td>
<td>Marginal</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td>50 - 52</td>
<td>Marginal</td>
</tr>
<tr>
<td>CR</td>
<td>none</td>
<td>credit/no-credit (pass—fail) course</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.3</td>
<td>33 - 49</td>
<td>Inadequate</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>0 - 34</td>
<td>Wholly Inadequate</td>
</tr>
<tr>
<td>NCR</td>
<td>0.0</td>
<td>no credit in a credit/no-credit (pass—fail) course</td>
<td></td>
</tr>
</tbody>
</table>
(3) The Subcommittee on Standing may, on petition, assign the following grades, which have no grade point value:

- AEG, which stands for "Agreed Standing" - awarded on the basis of term work.
- SDIF, which stands for "Standing Deferred" - in cases where an extension of time to complete a course is granted based on the basis of medical or similar evidence. The grade of SDIF must be replaced by a regular grade assigned by the instructor before the expiry of a specific extension period.

Determining Standing in a Course: Grading Practices Policy

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

(2) After the methods of evaluation have been made known, the instructor may not change their relative weight without the consent of at least two-thirds of the students registered in the course.

(3) The final grade in a course will normally be based on more than one examination element, i.e., on more than one examination, essay, or other similar piece of work. Normally, no one examination element (examination, essay, etc.) will be worth more than two-thirds of the final mark. Exemptions from this requirement are advanced seminar courses or supervised research or supervised reading courses; in such courses, more than two-thirds of the final mark may be based on a thesis, a research essay or project, or a comprehensive examination.

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

- In A-level courses, at least one-third of the final mark will be based upon a formal examination (or in the Christmas examination period in December and/or in the final examination period in April and May for the comparable examination periods in the Summer Session).
- In B-level and C-level courses, at least one-third of the final mark will be based upon supervised examinations (or in the Christmas examination period, exams, etc.)
- In seminars, the student's academic standing will be determined by the instructor's own judgment of the student's overall work (in the course).

(c) The following courses may be exempted from the requirement for examinations, upon request of the instructor and approval of the appropriate Divisional Chairman: accelerated senior seminars, seminar research courses and advanced seminar courses; supervised reading or research courses; and performance courses such as musical performance or art studio courses.

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

(e) Examinations will normally be held at the end of each term of the student's overall performance in a course, will not be determined by any system of quotas.

(f) Examinations will normally be held at the end of each term of the student's overall performance in a course, will not be determined by any system of quotas.

Overall Standing

(1) Both a sessional and a cumulative grade point average 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 the total is divided by the number of full courses (or equivalent) 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.

(2) A student's academic status shall be determined as follows:

(a) A student who satisfies both the following conditions shall be considered to be in good standing:

(i) The student shall be placed on probation who has attempted at least four full courses (or equivalent) in the College and has a cumulative GPA of less than 1.50.

(ii) The student shall be placed on probation if he has achieved a cumulative GPA of 1.50 or more.

(iii) The student shall be placed on probation if he has an average of less than 1.50.

(b) A student shall be placed on probation if he has failed to achieve a cumulative GPA of 1.50 or more.

(c) A student shall be placed on probation if he has an average of less than 1.50.

(d) A student shall be placed on probation if he has an average of less than 1.50.

(e) A student shall be placed on probation if he has an average of less than 1.50.

(f) A student shall be placed on probation if he has an average of less than 1.50.

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(k) A student shall be placed on probation if he has an average of less than 1.50.

(l) A student shall be placed on probation if he has an average of less than 1.50.

(m) A student shall be placed on probation if he has an average of less than 1.50.

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(o) A student shall be placed on probation if he has an average of less than 1.50.

(p) A student shall be placed on probation if he has an average of less than 1.50.

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(r) A student shall be placed on probation if he has an average of less than 1.50.

(s) A student shall be placed on probation if he has an average of less than 1.50.

(t) A student shall be placed on probation if he has an average of less than 1.50.

(u) A student shall be placed on probation if he has an average of less than 1.50.

(v) A student shall be placed on probation if he has an average of less than 1.50.

(w) A student shall be placed on probation if he has an average of less than 1.50.

(x) A student shall be placed on probation if he has an average of less than 1.50.

(y) A student shall be placed on probation if he has an average of less than 1.50.

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(1) A student shall be placed on probation if he has an average of less than 1.50.

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(x) A student shall be placed on probation if he has an average of less than 1.50.

(y) A student shall be placed on probation if he has an average of less than 1.50.

(z) A student shall be placed on probation if he has an average of less than 1.50.

(1) A student shall be placed on probation if he has an average of less than 1.50.
Course of Numbers
(i) The majority of a student's courses at all times must be Scarborough College courses. This refers to the majority of courses in which the student is currently registered plus those which he has already passed.
(ii) A full-time student may register in a maximum of two St. George or Erindale courses in a given Winter Session.
(iii) A full-time student may register in a maximum of one St. George or Erindale course in the Summer Session.
(iv) These rules (limiting the number of courses on other campuses) apply to the student's first fifteen courses only. For the student's sixteenth course and thereafter, there is no restriction as to number.

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 as enrolment 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. In the Summer Session, a part-time student is defined as one enrolled in three and one-half courses or fewer in the preceding Winter Session.
(c) The majority of a student's courses at all times must be Scarborough College courses. This refers to the majority of courses in which the student is currently registered plus those which he has already passed.

Students should be aware that there are a limited number of places on many courses on the St. George and Erindale campuses, and that in some departments, Scarborough students may be given a lower priority than St. George campus/Erindale campus students in the assignment of places.

Students are not normally permitted to register for courses in Faculties other than Arts and Science for credit towards their Arts and Science degrees.

Courses at Other Universities
Students who will be out of Toronto during a given session (if the Summer) may require permission to take a limited number of courses at another university for credit towards their University of Toronto degree, provided that permission is requested in advance.

(1) To take a course at another University, students must request a "letter of permission" from Scarborough College. The request should be directed to the Administration/Liaison Counselor. The student's request should include the course number, title, and description. Students will find that such a letter of permission is very helpful, if not essential, to their obtaining admission as a non-degree student at another University in Ontario.

(2) Requests for letters of permission must be submitted well in advance of the date of the proposed course(s). In no case will credit be granted where a student has not requested and received permission in advance. (This regulation is required to ensure that students who attempt courses elsewhere are liable for penalty for failed courses as well as credit for those successfully completed.)

(3) To receive credit for a course taken at another university on a letter of permission, students must normally earn at least one grade higher than the minimum passing grade (e.g., a grade of 'C' or better) at universities employing a grading scale similar to that at the University of Toronto.

(4) Students who have received a letter of permission are expected to submit an official transcript from the host university promptly after completion of the course. Students who did not register or who withdrew without penalty are expected to submit a confirming letter from the Registrar of the host university indicating that the requirement may result in a grade of "F" being entered on the student's record at Scarborough College.

(5) Students must request a letter of permission to take a maximum of:
   (a) three courses in a fifteen course degree program.
   (b) four courses in a twenty course degree program.

(6) In addition, a student may be allowed, on a special permission, more than:
   (a) two courses in any Winter or Summer Session, and more that
   (b) one course within the last five courses to be completed for the degree.

No letter of permission will be granted for courses at other post-secondary institutions within Metropolitan Toronto, correspondence courses, or courses deemed inappropriate for Arts and Science degree credit at this University.

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, place and date of birth.
   (b) Admission information: basis of admission (e.g., Ontario Grade XIII, 85.0%, listing of courses completed at other universities for which the student was granted advanced standing credits)
   (c) The student's academic record, listed chronologically by session. For each session, the transcript indicates:
      (i) each course attempted, its abbreviated title, and its grade;
      (ii) the sessional grade point average;
      (iii) The cumulative grade point average as at the end of the session;
      (iv) 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 referred further registration.
   (v) Any academic honors awarded at the end of the session: scholarships, prizes, or medals awarded by the College or by the University, and inclusion on the Scarborough College Honours List.

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

(a) Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.

(b) Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them and that it not pass through the student's hands.

(c) Copies of transcripts given or sent directly to students bear a replica signature of the Registrar, but do not bear the official College seal and are marked "unofficial.

(d) To order copies of transcripts, students should visit the Office of the Registrar, or should write to the Office of the Registrar, Scarborough College, University of Toronto, 1255 Military Trail, West Hill, Toronto, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto."

(e) There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

Degrees
(1) A student may receive only one undergraduate Arts and Science degree from the University of Toronto. Scarborough College students may earn either a Bachelor of Arts or a Bachelor of Science degree.

(2) A student may elect to receive his degree after having completed the requirements for the fifteen course degree or after having completed the requirements for the twenty course degree.

(a) A student who has elected to receive his degree after meeting the requirements for the fifteen course degree may choose to complete the requirements for the twenty course degree. The requirements of the twenty course degree will be noted on the student's transcript, but a second degree will not be conferred.

(b) A student who elects to receive his fifteen course degree must so notify the Office of the Registrar in advance of the appropriate University Convocation. Forms for this purpose will be made available to eligible students.

(c) A student who has completed the requirements for the twenty course degree will automatically have his name placed upon the graduation list to receive his degree at the next University Convocation unless he has already received his degree after having completed the fifteen course degree requirements (unless the student specifically requests that his graduation be deferred). Nonetheless, to prevent any possible error, a student who elects to receive his twenty course degree should...
notify the Office of the Registrar well in advance of the appropriate Convocation. Forms for this purpose will be mailed to all eligible students.

d) When students are sent forms for the purpose of notifying the Office of the Registrar of their wish to graduate, a deadline date will be stated for the submission of the form. Where a student submits this form late, every effort will be made to include the student's name on the graduation list, but there is no guarantee that this will be possible. In addition, where a student submits this form after the last day of classes (and where arrangements can be made to include the student's name on the graduation list), a late fee of twenty-five dollars will be charged.

d) Degrees are conferred at University Convocation, held twice annually: the spring convocation in June and the fall convocation early in December. Students who have submitted the appropriate notification of their wish to graduate will be mailed complete information about the time of and arrangements for the Convocation.

Withdrawal

(1) Withdrawal from a Course

(a) Students may withdraw from courses up until the following deadlines: 1979 Summer 1979-80 Winter Session Session Year-long courses ('A' and 'B') 20 July 15 February, 1980 First term courses ('A' and 'B') 8 June 2 November, 1979 Second term courses ('B' and 'B') 27 July 29 February, 1980
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 appropriately 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 fees adjustment. For full information, please refer to the "Subiect 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 recognized 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) A student who wishes to withdraw from the College effects withdrawal by:
(1) withdrawing from all of his courses, in accordance with the procedures and deadlines above; and
(2) completing the procedures outlined in (b) below. Where a student withdraws from the College after completing a course(s), e.g. a first term course, the student retains credit for that course(s) or receives a failing 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, his registration in the incomplete course will be shown on his academic transcript along with (presumably) a failing grade.
(b) In addition to effecting withdrawal from courses, students must, before any refund is authorized, complete the following procedures and submit a "Withdrawal Clearance Form" to evidence their completion:
(1) Surrender any Bookstore charge card and arrange payment of any outstanding account;
(2) Return any borrowed books to the Library, pay any outstanding Library Fines, and surrender their Library Card;
(3) Return any equipment borrowed from the College Recreation Centre and surrender any Recreation Centre locker;
(4) Surrender any College parking permit;
(5) Surrender any library locker and equipment; and
(6) Surrender their registration card.
Students who wish to withdraw from the College should speak with a counsellor in 20 the Student Services Office, who will advise the student of the academic consequences of the withdrawal (with respect to deadlines, etc.), advise the student with respect to his fees adjustment, advise appropriate students with respect to requirement of Ontario Student Assistance; and supply the student with the Withdrawal Clearance Form. (These procedures are somewhat simplified for part-time students.)
(c) Procedures for Requesting Special Consideration, Petitions and Appeals

(1) Petitions for Exceptions to the Academic Regulations

(a) Any student may request that an exception be made in his case to the application of any academic regulation or degree requirement. Such a request takes the form of a petition to the Senate College Sub-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 special consideration is requested, i.e., the reasons why the student believes an exception to the rules is appropriate in his case; and
(iii) appending documents to evidence special circumstances: medical certificates, etc.
(c) Students who wish to submit medical certificates in support of their petitions should seek their 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 academic work on medical grounds.
(d) Students are urged to seek the advice of a counsellor in the Student Services Office before entering a petition and in preparation of the petition.
(e) Petitions are submitted to the Sub-committee on Standing through the Student Services Office.
(f) Students are notified in writing of the Sub-committee's decision on their petitions.
(g) Students who wish to appeal any decision of the Sub-committee on Standing are entitled to enter an appeal to the Sub-committee on Academic Appeals - see (ii) Academic Appeals, below.

(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) Where a student is unable to write a term examination, where his performance on that examination is adversely affected by illness or other extenuating circumstances, the student should speak with the course instructor as soon as possible to request special consideration.
(ii) Where a student wishes to request an extension of an instructor's deadline to submit an essay or other term assignment, the student should speak with the course instructor as soon as possible.
(iii) Where a student wishes to request an extension of time to submit term work past the end of term (i.e. past the "last day for submission of term work" shown in the "Academic Calendar" section of the Calendar), a formal petition to the Sub-committee on Standing must be submitted. See (i) above for information about the petition procedure. The petition should be submitted as soon as possible and no later than the last day of the relevant examination period.
(iii) Where a student wishes to appeal the decision of his instructor with respect to a request for special consideration, the student should speak with or write to the Chairman of the Division offering the course.

(b) Final Examinations

Where a student is unable to write a final examination (whether in one of the final examination periods), or where the student's performance on a final examination is adversely affected, a student may submit a petition to the Sub-committee on Standing - see (i) above. The petition should be submitted as soon as possible and no later than the last day of the relevant examination period.
(3) Requests for Checking of Marks in a Course
Where a student believes that an error has been made in the calculation of his final grade in a course, or in the calculation of his mark on any examination or term assignment, he may request a re-check of the calculations according to the following procedures:

(a) Term Work. Where a student believes that his mark on a term examination or term assignment has been calculated incorrectly, the student should speak with the course instructor as soon as possible to request that the mark be checked.

(b) Final Examinations. Where a student believes that an error may have occurred in the calculation of his final examination mark, the student should do the following:

(i) After the issue of his "Statement of Results," but within six months of the relevant examination period, a student may request from the Office of the Registrar a photocopy of his final examination. A five dollar fee is required at the time of the request.

(ii) If the student believes that an error has been made in the calculation of his examination mark, the student may submit, through the Office of the Registrar, a request for a re-check of the calculation. This request must be entered within six months of the relevant examination period.

(c) Final Grade. Where a student believes that an error has occurred in the calculation of his final grade, the student may do the following. After the issue of his "Statement of Results," but within six months of the relevant examination period, the student may submit, through the Office of the Registrar, a request for a re-check of the calculation of the grade. A five dollar fee is required at the time of the request. If an error is discovered and the mark is changed, the fee will be refunded.

(d) Note Concerning Failed Courses. Instructors are required to re-read the final examinations and to re-check the calculation of term and final marks before submitting a failing grade 'E' or 'F' for any student.

(4) Petition of Marks in a Course
Where a student believes that his work has been graded unfairly, he may petition his mark as grade as follows:

(a) Term Work

(i) Where a student wishes to petition his grade on a term examination, an essay or another term assignment, the student should speak with the course instructor as soon as possible, and certainly before the end of term.

(ii) Where a student wishes to appeal the decision of an instructor with respect to the grading of term work, the student should speak with or write to the Chairman of the Division offering the course.

(iii) Where a student wishes to appeal his grade on term work returned to students only after the end of term (i.e. after the instructor has submitted his grades for the course), a formal petition to the Sub-committee on Standing may be entertained. See (1) above for information about the petition procedure.

(b) Final Examinations.

Where a student wishes to look into the possibility of an appeal of his final examination mark, the student may do the following:

(i) After the issue of his "Statement of Results," but within six months of the relevant examination period, a student may request from the Office of the Registrar a photocopy of his final examination. A five dollar fee is required at the time of the request.

(ii) After the student has seen the photocopy of his final examination but within six months of the relevant examination period, the student may submit a petition to the Sub-committee on Standing to request re-reading of his final examination. The Sub-committee will authorize a re-reading only where a student has articulated clear grounds for reconsideration of some parts of the examination, which grounds address the substance of the answer in relation to the mark given, or otherwise if it is alleged that an error was made.

The student should be aware that instructors are required to re-read the final examination (if any) and to re-check the calculation of term and final marks before submitting a failure grade 'E' or 'F' for any student.

(e) Students should note that, where the Sub-committee on Standing authorizes re-reading of any examination or term of work, it is the responsibility of the Division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the Division to have examinations or term work re-read by the course instructor; unless some compelling argument is put forward by the student that the work be re-read by another member of the faculty.

(5) Petitions Concerning Grading Practices in a Course
The rules governing the determination of grades in a course (grading practices) are shown above. Where a student believes that he has been disadvantaged by violations of those grading practices, he may proceed as follows:

(a) Grading Practices During the Term

(i) Where a student believes that an instructor has violated any rule of the College's grading practices during the term, he is 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, the student may appeal the decision of the instructor with the Chairman of the Division offering the course.

(iii) If the appeal does not yield a resolution to the problem that is satisfactory, the student may appeal the decision of the Division to the Principal of the College.

(b) Grading Practices After the End of Term

(i) Where a student believes that an instructor has violated any rule of the College's grading practices, and this alleged violation comes to light only after the end of term, the student 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, the student 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) A student may appeal any decision of the Sub-committee on Standing on a petition, or (except as noted above) 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 is appealed. Appeals may be communicated in writing to the student by the Sub-committee on Standing or by the Division. As 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.

(c) Students are entitled, if they wish, to a hearing before the Sub-committee on Appeals, and are entitled to representation by legal or other counsel.

(d) Full information may be obtained from the Office of the Associate Dean, Room S-414A, telephone 284-3226.

(7) The University of Toronto Academic Appeals Board

(a) A student may appeal any decision of the Scarborough College Sub-committee on Academic Appeals to the University of Toronto Academic Appeals Board.

(b) Such an appeal must, except in unusual circumstances, be commenced no later than six months after the decision is appealed. Appeals may be communicated in writing to the student by the Sub-committee on 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 of the Appeals Board, Office of the Governing Council Secretariat, Room 106, Simcoe Hall, St. George Campus, telephone 978-8794.

(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, University Ombudsman has been appointed on an experimental basis to investigate grievances or complaints against the University, or anyone in the University's exercising authority, from any member of the
Appendix "The Old Rules on Assessment of Academic Status"

New rules on assessment of academic status were introduced as of the beginning of the 1978 Summer Session. In certain cases where a student who began his studies before the 1978 Summer Session would incur suspension or refusal of further registration under the new rules, the "old rules" below will be applied, if that is to the student's advantage. (See "Overall Standing" (3) above.)

(1) Academic Probation and Suspension for One Year

A student will be placed on academic probation or suspended for one calendar year according to his academic performance as indicated in the following table.

<table>
<thead>
<tr>
<th>Number of courses attempted</th>
<th>Credits at a grade of C- or higher</th>
<th>Credits at a grade of D- or higher</th>
<th>Suspended for one year if &quot;F&quot; or &quot;F&quot; in more than</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 - 1/2</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3/2 - 3/2</td>
<td>6</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>5/2 - 5/2</td>
<td>8</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>7/2 - 7/2</td>
<td>12</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>9/2 - 9/2</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>11/2 - 11</td>
<td>18</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>13/2 - 13</td>
<td>20</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>15/2 - 15</td>
<td>22</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>17/2 - 17</td>
<td>24</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

A student who is on probation will be warned that he must clear his probationary status on completion of the fourth full course (or equivalent) following the first probation warning. A student who does not clear his probationary status at the end of the session in which he attempts the fourth full course (or equivalent) while on academic probation will be suspended for one calendar year.

Exceptions to this rule are as follows:

(a) no student shall be suspended who has not attempted four full course equivalents since the introduction of this rule at the beginning of the 1977 Summer Session.
(b) in the case where it is impossible to clear his probationary status by achieving the required number of courses at C- or higher, the student must obtain a grade of at least C- in any course attempted starting with the 1977-78 first winter session being placed on probation, Winter Session until such time as the probationary status is cleared.

(2) Suspension for Three Years

A student will be suspended from the College for three (3) calendar years if:

(a) the student fails more than four (4) full courses or equivalent;
(b) the student fails to satisfy the requirements for the fifteen course degree in the first semester (19 attempts);
(c) the student fails to satisfy the requirements for the twenty course degree in the first twenty-four (24) attempts;
(d) after return from a one-year suspension, the student fails more than one full course or equivalent in any session;
(e) after returning from a one-year suspension, the student fails to recover the required number of credits at grade C- or higher (as given in the above table) by the end of the session, or, in the case where that is impossible, fails to obtain a grade C- or higher in any course attempted until such time as the requirement has been satisfied.

A student who wishes to return to studies in the College after having incurred a three-year suspension may, after the period of suspension has expired, enroll in any one session in two full courses or equivalent which he has not previously attempted. If the student obtains an average grade of 'B' in the two full courses or equivalent, and not less than C- in either, he will retain credit for these courses and for all courses in which he was previously successful, and he may reenroll to complete the remaining courses required for the degree on the condition that he be not subject to any further failures.

(3) Refusal of Further Registration

A failure in a full course or equivalent after return from a three-year suspension, or failure to obtain the specified level of performance in the first two (2) full courses or equivalent attempted after such a suspension will result in the refusal of further registration in the College.

(4) Refusal of Further Registration to Special Students

A Special Student whose record is unsatisfactory will normally be refused further registration in the College.

GENERAL INFORMATION

Admission

The following is a brief statement of the admission policies and procedures of the University of Toronto. Full information may be obtained from:
The Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario, M5S 1A3

Basis of Admission

(1) Ontario Year V

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 3rd level;
(b) submission of a complete academic report for the last three years of secondary school.
Scholarships and Other Awards

Admission Scholarships
A substantial number of admission scholarships is awarded each year on the basis of excellent academic standing as demonstrated by Year V marks, year IV marks and other information submitted by the secondary schools (with class standing being particularly important).

To apply, Year V 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.

In-Course Awards
University of Toronto In-Course Scholarships. Applicants for scholarships must have completed at least one year's work at the University of Toronto with a minimum Grade "A" standing in their most recent year's work. Applications may be obtained from the Student Services Office in the fall. Deadline: November 15.

University of Toronto In-Course Bursaries. Applicable for bursaries must demonstrate exceptional financial need. Normally, applicants should have completed at least one year's work at the University of Toronto with at least Grade "B" standing in their most recent year's work. In cases of extreme need, however, students with Grade "C" standing and first year students may apply. Applications may be obtained from the Student Services Office in the fall. Deadline: November 13.

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 students in each year at Scarborough College, in each of Humanities, Science and Social Sciences. All students with excellent academic standing are considered each fall; no application is required.

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

The All Taybeh Scholarship. Awarded to a student who demonstrates excellence in Political Geography, Geography of Resource, studies of developing nations, Canadian studies, or an appropriate related field. Awarded in memory of Professor All Taybeh, a former member of the faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty; no application is required.

Paskal 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 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 Vincen Paskal, a former faculty in the Psychology. The competition will be announced each spring, with applications available from the Student Services. The Bursary is paid the following fall.

Graduation Prizes

The following awards are made in recognition of academic excellence among the members of the graduating class each year. 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 four graduation prizes below.

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 fifteen and twenty course degrees are considered.

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

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 3.0 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 3.0 or better in appropriate programs of their career are recognized. Other students may be nominated by the academic divisions of the College, no application is required. Complete information may be obtained from the Student Services Office.
Discipline: 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 the 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 ideas 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 previously been 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 prepared statement of fact or reference to a source which has been concealed;

(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 alter or make use of any such forged or falsified records;

(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 to 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) Censure;

(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 any offence was committed;

(e) Suspension from attendance in all courses in which the student is registered at the time the offence was committed or any 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 recorded at the time the offence was committed;

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

(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.
PROGRAMMES OF STUDY AND COURSE DESCRIPTIONS

Course Key

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.
   - AN100Y “ANT” indicates a course in Anthropology.
   - CHM100Y “CHEM” indicates a course in Chemistry.
   - PHIL100Y “PHIL” indicates a course in Philosophy.

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 simple 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 describes in any discipline points are any special significance given to course numbers.

4. Credit Value and Duration of a Course. The final letter of the course code indicates the credit value and duration of a course as follows:

<table>
<thead>
<tr>
<th>Final Letter</th>
<th>Credit Value</th>
<th>Winter Session</th>
<th>Summer Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>Full Course</td>
<td>Sept. - May</td>
<td>May - August</td>
</tr>
<tr>
<td>F</td>
<td>Half Course</td>
<td>Sept. - Dec.</td>
<td>May - June</td>
</tr>
<tr>
<td>S</td>
<td>Half Course</td>
<td>Jan. - May</td>
<td>July - August</td>
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<tr>
<td>H</td>
<td>Half Course</td>
<td>Sept. - May</td>
<td>May - August</td>
</tr>
<tr>
<td>A</td>
<td>Full Course</td>
<td>Sept. - Dec.</td>
<td>May - June</td>
</tr>
<tr>
<td>B</td>
<td>Full Course</td>
<td>Jan. - May</td>
<td>July - August</td>
</tr>
</tbody>
</table>

Hence, AN100Y is an introductory course in Anthropology taught throughout the session and worth a full course credit. PHIL100Y is an advanced course in Philosophy taught only in the second term and worth one-half a course credit.

Note: Courses marked IPS 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 he feels 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.

3. Corequisites. A student must either already have standing in a corequisite course, or be enrolled 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 corequisite requirements, or if a student withdraws from the coregistered course without obtaining specific waiver of the corequisite requirement, 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 prerequisites and corequisites 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
ANT395Y1  Introduction to Anthropology / J. S. Hilton
An introduction to the methods of anthropology through which the student will obtain the anthropological view of the nature and diversity of humans. The first term deals with Physical Anthropology and Prehistoric Archaeology, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term concerns historic archaeology, the nature of Language and the comparative aspects of Cultural Anthropology, through a study of social groups as well as economic, political and religious systems in both non-industrial and industrial societies.
The teaching method consists of lectures and tutorials.
Session: Winter Day, Winter Evening

ANT495Y1  Peoples of the World / J. T. McFaul (and Staff)
This course is designed to provide intimate views of the lives of peoples in communities in various parts of the world. Emphasis is given to the diversity of cultures rather than their common features.
The course will cover the Human Features of Primate Groups, the modern features of ancient groups, and the ancient features of contemporary groups. Communities: Their survival and change, ideals and values, groups and witchcraft: Mobility: The organizing of economic units, dividing labor and exploitation; leaders and subordinates. Stability: Community patterns, houses and environments, temples. Expressiveness: Variations in language, origin myths, art and music, major media of expression. Events: Gifts, money and credit, repertory, currency, secrecy, partners and trade. Process: Migration, childhood, birth, adult and age, universal relations between men and women. Power: Chiefs, kings, priests, shamans, sorcerers. Reaching: Disease and curing, theories of the universe, deaths, causes and remedies: revitalization movements. There will be lectures and discussions; slides, motion pictures and demonstrations. Papers or research projects and a final examination in April will be required.
Exclusions: AN493Y
Session: Winter Day

ANT496F  Cultural Ecology
A discussion of the relationships of human populations differing in culture, social organization and technology with their environment in the following sub-systems: systems of food production, patterns of disease, and ecological aspects of warfare and demography. Cases will be drawn largely from non-industrial societies.
Cultural ecology is one way of examining and studying a socio-cultural system. The course will consider both the utility of such an approach, and the quality and relevance of the data it generates. There will be two one-hour lectures and one one-hour tutorial per week. Some combination of essays and oral examinations will be required.
Prerequisites: AN395Y
Session: Winter Day

ANT701S  Anthropological Studies of Religion / J. C. Hopson
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, curdling, witchcraft and sorcery.
The course is concerned with the anthropological study of supernatural beliefs in small scale non-Western societies. Topics covered include: the origin and function of ritual; myth; ritual; shamanism; magic; witchcraft; divination; death; ghosts; ancestor cults; and dynamics of religion. Seminar: one two-hour session per week. Some combination of essays and oral examinations will be required.
Prerequisite: AN701S
Session: Winter Day

ANT801F  The Americas: An Anthropological Perspective / J. W. Shirley
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 Day

ANTHROPOLOGY
Assistant Chairman: L. S. White
Anthropology is the study (or science) of humankind, dealing with the origin, development and nature of humans 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 societies today and in the past, as part of complex civilizations and in relatively small-scale non-literate societies. From this vantage point Anthropology attempts to arrive at an understanding of the common factors underlying human existence and to isolate the causes that have led and continue to lead to social and cultural change and to differences between peoples and cultures.

Because of the vastness of its subject matter, Anthropology is traditionally divided into four subfields: Social-Cultural Anthropology, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarburgh College offers courses in the first three only, with occasional offerings in the last. (However, the Humanities Division presents several courses in Linguistics.)

Students wishing to major in Anthropology are advised to consult with the supervisor of studies, Professor D. B. Burton (Room 4104). AN495Y1 is normally required of all students entering the program. A document listing some possible programmes of study in Anthropology is available from the office of the Division of Social Sciences (18410).

Major Programme in Anthropology

Supervisor of Studies: D. B. Burton

Students are required to complete not less than ten full course equivalents in Anthropology, and normally* must observe the following requirements within the general programme:

- At least one year's worth of background in Anthropology, or declared major interests and relevant background training may petition the supervisor of Studies for waiver of AN495Y1 prior to registration in the programme; if permission is granted, the student will be required to take all three of AN101Y, AN102Y, and AN103Y during the first-year programme.
- AN101Y is normally required as a prerequisite to other courses in Anthropology for all majors.
- AN102Y, AN103Y, and AN104Y - Two of these three courses must be taken within the first-year programme.

* Full-course equivalent in supervised reading and/or research courses, from AN495Y, AN496Y, AN497Y, AN498Y, and AN499Y.

Any six full-course equivalents at the B- or C-level, from the remainder of the Anthropology curriculum. While the programme can be completed at Scarburgh, students may also wish to investigate the course offerings of the Department of Anthropology, St. George campus.

Anthropology major programmes can be planned to meet the diverse needs of students wishing emphasis in a chosen sub-field of Anthropology.
ANT4185 Social Anthropological Study of Africa / C. Haydn
After a review of certain cultural, 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 denominational organizations. Seminar: one two-hour session per week. Some combination of essays and/or examinations.
Prerequisite: ANTA31
Session: Winter Day

ANT4175 Comparative Slavery / R.W. Sherley
An examination of slavery as an institution in several areas of the world, including Brazil, Africa, the Caribbean, and the United States. An effort will be made to examine the modern consequences of slavery as well.
Prerequisite: ANTA31
Session: Winter Day

ANT4165 Phallocentric Peoples: The Archaeology of Hunter-Gatherers
A review of the chronological framework for cultural change, and of the evidence which documents 90% of cultural development and adoption during the last two to three million years.
Prerequisite: ANTA31
Session: Winter Day

ANT4125 Predators of the Holocene / J.H. Schmandt
Examination of the two major predation cultural events of the Holocene out of which emerged modern human societies: the agricultural and urban transformations. The course content emphasizes the ecological-adaptive factors and the archeological evidence bearing on the beginnings of permanent human settlements, the domestication of plants and animals, and the development of complex social and technological systems.
Prerequisite: ANTA31
Session: Winter Day

ANT4144 Human Evolution
An analysis of the phylogeny of man. The course examines the theories that form the theoretical framework to understanding of fossil evidence. Readings related to this theme are required. Laboratory sessions permit the student to examine fossil cast materials.
The course involves the 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 primates and primate evolution will be undertaken. The major portion of the course deals with a survey of the discovery of human fossils and attempts to synthesize a meaningful interpretation out of what is presently known concerning human origins. The goals of the course are to introduce evolutionary theory in an historical context, to survey the history of the discovery and interpretation of our ancestor's and to attempt to provide a meaningful understanding of the selective pressures which culminated in the phenomenon of modern human and hominid evolution. Lectures with discussion and labs. One mid-term exam, one paper, one final exam.
Prerequisite: ANTA31
Session: Summer Evening

ANT4155 Introduction to Physical Anthropology / F.D. Barton
A survey of the human place in nature, origin (clad) and ongoing evolution (branching). Basic to the course is an understanding of the three evolutionary theory and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropology.
Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behaviour of non-human primates, taxonomy and classification, palaeontological principles and human origins.
Prerequisites: ANTA31 or ANTB14 or Permission of Instructor
Session: Winter Day

ANT4165 The Cultures of Modern Canada / S. Hilton
A consideration of contemporary cultures in Canada and how these have developed during the last forty years. Indigenous groups (Indian, Metis, Inuit) and formerly-immigrant 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 subcultures in a national political and economic context.
The course includes three major sections: The first will consider the history of Canadian settlement since the early 1600's; the second will relate local cultural groups to contemporary social settings; and the third will show the interrelationships of these groups to the wider contemporary Canadian context. One two-hour lecture session and one one-hour tutorial per week.
Prerequisite: ANTA09 or Permission of the Instructor
Session: Winter Day

ANT425 Introduction to Social Organization
"Kinship is to Anthropology what logic is to Philosophy or the nude is to Art; it is the basic discipline of the subject." (Fon) This course considers variations in human social structure, focusing mainly on kinship-oriented societies.
The course compares a range of societies, moving in scale from the bands of hunter-gatherers, through tribes and chiefdoms, to peasant and urban societies, in order to investigate the principles of human social life and the extent of human social diversity. Major attention is placed on how kinship systems in small scale societies are used by human groups to organize their living patterns, their demographic space, their economic livelihood, and their internal and external political relationships. The course is organized around case studies, but the theoretical implications of particular models of social structure are also considered. One two-hour lecture and one one-hour discussion session per week. Evaluation will be based on a combination of essays and examinations.
Prerequisite: ANTA31
Session: Winter Day

ANT2121 North American Background to Canadian Native Peoples / S. Hilton and T. McFetts
North American Native Peoples formed a mosaic of connected yet distinct cultures ranging in complexity from Subsistence huts to Northwest Coast Dwellers and Plains warriors. From Paleoindian farmers and Incanic confederacies to the urban dwellers of ancient Tonoptah. Early contacts with Europeans destroyed the activities and some hunters while fundamentally altering others. Later contacts witnessed displacements, confinement, and erosion of traditional culture and widespread poverty.
Twentieth century Canada marks the regeneration of native culture with the appearance of new societies on trap lines and reserves, the formation of co-operatives, the acquisition of technical skills, unique art forms and living literature. The Inuit movement, and the emergence of the Inuit, Dene, Metis, and other ethnic groups, together disclose both a new identity and a new society.
Closes and discussion. Essays and Examination.
Prerequisite: ANTA01
Session: Winter Day

ANT221 Primate Behavior / F.D. Barton
A general review of primate behavior in its ecological setting. Humankind represents only a tiny portion of the Order Primates. The interest in our own species has generated a proliferation of studies on the other members of this Order! The anthropological bias in such studies is clearly to gain a perspective on human evolution by assessing processes of adaptation. This purpose is served by examining the systems, distribution, social behavior and ecological relationships over the array of non-human primate forms. Three hours of lecture per week. The two hour block permits zoo visits and films. A long paper topic is selected early in the year (it may be a short research paper or original research at the zoo).
Prerequisite: ANTA01 or FSVY01 or BIO305
Session: Winter Day
ANTB2V Comparative Mythology
This interdisciplinary course deals with the nature of myths from the viewpoints of Anthropology, Folklore, Philosophy, Linguistics; Psychology and Comparative Religion. The main emphasis is on the nature of oral narrative in small-scale societies, but the generation of myth in myth in modern society is also considered.

Combination of various theories of myth and the part it plays in society. The nature of the relationship between myth and other narrative forms, between myth and ritual, and myth and society will be explored. The political context and implications of myth are also discussed. Examples are drawn from a wide range of societies, including African, American Indian, Classical and Near Eastern, and the modern world. Two one-hour lectures and one one-hour discussion session per week. Evaluation will be based on a combination of essays and examinations.

Session: Winter Day

ANTB2Y The Organization of Group Cultures / J. M. McKeen
This course explores the ways in which groups and networks are woven together into community life to create local cultures in villages, towns and cities.

This course will cover Primary Groups and Networks: Households and Communities, Task Groups: Hunting bands; Crews, Bands, Cooperatives; Decision Groups: Committees, Councils, Courts; Areas of dispute: Settlements, Expressive Groups: Game Players & Teams; Debates, Fights, Rituals, and the Spatial Behaviour of human groups, Information Groups: Folk tales and mythologies; the creation of World Views and re-evaluation of such views under conditions of change; models in the Mass Media; Lectures or seminar discussions; slides, motion pictures and demonstrations. Papers or research projects; final examination in spring.

Prerequisites: ANTA2Y, or sociologv or geography or psychology or permission of instructor.
Session: Winter Evening

ANTB2X Introduction to Prehistoric Archaeology / H.R. Schroeder
A survey of the anthropological sub-discipline which is concerned with human socio-cultural development during the past three million years. Specifically, the course reviews the aims, methodology, and results of prehistoric Archaeology in both the New and Old Worlds.

This course will involve two hours of lecture and one hour of lab/tutorial per week as well as one field trip on a Saturday or Sunday of the Fall term.
Prerequisites: ANFA1
Session: Winter Evening

ANTB2V Analysis of Archaeological Material / J. M. Latta
This course involves in-depth examination of two major classes of material culture: ceramics and lichens. Students will develop analytical skills through construction and study of artifacts in order to evaluate materials, construction principles and function of tools in prehistoric and contemporary contexts.
Prerequisites: ANTA2Y, ANTB2X or ANTB27.
Session: Winter Day

ANTB3Y 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 and theory to other cultural systems, emphasizing data from non Indo-European languages. Topics covered include language as the encoder and interpreter of culture, and the relevance of linguistics data to the study of history and prehistory. One two-hour lecture session per week. Some combination of essays and/or examinations.
Session: Winter Day

ANTB3V Urban Anthropology
An analysis of comparative urban and rural populations and their environments, with emphasis on practical research and field methods. Limited enrollment: 25.

The course is designed for students interested in urban studies. It offers an opportunity to work with research data collected by the student, and to formulate and test hypotheses in the field. The aim is to allow the student to produce an original piece of research that has practical value for future professional careers. Internship components include: the development of urban lifestyles and their impact on different cultural groups, and on the historical relationship of rural and urban settings; laboratory experiments designed to assist in preparing methodology for field research; and introduction to various media presentation methods. The second term is devoted to group discussion and interpretation of individual research progress, and to the theoretical applications (use of models) for the urban material collected. Two hours per week of lectures and seminar discussions, plus a minimum of one hour per week for field research. Some combination of essays and/or examinations.

Session: Winter Day

ANTB2Y Prehistory of Mesoamerica / J. M. Latta
In general, this course aims at an understanding of the development and achievements of the civilizations of Mexico. We will consider the two main problems: the beginnings of agriculture and its effects on culture, and the forces which contribute to the emergence or disappearance of civilization.
Prerequisites: ANFA1
Session: Winter Day

ANTB3Y Prehistory of North America North of Mexico / J. M. Latta
This course complements ANTB27 by presenting the prehistory of North America north of Mexico. The course will focus on the processes of diffusion and ecological adaptation in the study of the evolution and emergence of North American Indian cultures from a late Paleolithic hunting base.
Prerequisites: ANFA1
Session: Winter Day

ANTB4V Anthropological Demography / L. Szwedchuk
This course will examine the biological, demographic, ecological and social-cultural determinants of human and non-human population structure and the relationships between these determinants.

Lecture topics include population and societal strategies of survival and adaptation, population structure of small-scale and urban societies, and paleodemography and zoogeography. Five laboratory exercises and one exam.
Prerequisites: ANTA2Y, ANTB15 is recommended.
Session: Winter Day

ANTB4V Physical Anthropology / L. Szwedchuk
This course is designed to give the student an understanding of physiology in its ecological setting. i.e. physiological Anthropology. It emphasizes physiological principles and systems, ecological principles and systems and the interrelationships of these two areas. An anthropological approach to physiology involves considerable attention to evolutionary schemes and comparative physiology.

Specific topics include: introduction to basic physiology; physiological systems (reproduction, vision, etc.); physiological systems in adaptation (cold, heat, altitude adaptation, etc.); ecological concepts and analysis (food chains, trophic levels, etc.).
Prerequisites: ANFA1 or BIO48
Session: Winter Day
ANTB07Y Human Osteology
The course emphasizes structure and function in the human skeleton. The history, and the osteometric as well as the phylegetic development of skeletal elements is treated holistically. Palaeoanthropology and forensic aspects are also considered.

The course is oriented around practical procedures and laboratory sessions, and is designed to acquaint students with the systematic and functional aspects of morphological structure. It will deal with phylegetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects. One three-hour lecture session, and one two-hour laboratory session per week.

Prerequisite: ANTH01 or BIOA05; ANTH14 or ANTH15
Session: Winter Day

ANTB08S Human Osteodontology
The analysis of primate dentitions is approached from a phylegetic and osteometric perspective. The evaluation of dental structures among the vertebrates is stressed, with special emphasis upon the functional aspects of mammalian molars. The significance of teeth in primate and human paleontology, as well as dental histology are also stressed.

The course is oriented around practical procedures and laboratory sessions, and is designed to acquaint students with the systematic and functional aspects of morphological structure. It will deal with phylegetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects. One three-hour lecture session, and one two-hour laboratory session per week.

Prerequisite: ANTH01 or BIOA05; ANTH14 or ANTH15
Session: Winter Day

ANTB09S Law and Society / R.W. Skidelsky
This course is an examination of the problem of order in society. It will be highly comparative, studying legal institutions through the world and in all levels of social complexity.

The course will start with an examination of social control in relatively "simple" societies, followed by a survey of the legal institutions of various forms of the state. Hopefully we can include some work on the philosophy of law.

Prerequisite: ANTH50 or Instructor's Permission
Session: Winter Day

ANTB09F Field and Fiction in Archaeology
This course focuses on the merits of explanatory and other formulations concerning human prehistory. The course will consider proposals by popularists of our prehistoric past such as E. von Däniken, K. Asbury, W. Morris, and T. Heyerdahl and the contributions of archaeologists F. Beaudin, E. Binford, K. Flannery and others regarding critical issues in prehistoric cultural development. Topics of investigation include ancient migration and diffusion on a large scale; the nature of the origins of big-game, and other monumental structures; and the reconstruction of prehistoric societies and activities, in both specific and general terms.

Prerequisite: ANTH50
Session: Winter Day

ANTB10Y Medical Anthropology / L. Sackuch
The examination of health and disease in sociocultural and ecological perspective. Emphasis is placed on variability of populations in terms of both chosen susceptibility and cultural means of definition and treatment.

The course is designed to introduce students to the basic concepts and principles of medical anthropology, focusing on the interrelationship of biological and cultural variables and processes. Prerequisites: Anthropology 107 or 108, history, and writing. Specific topics include epidemiology, ecology, ancient humans, health care delivery, and health care delivery in the Third World.

Prerequisite: ANTH50Y
Session: Winter Day

ANTB12Y Field Methods in Historical Archaeology / M. Latta
Consideration of the practice of historical archaeology, special techniques and problems, with intensive experience in an actual site situation.

The course will be offered between May 15 and June 29, 1979. Since it will be necessary for students to live within commuting distance of the site, interested individuals should contact the instructor in detail and arrange for a visit. Six weeks of full-time excavation will be carried on under the joint guidance of St. Roch's College and Parks Canada, with lectures and field trips to provide further insights into the use of archaeology as a tool in historical reconstruction and interpretation. Students who successfully complete this course may have the opportunity to continue work in additional programmes within Parks Canada for the remainder of the summer.

Prerequisite: ANTH50Y, ANTH60Y, HIS50Y recommended as well.
Session: Summer Day

ANTC01F and CI45 Directed Reading in Anthropology / Members of Faculty
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individuals tutorial, as arranged. Evaluation will be based on some combination of essays and/or oral presentations and/or examinations, as arranged.

Prerequisite: Permission of instructor.
Session: Winter Day

ANTC09W The Anthropology of Human / C. Harper
It is postulated that among other things, the cross-cultural study of human nature is central to the human condition. The course will discuss the consequences of this view on the nature of human societies. The human becomes familiar with literature from anthropological reviews. Seminar: one two-hour session per week. Evaluation will be based on some combination of essays and/or examinations.

Prerequisites: Any two courses ANTH50, ANTH60, ANTH70, ANTH71
Session: Winter Day

ANTC13Y The Anthropology of Women / S. Hilton and M. Latta
In the aftermath of International Women's Week, many scientists are re-examining traditional views of the origins and development of human culture. This course will consider the biological and cultural factors which have influenced the roles of women in traditional and contemporary societies. Students will then have the opportunity to examine aspects of this subject in detail and present these findings to the class in an informal seminar.

Prerequisite: One B-level course
Session: Winter Day

ANTC12F Research on the Social Behaviour of Non-Human Primates / J.D. Burton
The purpose of this course is to observe, record, and process data of the social behaviour of non-human primates. The class will focus on methods of gathering data under naturalistic conditions. The work is done either on captive animals in semi-naturalistic enclosures, or on free-ranging animals abroad. An intensive course, the student is asked to attend a minimum of five hours per day when the course is held at the zoo, and dawn to dusk on free-ranging animals abroad. Limited enrollment by permission of the instructor (when abroad) or 30 (at zoo, June 1-30).

Prerequisite: ANTH50 or permission of instructor
Session: Winter Day

ANTC13F and CI45 Advanced Research in Anthropology / Members of Faculty
Directed critical examination of specific problems in Anthropology, based on library and/or field research. Individual tutorials, as arranged.

Some combination of essays and/or oral presentations and/or examinations, as arranged.

Prerequisite: Permission of Instructor.
Session: Winter Day
ASTRONOMY

Discipline Representative: P.P. Keenleyside

Astronomy is at the same time one of the oldest and most dynamic areas of Science. It is basically man's attempt to gain an understanding of his place in the sidereal universe, compounding the planetary system in which he lives to the most distant galaxies and quasars which can be seen only as they were before men walked this earth. Within the past ten years have come astronomical observations which suggest the explosive "Big Bang" origin of the entire universe and the presence of colossal star units in the interstellar medium of our galaxy. The implications of these and other astronomical discoveries for man and his world are profound. The full range of astronomical topics is covered at an introductory level in ASTRO1 (for science students) and ASTRO10 (for non-science students) while selected astrophysical topics are dealt with at a more advanced level in ASTRO6 and ASTRO8. JPAC8 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

ASTRO14 Astronomy: Exploring the Universe / C.C. Dew

In this modern look at the universe an appreciation of the techniques and implications of observational astronomy is developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers 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 space, from the wavelike character of light to the nuclear interior. From the quiet life of a star like the sun to its often cataclysmic demise; from the tranquility of an interstellar dust cloud to the frenzied storms of a pulsar; from X-ray source to a black hole. Completion of this course should better equip one to assess the importance of forthcoming developments to the advancement of knowledge of the universe and to contemplate such questions as life on other worlds. Instruction in the use of the telescopes, cameras, and darkroom equipment is provided for all interested students, whether their ultimate purpose is carrying out a term project or merely extraterrestrial star-gazing.

The course structure is two lectures and one tutorial/instructional per week. Practical observations are introduced in the laboratory and are scheduled evenings in the fall. Visits to the David Dunlap Observatory and the McLaughlin Planetarium are also arranged. Evaluation is based on Term work (1) consisting of lab exercises (25 points), a term project (15 points), and a Chrismas test (10 points); for a total of 50 points. A three-hour final examination (2) for a maximum of 50 points, will also be included. The final grade (F) will be computed from the equation:

F = (R + T1)*100 - 10

Evaluation: ASTRO14
Prerequisites: Grade 13 Physics, Grade 13 Functions and Relations
Session: Winter Day

ASTRO15 A Survey of Astronomy, its Recent Development and Significance / M.P. Keenleyside

Astronomy 15 is a basic science course for non-science students, which surveys all aspects of the extra-terrestrial 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 explained, the nature of stars and black holes, galaxies, clusters of galaxies and quasars is discussed and considered is given to theories of cosmology and the origin of the universe. It is shown how man's changing understanding of the wider universe 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 man's expansion into space are discussed. In addition to lectures, there is one hour lecture per week/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. Astronomy 15 will contain a description of all aspects of the extra-terrestrial universe and the methodology, past, present and future. The first portion of the course will be devoted to exploring the various interactions between current technology and both space and ground based experiences. The course structure is two lectures and one tutorial per week. An essay will be required.

Evaluation: 50% for exam and term tests and 50% for essay and tutorial exercises.
Session: Winter Day

ANTC1500 Frontier of Anthropology / R.W. Shirley

This course is intended to be an advanced seminar on theoretical problems in anthropology. Prerequisite: ANT410 and one B-level course.
Session: Winter Day

ANTC1405 New Perspective on Human Origins

Important theories and models of human evolution will be examined. Consideration will be given to theories that emphasize the structural aspects of man's emergence. Demographic and ecological models will also be reviewed. However, it is expected that investigative emphasis will be placed on behavioral models of hominid evolution. Some of the conceptual parameters that may be dealt with are: hominid skeletal evolution; major hominid behavioral properties, such as: aggression, territoriality, and altruism; paleoecology and the development of diagnostic hominid fossils and locomotor complexes; and, the relative roles of the various evolutionary forces of genetic drift, gene flow, non-random mating and natural selection. The final section of the course will synthesize the above information in its effort to understand human origin in a broad perspective. The lectures in the introductory weeks will be followed by class discussion and student seminars. Evaluation will be based on major research projects to be presented orally and handed in at the end of term in the form of a written term paper.
Prerequisite: ANT5149; ANT5155. (ANT5169 is recommended but not required)
Session: Winter Day

COURSES NOT OFFERED IN 1978-79

ANTB1405 Cultural Ecology: A Diachronic Perspective
Prerequisite: ANT410.

ANTB1305 Background of Modern Archaeology
Prerequisite: ANT305, or permission of instructor.

ANTB1375 Complex Society
Prerequisite: ANT410.

ANTB1395 Cultural Evolution
Prerequisite: ANT410, or permission of instructor.

ANTB1495 Economic Anthropology
Exclusion: ANANT205
Prerequisite: ANT410.

ANTB2175 Archeological Methods and Materials
Prerequisite: ANANT305.
Corequisite: ANANT395.

ANTB2255 The Prehistoric Archaeology of Canada
Prerequisite: ANT410.

ANTB2325 Introduction to Political Anthropology
Prerequisite: ANT410.

ANTB395 Human Diversity
Prerequisite: ANT410; ANT415 is recommended.

ANTB415 Pro-Industrial Technology
Prerequisite: ANT410.

ANTB435 Psychological Methods in Anthropology
Exclusions: ECOW30; ECOW31, PSYB70
Prerequisites: ANT410; ANT415 and ANANT305 are recommended.

ANTB460 Development and Childhood
Prerequisite: ANT410; or permission of instructor.

ANTC2022 Systems of Thought
Prerequisite: At least B-level course in social Anthropology.

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ASTB04Y Topics in Astrophysics: Origin and Evolution
M.G. Martin

Theories and observational evidence related to the origin and subsequent evolution of astronomical objects and to the conditions for the development of intelligent life in the universe. The course will consist of five topics: (a) the origin and evolution of the universe as a whole, of the galaxies, of the stars, and of the solar system; and (b) a study of the conditions for and possibilities of either life in our galaxy and the significance of the interstellar medium.

The course is devoted to presenting the theories and observational evidence relating to the origin and evolution of astronomical objects and the development of intelligent life in the universe. The course consists of five topics, viz.: (a) Stars, (b) The Solar System, (c) The Universe, (d) Galaxies, (e) Life in the Galaxy. Students are given a comprehensive introduction, using elementary mathematics and physics, to the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the basis of this knowledge it is hoped to provide the possibility of extraterrestrial planetary systems is discussed and the question of the origin of life is considered in the context of recent discoveries of certain molecules indicative of the interstellar medium. The course structure is two lectures and one tutorial per week. Evaluation is 55% for biweekly assignments, 15% for final term test, 15% for second term paper and 10% for the final exam.

Prerequisites: PHYS03 or PHYS02; MATH23 or MATH35
Session: Winter Day

ASTC01H Research Topics in Astronomy
J. C. Dyer, P. P. Kronberg, R. G. Martin

Application of individual effort to reading and research on a topic of current interest. ASTC01H is 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 topics will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultations 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 Dr. Dyer, Dr. Kronberg, or Dr. Martin. The bibliography is dependent upon the topic selected. Evaluation is 75% for thesis and 25% for discussion and oral summary.

Prerequisites: ASTA02Y or ASTB01; PHYS01; permission of instructor
Session: Winter Day

BIOL05Y Introductory Biology

In the second year of full-time study (or equivalent) students normally select from among the following courses:

- BIOB21Y Basic Microbiology
- BIOB05Y Genetics
- BIOB06Y Plant Physiology
- BIOB07Y Invertebrate Zoology
- BIOB12Y Fundamentals of Ecology
- BIOB13Y Plant Structure and Development
- BIOB17Y General and Comparative Physiology
- BIOB22Y Comparative Vertebrate Morphogenesis
- BIOB23Y Developmental Biology
- BIOB15Y Plant Kingdom
- BIOB27Y Comparative Vertebrate Histology
- BIOB10Y Biogeography
- BIOB43Y General Vertebrate Biology

In the third year of full-time study (or equivalent) students normally select from among the following courses:

- BIOB11Y Animal Populations and Evolution
- BIOB13Y Aquatic Systems
- BIOB09Y Biology of Macromolecules
- BIOB20Y Cell Ultrastructure
- BIOB11F Invertebrate Neurobiology
- JBCB15Y Introductory Biochemistry
- JBCB16Y Laboratory in Biochemistry
- JBCB17Y Physiology of Microorganisms
- JBCB17Y Plant Ecology

In the fourth year of full-time study (or equivalent) students normally select from among the level courses in Biology. Students interested in Biology, but not intending to take either Biology courses should refer to:

- NSCAR2Y Introduction to Natural Science: The Biological Sciences
- NSC02Y Quaternary Environments and Man

Major Programmes in Biology

This programme must include the following courses:

1. BIOB05Y
2. At least one full course or equivalent from each of the following core areas:
   a. Genetics and Evolution: BIOB05Y, BIOB11Y, BIOB20Y
   e. One full course equivalent at the C-level in Biology
3. Four other Biology courses, unspecified. Of the total of ten Biology courses required for a Biology Major Programme, at least one must be a Plant Science Course: BIOB05Y, BIOB11Y, BIOB15Y, BIOB20Y, JBCB11Y
4. Required courses in other Disciplines: CHMACY or CHMACY, PHYA02Y or PHYA02Y, and a Mathematics course (MATA22Y, MATA22Y, MATA25Y or MATH22F and MATH77S) or a statistics full course in another discipline.
5. One full course or equivalent from the following: ANTB31Y, ANTB32Y, ANTB35Y, ANTB36Y, ANTB37Y, ANTHE0, ANTHE0, ANTHE0, PHIL80F, PHIL80F, PHIL85F, PHIL85F, SOCI00Y, SOCI00Y, SOCI00Y, SOCI00Y, SOCI00Y, SOCI00Y (when planning their course pattern students should take into consideration that some of the courses have a prerequisite, generally of an A-level course in the same discipline).
BIOL417 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. Lecturers 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 nervous system, function of the nervous system, evolution. Lectures and laboratory work. 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 WSC407Y.
Session: Winter Day

BIOL422 Basic Microbiology
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 animal 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 - 60%; laboratory - 40%.
Prerequisites: BIOL403
Session: Winter Day

BIOL435 Genetics / M. F. Flinn
A lecture and laboratory course in cytogenetics, with examples chosen from work on bacteria, fungi, Drosophila and viruses, 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, problem, discussion. Four hours of examination based on lecture and laboratory work, laboratory reports - approximately 70%, final examination - approximately 30%.
Prerequisites: BIOL403
Session: Winter Day

BIOL461 Plant Physiology / J. G. 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. Enzymes, Photosynthesis and respiration. Growth and development of plants. The objectives of this course is to introd numerous students in the science of plant physiology, and to provide a training in laboratory techniques and the use of biochemical knowledge 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.
Prerequisite: BIOL403
Session: Winter Day

BIOL494 Invertebrate Zoology / J. D. Williams
General survey of the invertebrate animals with emphasis on those groups of numerical, economic and medical importance.
The first term will deal with the non-arthropod phyla (Porifera, Cnidaria) 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 behavior of interesting groups. Living specimens and technical slides will be an important part of laboratories. Two one-hour lectures and three hours of laboratory work per week. One field trip. Written examination at end of first term - 20%; practical examination at end of first term - 20%; final written examination - 35%; final practical examination - 15%; one essay - 15%; laboratory reports - 10%.
Prerequisites: BIOL403
Session: Winter Day

BIOL495 Animal Population and Evolution / J. Campbell
A study of the process of beneficial changes in animal populations with special regard to population genetics, population dynamics and species diversity.
The lectures deal with genetic variation and its sources, natural selection, genetic drift, and modes of speciation. The laboratories 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 essay.
Prerequisite: BIOL403
Corequisite: BIOL405
Session: Winter Day

BIOL497 Fundamentals of Ecology / R. Brown
The course will deal with the scientific study of the interactions that determine the distribution and abundance of organisms. It will hopefully promote the development of an ecological conscience but will not be a course devoted to the problems of population and communities.
Factors limiting the distribution of species such as adaptation, behavior, and dispersal; attributes of populations: population extinction, 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; dynamics of communities: concept of the community, species diversity, community patterns and classification, succession and climax; concept of the ecosystem; function of the world; community energetics, community nutrition; other topics of general ecological interest including the human population problem, island biogeography, and systems analysis.
Prerequisite: BIOL405
Session: Winter Day

BIOL498 Plant Structure and Development / R. Dugger
This course deals with the structure and function of cells, tissues and organs in seed plants with emphasis on vegetative plant parts - roots, stems and leaves. Most laboratory periods will be the opportunity to gain first-hand experience with plant materials discussed in the lecture and test. A few laboratories are devoted to developing skills in plant microtechnique, and time is made available for each student to do an individual microtechnique project.
Specific topics include: embryo development, seedling development and development of roots, stems and leaves. Lecture and laboratory work. The bibliography for this course in Evans, K. Anatomy of Seed Plants. John Wiley, New York.
Prerequisite: BIOL403
Session: Winter Day

BIOL499 General and Comparative Physiology
The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (1) Body Fluids and circulation. (2) Locomotion and sensory balance. (3) Excitation of muscle and skeletal muscle physiology. The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (1) Tonic and autonomic balance. (2) Excitation of skeletal muscle. (3) Nerve and neurosecretory control, sensory integration, muscle and neuromuscular properties, sensory receptors and C.N.S., hormones. Lectures and laboratory work. Term tests, laboratory reports, final examinations.
Prerequisites: BIOL403
Session: Winter Day
BIOB128 Cell Ultrastructure / R. Dunkle, J. Youson
This cell biology course deals with current concepts of animal and plant cell ultrastructure and is concerned specifically with the basic structure, development, and function of cell organelles. Laboratory work emphasizes the interpretation of cell components as they appear in electron micrographs.
Topics include, (1) methods used in the biological application of electron microscopy; (2) cell membranes and cell surfaces; and (3) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc. Lectures and laboratories. Evaluation will be based on two laboratory examinations, one term paper, and one lecture examination.
Prerequisites: BIOB13 or BIOB24 or BIOB27
Session: Winter Day

BIOB21Y Comparative Vertebrate Morphology / A. Woolever, R. Webb and J.H. Youson
A lecture and laboratory course concerned with the structural diversity of the vertebrates. Emphasis is placed on the evolution, development and anatomical specializations of organ systems as they are related to the physical demands placed upon the organism by its environment.
Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to the anatomical and physiological diversity of the modern vertebrates are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories. Examinations on lectures (50%) and laboratory (50%) materials.
Prerequisite: BIO105
Session: Winter Day

BIOB22Y Developmental Biology / R. Dunkle
The study of morphological 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 unicellular to the multicellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. Limited enrollment: 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: echinoderms, lens development, hypothalamus, myogenesis, frog metamorphosis, and cancerogenesis. In the last half of the second term R. Dunkle discusses aspects of plant development. Some of the topics dealt with in this portion of the course are: composition of developmental mechanisms in plants and animals, morphogenesis of fertilized eggs in primitive and advanced plants, and the role of cell division and cell enlargement in the development of form. Lectures and laboratory work. Lecture and laboratory examinations.
Prerequisite: BIOA35
Session: Winter Day

BIOB27Y Comparative Vertebrate Histology / J. Youson
Examination of the histology of 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 in relation to development, evolution, and function. Each student will be required to do an individual microtechnique 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, muscle, nervous tissue, etc. Second term: the relationship of the above tissues to the organ systems (sensory, digestive, respiratory, excretory, reproductive, and circulatory 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 - 60 marks; Major laboratory report from project.
Session: Winter Day

BIOB39B Biogeography / G. Faas
A lecture-tutorial course on the fundamentals of animal and plant distributions, as related to ecological, historical and evolutionary factors. This is a terrestrial biogeography, i.e., the geography of angiosperms and vertebrates on land and in freshwater lakes. Field's reviewing the history of life on earth, continental drift will be discussed and as the distribution of extant life forms is concerned. Man's biogeographical history will be reviewed with emphasis upon man's effect on plant and animal distribution of the present. Floral kingdoms and faunal realms and regions will be identified. Lectures with films and slides; seminars. One or two field trips. Evaluation will be based on one essay, seminar and class participation. One final examination.
Prerequisite: BIOA01 or NSCA02
Session: Summer Day

BIOB45Y General Vertebrate Biology / A. Woolever
An integrative course on the vertebrates emphasizing comparative, evolutionary and physiological approaches; and centering attention on the life cycle to the evolving and dynamic and of study. Topics will include evolution, adaptation, diversity, zoogeography, comparative functional morphology and physiology; ethology, ecology and general bioligies; migrations, conservation, management. Course will consist of seminars, laboratories and some lectures on selected topics.
Prerequisites: BIOA35, BIOB22, BIOB17, BIOB11, BIOB12. BIOB12 useful but not required.
Corequisite: BIOB22
Session: Winter Day

BIOCHY Supervised Study in Biology 1 Members of Faculty
An independent study course designed to permit intensive examination of the literature of a selected topic or laboratory or field project in Biology. Supervision of the work is arranged by mutual agreement between student and instructor.
Exclusions: BIOCHY1, BIOB25
Prerequisites: Satisfactory completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses.
Session: Winter

BIOCHY Directed Research in Biology / Members of Faculty
Identical to BIOCHY but not to be taken with the same faculty member.
Exclusions: BIOCHY1, BIOB25
Prerequisites: Completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses.
Session: Winter

BIOCHY Quarternary Plant Ecology / J. C. Ritchie
An examination of the methodology, results and implications of pollen megafossil and other analyses of the paleoecological record of Quarternary sediments from the major regions of the world. Lectures, seminars and a laboratory with field work. Given in alternate years, starting 1974-75.
The history of the plant cover of the earth during the past several millennia, as reconstructed from pollen, seed and other primarily botanical evidence preserved in lake sediments, bogs, etc. From this factual record of vegetation change and development during and since the ice ages, environmental reconstructions should be attempted based on understanding of modern ecology.
Prerequisite: NSCA49; BIOB112
Session: Winter Day

BIOCHY Physiology and Biochemistry of Plant Growth and Development / G.F. Essential
A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development. Limited enrollment: 12.
The plant growth hormones and their mechanism of action, germination, dormancy, senescence, tropic response, growth mechanisms, nutrition and photosynthesis, flowering, fruiting. Biological clock mechanisms. It is hoped to provide an in-depth understanding and to review critically the processes of growth and development in plants. It should acquaint the student with current literature on the subject, via "critical review" providing a sound basis for possible future research in this field. Lectures and seminars. Evaluation will be based on essays and seminars.
Exclusion: BIOCHY1
Prerequisite: BIOI06
Corequisite: BJC015 recommended
Session: Winter Day
BIOC148  Ecological Methods I  R. Boonstra  
The course will deal with the biological application of statistics at a more advanced level. An introductory knowledge of statistics is assumed. The course is designed for students who hope to become graduate students, professional ecologists, or to work in related biological fields, such as forestry, fisheries, or wildlife.

Methods of data collection; methods of data analysis including such topics as sampling theory, population estimation, spatial distributions, experimental design, aerial counting, and life table analysis; the computing facilities will be used as a tool in data analysis through the use of packaged programs. Lectures, laboratories, and field work. Evaluation will be based on laboratory reports.

Prerequisites: BIOC12 and an introductory statistics course such as PSYB07, MATHB2, GGGB02, ANT164, ECUB1I, or the permission of the instructor.

Session: Winter Day (Sat., Evening)

BIOC166  Marine Biology I  J. D. Williams  
A lecture course in selected topics of marine biology. Topics will include origins of the ocean; waves, tides and currents; biotic marine expeditions; planktonic, intertidal, shallow and deep sea plants and animals and their adaptations; oceanic food chains, the structure of benthic communities and marine zoogeography; traditional aspects of marine nautical; fish and cetaceans harvesting versus aquaculture and conservation; marine pollution, and man in the sea. Two hours of lectures per week plus 2-weekly tutorials. Evaluation will be based on an essay and/or seminar, final examinations.

Prerequisite: BIOC98.

Session: Winter Day

COURSES NOT OFFERED IN 1979-80
BIOB157  Aquatic Ecosystems  
Prerequisite: BIOA40Y and at least one B-level Biology course

BIOB195  Biology of Macromolecules  
Prerequisite: BIOA40Y

BIOB247  Plant Kingdom  
Prerequisite: BIOA40Y

BIOB31F  Invertebrate Neurobiology  
Exclusion: BIOB247  
Prerequisite: BIOA40Y

BIOB41Y  Physiology of Microorganisms  
Exclusion: BIOB31F  
Prerequisite: BIOB247

BIOB47Y  Plant Biology  
Exclusion: BIOB31F  
Prerequisite: BIOB247

BIOC098  Field Course in Aquatic Biology  
Exclusion: BIOB247  
Prerequisite: BIOA40Y; BIOB157; permission of instructor

BIOC108  Photoproduction - Methods and Techniques  
Exclusion: BIOB31F  
Prerequisite: BIOB157

BIOC135  Environmental Biology of Fish Populations  
Exclusion: BIOB31F  
Prerequisite: BIOB247

BIOC135  Field Trip to Madagascar  
Prerequisite: BIOB99B, or permission of instructor and Chairman

CHEMISTRY

Staff members responsible for curriculum: T. Jack, P. Bruner, R. McClelland

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful tool through which we develop the resources of our contemporary society. The Chemistry Handbook for 1979-80, 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 CHMAM2, which must be taken by those who wish to take further Chemistry courses or who require Chemistry for another Science.

Completion of CHMAM1 or CHMAM2 permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry (CHMAM8), Analytical Chemistry (CHMAM6), Organic Chemistry (CHMAM10 or CHMAM8 and Physical Chemistry (CHMAM10). Thereafter, one can proceed to the following advanced-level courses: CHMAM11 (Inorganic), CHMAM12 (Physical), CHMAM11 (Organic), CHMAM12 (Analytical) and CHMAM5 (Biochemistry).

For those who wish to enrol subsequently in St. George 400-series courses, completion of the following groups of courses together with their co-requisites and prerequisites, will ensure admission to the St. George courses indicated.

Scotchburn Courses  St. George Series

CHMAM102; CHMAM11; CHMAM12; CHMAM11  430
CHMAM102; CHMAM11; CHMAM12  430
CHMAM102; CHMAM11; CHMAM12  440 (except 447)
(provide B standing or permission of the instructor is obtained)

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA01 or PHYA02 early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMAM102, CHMAM5 or CHMAM10 and PHYA01 or PHYA02.

Completion of one of the Major Programmes in Chemistry can lead directly to a wide spectrum of career opportunities in industry, research, teaching, and government. These programmes are described elsewhere in the Calendar. The most general of these is the Chemistry Major. The Chemistry and Biochemistry Majors emphasizes the biochemical aspects of chemistry, and the Chemical Physics Major is directed toward physical and theoretical chemistry. Students interested in these options are urged to consult with the faculty advisors early in their academic careers. Advisors are R. McClelland (Chemistry), A.J. Kope (Chemistry and Biochemistry) and P. Bruner (Chemical Physics).

Major Programme in Chemistry

Supervisor of Studies: R.A. McClelland

Students should complete the following fifteen required courses:

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

CHMAM102; Principles of Chemistry/Generic Chemistry
MATA26Y - Calculus
or
MATA40F, MATA45S and MATA5Y
PHYA01 - Classical Mechanics/Principles of Classical Physics
or
PHYA02

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Major Programmes in Chemical Physics

Supervisors of Studies: P. Brunet (Chemistry) and J.M. Pern (Physics)

This programme offers students interested in both Chemistry and Physics the opportunity to combine their studies in the Major. For the first two years the course of studies also satisfies the Chemistry major programme requirements.

Students should complete the following fifteen courses. They include two alternative mathematics programmes. The sequence in parentheses provides a rigorous mathematical development; the alternative sequence emphasizes techniques rather than rigor. Students starting in the MAT445Y sequence are urged to include MAT446F and MAT446S at some stage in their programme.

(1) In the first year of full-time study (or equivalent):
- C4H401Y/402Y Principles of Chemistry/General Chemistry
- PHY401Y or PHY402Y Classical Mechanics/Principles of Classical Physics
- MAT446F, MAT446S

(2) In the second and third years of full-time study (or equivalent) the following courses should be taken:
- C4H401Y/402Y or C4H403Y Principles of Chemistry/General Chemistry
- C4H404Y/405Y or C4H406Y Analytical Chemistry I or Analytical Chemistry II
- C4H444Y/445Y or C4H446Y Organic Chemistry I or Organic Chemistry II
- J4B401Y/402Y or J4B403Y Introductory Biochemistry
- J4B404Y/405Y or J4B406Y Laboratory in Biochemistry
- C4H404Y/405Y or C4H406Y Inorganic Chemistry I or Inorganic Chemistry II
- C4H407Y/408Y or C4H409Y Organic Chemistry III or Organic Chemistry IV
- MAT446F, or MAT446S

(3) In the fourth year of full-time study (or equivalent), four full courses must be taken, including a C4H440 series course on the St. George campus, a third-year Physics course (e.g. PHY401Y, PHY402Y) and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

Students are urged to consult with the Supervisor of Studies early in the programme.

NOTE: In addition to the courses noted above an additional Biology course is recommended.
CHIM420Y: Analytical Chemistry I / R.T. Hemmings
Introduction to qualitative and quantitative analysis involving classical volumetric and gravimetric techniques.
To introduce the principles and methods of chemical analysis and to provide practical experience in the techniques employed in the chemistry laboratory. Qualitative and quantitative analysis by wet chemistry techniques including gravimetric and volumetric procedures. 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, tests and problems.
Exclusion: CHIM312Y
Prerequisites: CHIM403Y or CHIM402Y
Other Recommended Courses: CHIM310Y
Session: Winter Day

CHIM421Y: Organic Chemistry I / Laboratory - J. Potter
The chemistry of the principal functional groups encountered in aliphatic and alicyclic 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 alicyclic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrate.
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 mark.
Exclusion: CHIM310Y
Prerequisites: CHIM403Y or CHIM402Y
Session: Winter Day

CHIM422Y: Physical Chemistry II / J. A. Waller
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. Huheey. The method of evaluation is problem sets 10%, two term tests 20%; laboratory 30%; final examination 40%.
Prerequisites: CHIM301, CHIM302 or CHIM304
Corequisites: CHIM305 if only CHIM304 obtained.
Session: Lectures: Winter Day
Laboratory: Fall Term or Spring Term, One Day

CHIM423Y: Physical Chemistry II / P. Bruneau
Quantum mechanics and its application to theories of atomic and molecular structure, and spectroscopy, bond, reaction, ionic and quantum statistical mechanics, statistical thermodynamics, theory of chemical kinetics and photochemistry. The laboratories associated with this course illustrates much of the physical theory and includes 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 microscopic systems. Finally, the basics of modern reaction dynamics will be introduced. The course structure is lectures, tutorials and laboratories. The method of evaluation is 75% (qualitatively) for two three-hour examinations, term paper, and problem sets and 25% for laboratory marks.
Prerequisites: CHIM301, CHIM304, or MAT400 and MAT405
Session: Lectures: Winter Day
Laboratory: Spring Term - One Day
CHMC447 | Organic Chemistry II | P. McCormand
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 prequisite for CHM448 (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 in-depth treatment of organic synthesis, stereochemistry, conformational analysis and reaction mechanisms; an introduction to polymers, photochemistry, heterocycles, peptides, carbohydrates, amino acids, nucleic acids and related biological macromolecules. The laboratory experiments are designed to complement the topics covered in lecture, 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 mid-year examination, a final examination, and a laboratory mark.
Exclusion: CHM447/54 St. George
Prerequisite: CHM346 or CHM348
Session: Winter Day

CHM346 | Analytical Chemistry II | R.T. Hammons
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: CHM402Y
Prerequisite: CHM344
Corequisite: CHM401Y
Session: Winter Day

CHM45Y | 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 200 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 the 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 mark is awarded on the quality of the written work and on an oral presentation.
Exclusion: CHM447/54H
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen courses and are pursuing one of the Chemistry Major Programmes.
Session: Summer Day, Winter Day

CHM45Y | Introduction to Research | Members of the Chemistry Faculty
Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 200 hours of effort.
The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research. The mark is awarded on the quality and quantity of work and on an oral presentation.
Prerequisite: Permission of Instructor
Corequisite: One of the advanced laboratory courses at St. George (CHM438F or CHM448F) except for students undertaking a project in Physical Chemistry.
Other Recommended Courses: Normally only for students following one of the Chemistry Major Programmes.
Session: Summer Day, Winter Day

CHM45Y | Library Thesis | Members of the Chemistry Faculty
Similar to CHM45 but representing 130 hours of work.
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 mark is awarded on the quality of the written work and on oral presentation.
Exclusion: CHM45
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen courses and are pursuing one of the Chemistry Major Programmes.
Session: Summer Day, Winter Day

CHM48S | Special Topics in Inorganic Chemistry | T. Jack, A. Walker
A selection of topics in inorganic chemistry. Recent developments are emphasized. The content of the course varies from year to year so students should consult with the faculty members involved as to the specific areas to be covered in a given year.
This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful. The course structure is two lectures per week. The method of evaluation is to be decided. This can be in the form of a final examination, an essay, seminar, tests or a research proposal. The specific form to be followed will be announced at the beginning of the course.
Prerequisite: CHM351
Session: Winter Day

CHM49S | Special Topics in Organic Chemistry | A.J. Kroeger, R. McClelland
A selection of topics in organic chemistry. Recent developments are emphasized. The content of the course varies from year to year so students should consult with the faculty members involved as to the specific areas to be covered in a given year.
Topics of current interest in organic chemistry are studied. The course structure is two lectures per week. The method of evaluation is to be decided. This can be in the form of a final examination, an essay, seminar, tests or a research proposal. The specific form to be followed will be announced at the beginning of the course.
Prerequisite: CHM351
Session: Winter Day

CHM48S | Special Topics in Physical Chemistry | P. Brunner, J.E. Drey, G.A. Keeney-Wallace
A selection of topics in physical chemistry in which recent developments are emphasized. The content of the course varies from year to year and in 1974-86 will focus on topics in quantum chemistry or theories of elementary chemical reactions. The course structure is two lectures per week. The tentative method of evaluation is one major paper and seminar presentation and literature research assignments.
Prerequisite: CHM432
Session: Winter Day
CLASSICAL STUDIES

Discipline Representative: M.E. Iwlo

A study of the Greek and Roman world is crucial to an understanding of western civilization. It is also an excellent area for the student who wishes to follow a programme involving different, but related, disciplines. Courses in Classics and Greek and Roman History explore the cultural significance of the ancient world, its literature, its religion, its social and political history. In these courses all the written material is handled in translation. But language is an important ingredient in this cultural complex. And for those who wish to see how this world at closer quarters, the courses in Greek and Latin provide an opportunity to learn the languages and to study the literary and historical texts in the original.

Classics may be combined with English in a major programme (see English and Classics), while Latin may be combined with a modern language (see Modern Languages and Literatures), and Greek with Philosophy (see Philosophy and Greek).

Although there is no major programme in Classics alone, students who wish to devote some part of their time to Classics should take at least three full courses (or equivalents) in the Greek or Latin language, one course in Ancient History (GHI) and other courses from those listed under Classical Studies.

Students interested in Classics should also refer to the following courses: many are taught by the faculty in Classics and most focus closely on the Greek and Roman world.

CL3225Y Art and Nature of Comedy
CL3421F Archais, Greek Sculpture
CL3421S Classical Greek Sculpture
CL3421T Painting in Ancient Egypt, Prehistoric and Classical Greece
HUMA11Y Greek and Roman Mythology
HUMB22F The Age of Pericles
HUMB22S The Age of Augustus
HUMB22T The Age of Nero
HUMB27F The Age of Homer
HUMB31S Women in Ancient Greece
JHEC31Y Seminar in Literary Theory and Practice
PHLB14F Plato and his Predecessors I
PHLB14S Plato and his Predecessors II
PHLB24F Aristotle and Later Greek Philosophy I
PHLB24S Aristotle and Later Greek Philosophy II

Major Programme in English and Classics
See page 89 of this Calendar

Major Programme in Latin and a Modern Language
See page 152 of this Calendar

Major Programme in Philosophy and Greek
See page 155 of this Calendar

CL32Y Greek and Roman Epic (first term); W. E. McLeod, second term; J. Warden
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; 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.


Session: Winter Day

CL32Y Greek and Roman Tragedy (M.T. O'Mara)
An exploration of the nature and intent of classical tragic drama, its conventions, historical origins and cultural context. All texts will be read in translation.

The course introduces students to the drama of Aeschylus, Sophocles, Euripides, and Seneca. Its objective is to foster an appreciation of the originality and power of ancient tragedy and its influence on the imagination and literature of the western world.

The greater part of the course will focus on the individual plays of Aeschylus, Sophocles, and Euripides. Insight into ancient perspectives on the nature of tragedy will be sought through reading and discussion of Aristophanes, Plautus, and Aristotelon, Poetics. Selections from Seneca's Roman tragedies will then be studied.

No knowledge of Greek or Latin or of the classical world is assumed. Evaluation will be by one test, one essay, and one report each term.

Session: Winter Day

CL32Z Christianity in the Greco-Roman World (M.E. Iwlo)
An examination of the relationship between Christianity with its Jewish origins and the Roman Empire. Some of the topics discussed will be a history of the relationship between the church and the state, persecution and martyrdom, rival religions, the development of Christian art and architecture, and the influence of Greek philosophy. We will read selections from writers of the first four centuries of the church and will also consider the pagan reaction.

A term test, an essay and a final examination will determine evaluation of the course.

Session: Winter Day
GREE302Y Roman History from the Gracchi to Nerva / J. E. B. Bodde
A study of the major events in a Roman society in transition, from the Gracchi to Emperor Nerva. The political, social and economic structures of the period are examined, as well as the role of the Roman army in expanding the empire.
Prerequisite: History 2021 or equivalent.
Sessional: Winter Day

GREE334S Ancient Historiography / J.R. McDonald
A study of the major Greek historians, Herodotus and Thucydides, and the major Roman historians, Livy and Tacitus. All authors' works will be read in translation. This course will provide an introduction to the study of ancient history.
Prerequisite: History 2051 or equivalent.
Sessional: Winter Day

GREE301Y and GREE302Y Students in Roman History: Roman Britain / J. E. B. Bodde
An examination of the development of Roman Britain. The course will cover the invasion and conquest of Britain by the Romans, the establishment of Roman rule, and the cultural and social changes that occurred.
Prerequisites: GREE301Y and GREE302Y.
Sessional: Winter Day

GREE301Y Introductory Greek / J. N. Grant
The basics of the language, with an emphasis on reading. This course is for students who wish to acquire a basic reading knowledge of ancient Greek. Evaluation will be based on regular class tests and a final examination.
Sessional: Winter Day

GREE304F 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.
Prerequisite: Greek XIII Greek or GREE304F.
Sessional: Winter Day

GREE365S Plato: Apology / M.E. Irwin
In addition to the text to be read there will be accompanying exercises to assist the student in further study of the Greek language.
The Apology, Plato's account of Socrates' defense against the charges of religious non-conformity and of corrupting the young, will be read in Greek. In addition to the reading of the text, the political, legal and social situations in Athens at the time of the trial will be considered.
There will be three one-hour meetings weekly at 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.
Prerequisite: GREE304F.
Sessional: Winter Day

GREE300F Supervisor Reading / Coordinator: M.E. Irwin
Reading of texts in Greek chosen by consultation between students and faculty.
Students who wish to enter the Greek Directed reading programme should enrol in any of the above courses. They should then contact the coordinator 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. Problems in the text will be discussed as well as the literary qualities and cultural context of the work being studied.
Prerequisite: GREE300F or demonstrated competence in reading classical Greek.
Sessional: Winter Day

LATAM1Y 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 the study of 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 slides to increase awareness of the cultural contexts.
The text is F.M. Wheelock, Latin, An Introductory Course based on ancient authors. Evaluation by final examination (50%), short quizzes and exercises (50%).
Sessional: Winter Day
LATOM5  Conatinia (I N. Grant
A selection of the works of Cato maior will be read. The influences which affect Cato, and his contribution to Latin poetry will be considered.

The material studied will be primarily the love poetry of Catullus but some of the invention works and one of the (long poems) will also be examined. The text used will be the edition of Kenneth Quinlan (Macmillan, 1979).
Evaluation will be based on two tests, one essay, and a term paper.
Prerequisite: LATAM6 or Grade 13 Latin
Semester: Winter Day

LATB515  Greek and Roman Religion
Prerequisite: LATAM7 or Grade 13 Latin
Semester: Winter Day

LATB601  Greek and Roman History from the Death of Alexander to the Gracchi
Prerequisite: LATB00 or any related GRH, CLA or HUM course
Semester: Winter Day

LATB507  Institutions of the Roman People
Prerequisite: LATB00 or any related GRH, CLA or HUM course
Semester: Winter Day

COMMERCE
Assistant Chairman: H. B. Biddle

COMMERC 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 classes 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 fifteen or twenty course degree (normally a B.A. degree) and may, if they wish, work towards completing the twenty course Major Programme in Commerce and Economics. Graduates of a fifteen or twenty course degree programme may be eligible for admission to graduate study in business or may seek employment in accountancy or pursue other industrial/commercial/governmental careers. A brochure describing summer/fall commerce courses is available from the Student Services Office (284-3192).

The College does not offer the Bachelor of Commerce (3. Comm.) 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 enrollment, 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.

Admission to graduate study in business towards the Master of Business Administration (MBA) degree is open to all qualified students (fifteen or twenty course degrees) regardless of the subjects or disciplines studied at the undergraduate level. Students contemplating graduate study should be well advised to include some courses in Commerce in their undergraduate programme. They should also consider strengthening their preparation for graduate work by taking courses in such areas as Economics, Mathematics, Computer Science, Sociology, Psychology and Anthropology.

Limited enrolment: Because of pressures of demand for places, it has been necessary to place enrollment limits on many Commerce courses. Under present College rules, preference is given to students with academic seniority, that is, with the greatest number of full course equivalents completed at the end of a previous winter session. Students who delay submitting their course selection forms until the end of the Summer may find many limited enrolment courses have been closed.

Prerequisites: Prerequisites will be strictly enforced for all Commerce courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to these courses.

In view of the many academic and career options available in the Commerce area, students are encouraged to seek the advice of the Supervisor of Students for Commerce (284-3315).

Other Commerce Courses
The following courses are listed under "Joint Courses" elsewhere in the Calendar:

JCEB454  Industrial Relations
JCEB727  Analysis for Decision Making I
JCEB730  Analysis for Decision Making II
JCEC302  Corporate Finance
JCEC405  Public Policy Towards Business
JCEB271  Organizational Behavior
COM304Y Financial Accounting / A. Sturrock (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.

Prerequisite: COM201
Session: Winter Day, Winter Evening, Summer Evening

COM306Y Management Accounting / H. Babik (Coordinator)
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 determination, allocation, 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: COM201
Session: Winter Day, Winter Evening

COM308Y Accounting Theory / H. Babik
An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation including the problem of charging price levels. Limited enrolment: 60

The course builds extensively on the material in COM201 and, to a lesser extent, COM206. Previous students should review 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 class participation will all be evaluated. A number of short quizzes will also be given.

Prerequisite: COM201
Session: Winter Day

COM315Y Marketing / J.T. Mitchell
Marketing management is concerned with those business decisions directly involved in the sale of goods and services. The course examines the theory of consumer behaviour and sources of market information as well as the traditional areas of product, price, promotion and distribution.
Limited enrolment: 60

A number of cases will be assigned for class discussion and written analysis. These cases, a term project and a Christmas final examination constitute the major elements of evaluation in the course.

Prerequisite: COM201
Session: Winter Day

COM317Y Income Tax
An examination of the broad principles of federal income tax in Canada and of all the detailed provisions involved in the taxation of business enterprises. Limited enrolment: 60

Evaluation will be based on a number of homework assignments, a mid-course test and a final examination.

Prerequisite: Completion of at least ten courses including COM204Y and ECO201Y
Session: Winter Evening

COM322Y The Legal Environment of Business / L.A. Torink, J. Feldman
An intensive examination of those aspects of the law that most directly affect the operations of a business. Limited enrolment: 60

Evaluation will be based on a number of homework assignments, a mid-course test and a final examination.

Prerequisite: Completion of at least ten courses including COM201 and ECO201Y
Session: Winter Day

COMMERCE COURSES NOT OFFERED in 1979-80

COM225Y Business Policy
Prerequisites: COM201; (COM275); (SOC275); JCB272; (COM202); COM303; JCE202

COMPUTER SCIENCE

Discipline Representative: R. Perrott

Computer Science is concerned with the use of computers to process information. A modern computer is expected to perform many different kinds of information: business accounts and records, scientific calculations for engineering and the physical sciences, natural language text for linguistics. Computer Science includes the identification of classes of problems that can be solved using computers, the study of ways of representing the relevant information in computer usable form, and the investigation of how to describe solutions best in terms of the operations that computers can perform.

A fundamental concept in Computer Science is the algorithm - a list of instructions which specifies the steps required to solve a particular problem. Two major concerns in Computer Science are the analysis of problems, frequently using the tools of mathematics and statistics, and the formulation of algorithms to solve particular classes of problems. Other areas of interest include the transformation of abstract algorithms into computer programs, and the testing and validation of algorithms and programs. Closely related to these areas are efforts to develop tools for designing better computers and for using them more effectively.

Course offerings are intended to serve a wide variety of students, ranging from those whose primary interest is in information systems development, as an area of increasing importance to business, industry and government. From this programme a student may continue with graduate study in Computer Science. If certain optional courses in Commerce, are taken in the third and fourth years, a student in this programme may qualify for advanced standing toward the MBA degree.
Students who wish to study computing primarily in order to use computer techniques in their own specialties should begin with CSC/CMF and CSC/M.S. JMC/CS/S is then available, too are CSC/208, 218F, and 300P, given on the St. George Campus.

Students who are anticipating a career in secondary teaching should select several courses from the following: CSC/209/359, MCS/245, 255, 330, 365, 315, 346, 354, 374, 376, 380, 530, and CSC/354/604 offered on the St. George Campus.

Students should also look at JMC/201 and-JMC/301 which are additional computer science courses.

Major Programme in Computer Science
Supervisor of Studies: R. Perrault

There are ten and a half courses required for the major programme in Computer Science. Note that the courses need not be taken in 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):
CSC/105, CSC/254, MAT/157, MAT/158, MAT/244, MAT/245

In the second year of full-time study (or equivalent):
CSC/205, CSC/227, CSC/236, (MAT/152 and MAT/153), MAT/246, MAT/247

In the third year of full-time study (or equivalent):
CSC/344, JMC/CS/S, MAT/446, MAT/447, MAT/457, MAT/458, MAT/459, MAT/460

In the third or fourth year of full-time study (or equivalent):
Two full courses to be chosen from the following options. Note that only CSC/440 and CSC/445 are available at Scarborough and can be taken in third year (or equivalent); the remaining courses must be completed at the St. George campus. Any two of CSC/440, 441, 442, 444, 446F, 449F, CSC/49B (including at least one of 49F and CSC/445), and any two of CSC/440, 441, 442, 444, 446, 448, 449F, 455, 475.

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.

Major Programme in Computer Science for Data Management
Supervisor of Studies: R. Perrault

There are thirteen courses required for the major 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):
CSC/105, CSC/254, MAT/157, MAT/158, COM/101, ECO/101

(2) In the second year of full-time study (or equivalent):
CSC/205, CSC/236, CSC/247, ECO/201, ECO/202

(3) In the third year of full-time study (or equivalent):
CSC/344, COM/104, MAT/246, MAT/247

(4) In the third or fourth year of full-time study (or equivalent):
Two and a half courses to be chosen from the following options. Note that JMC/201, MAT/346, and MAT/354 are offered at Scarborough, while the remaining courses must be completed at the St. George campus. Any two of MAT/240, 244, 344, 345, 346, 347, 348, 349, 351.

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

CSC/348/FHM Computer Programming / Members of Computer Science Faculty
Introduction to algorithms, computer organization and computer programming. Emphasis is on learning to program in a high level language. Various applications of computers will be discussed. (This course is intended for students who want to learn programming for use in their own area of interest.)

This course provides an introduction to computing. The purpose of the course is to introduce the student to algorithms and to acquaint him with the capabilities and limitations of the computer. The course can be roughly divided into two six-week sections. The first six weeks are spent learning PLI as an example of a programming language. This language is introduced as a tool for the precise specification of an algorithm. Its dual purpose, to communicate algorithms to both machines and human beings, is emphasized. In the second six weeks sample programs from several application areas are studied to demonstrate the variety of problems that are solved with the aid of the computers. The method of evaluation is a term test, a final exam, five assignments and several tutorial quizzes.

Exclusions: CSC/348, MAT/348, MAT/355
Prerequisites: One grade 13 course in Mathematics
Session: Winter Day, Winter Evening, Summer Evening

CSC/358 Introduction to Computation / Members of Computer Science Faculty
The specification and formulation of algorithms. Introduction to computer organization and assembly language. Programming in a high-level language such as PLI. Structured programming. Elementary applications.

The PL/2 programming language is used as a vehicle for the formulation and implementation of correct, local, and efficient algorithms for digital computers. Applications of programming techniques are considered. The course structure is two hours of lectures and two hours of tutorials per week. The method of evaluation is mid-term and final examinations, and five programming assignments.

Exclusions: CSC/348, MAT/348, MAT/355
Prerequisites: Grade 13 Functions and Relations, or Grade 13 Calculus
Corporalities: MAT/246 or MAT/440 or MAT/555
Session: Winter Day

CSC/348S Programming Applications / Members of Computer Science Faculty
A continuation of CSC/345. Practical approaches to solving problems involving data structures, non-numerical applications (graph theory, game theory), data processing, and numerical computation.

The course also covers recursive programming.

This course is a continuation of CSC/348 and it covers sample problems from several areas. Topics covered in this course include data structures, recursion, data processing, graph theory, game theory, and numerical computations. More emphasis is put on data structures and recursion.

Three weeks are spent on data structures where structures such as linked lists and trees are studied. The rest of the course is evenly distributed between the other topics. The method of evaluation is a one hour mid-term, a final examination, four or five assignments and bi-weekly tutorial quizzes.

Exclusions: CSC/348, MAT/348, MAT/355
Prerequisites: MAT/348 or MAT/350 or CSC/345 or CSC/355
Session: Winter Day

CSC/348S Problem Solving With Computers / Members of Computer Science Faculty
A continuation of CSC/345. The application of computers to various numerical and non-
numerical problems. Topics will include numerical methods, simulations, graph theory, data processing, and the utility of computer models.

Specific topics include: basic data structures, lists, stacks, queues, trees, graphs, recursive programming. Graph theory algorithms. Sorting and searching algorithms. Numerical methods. The course structure is two hours of lectures, and a two hour tutorial per week. The method of evaluation is mid-term and final exams, and about four programming exercises.

Exclusions: CSC/348, MAT/348, MAT/355
Prerequisites: MAT/348 or MAT/350 or CSC/355 and permission of instructor
Session: Winter Day
CS628S Programming Techniques for Data Processing
This course is intended to familiarize the role of the computer in the business environment. The emphasis will be on the design methodology of business computer systems, rather than particular applications.
Specific topics include: COBOL programming; the modular approach to program design including; decision tables, if applicable programming and data-driven logical; sequential file processing including; data validation, external sorting, generalized file processing systems. Some application will be examined and an overview of the role of mathematical modeling in the business environment will be given. The course structure is lectures and tutorials. The method of evaluation is two one hour quizzes, three programming assignments and three written assignments.
Exclusion: MAT1090
Prerequisite: MAT1408 or CSC6A8
Session: Winter Day

CSC860F Programming Languages and Their Applications
The syntax and semantics of various programming languages, including both algebraic and symbolic manipulation languages. Data structures. Numerical and non-numerical applications.
This course is intended to introduce students to a wide range of programming languages, their formal description, and their applications. The languages ALGOL, SNOROL, LISP will be discussed in detail, and their features will be compared. Other languages will also be discussed. The method of evaluation is a mid-term exam, a final exam and four or five programming assignments.
Exclusion: MAT1408
Prerequisite: MAT1408 or CSC6A8
Session: Winter Day

CSC92F Computer Organization
This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. No knowledge of electronics is necessary as gates are the basic building blocks that will be used.
Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogramming machine, basic data representation, assembly language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. The course structure is lectures and tutorials. The method of evaluation is two one hour quizzes and six homework assignments.
Exclusion: MAT1408
Prerequisite: MAT1408 or CSC6A8
Session: Winter Day

CSC84F Data Structures / J.C. Perrault
This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. No knowledge of electronics is necessary as gates are the basic building blocks that will be used.
Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogramming machine, basic data representation, assembly language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. The course structure is lectures and tutorials. The method of evaluation is two one hour quizzes and six homework assignments.
Exclusion: MAT1408
Prerequisite: MAT1408 or CSC6A8
Session: Winter Day

CSUC4F Problem-Oriented Languages and Interpreters
This course is designed to give students insight into the workings of a programming language processor. It will reinforce the use of formal languages in the specification of syntax and semantics for a programming language.
Specific topics include an overview of a language processor's lexical analysis, an introduction to the mathematical theory of syntax, basic concepts of syntactic and semantic analysis and parsing algorithms, specification of semantics and code generation, the run-time organization of the language processor, storage allocation. The SNOROL and ALGOL-W language processors will be used as a source of examples. The course structure is lectures and assignments. A series of assignments will result in the students building their own compiler/interpreter. The method of evaluation is two one hour quizzes and six written or programming assignments.
Prerequisite: CSC128, CSC137, CSC6B8
Session: Winter Day

CO-OPERATIVE PROGRAMME IN ADMINISTRATION
This Programme is designed for those students who intend to seek careers in administration, primarily in the public sector. Graduates from the Programme receive a twenty-course B.A. (Specialist in Administration). The basic principle of cooperative education is that a combination of academic studies and work placements can result in a richer educational experience and contribute substantially to preparation for careers after graduation.
The Programme combines eight four-month terms of study at Scarborouogh College with four terms of work experience. Work placements are normally made in the public sector and these are arranged by the Coordinating Office of the Programme. The admission of work-term reports and satisfactory performance in placements is a requisite for continuation in the Programme.
All students enrolled in the Programme are required to take a core of six full-course equivalents. Thereafter five advanced options are available (Political Policy Analysis: Economic Policy Analysis; Social Policy Analysis; Urban and Regional Policy Analysis; Program Management). The core of three courses includes one additional full-course equivalent. It should be noted that, with the exception of Urban and Regional Policy Analysis, the choice of an advanced option need not be made until the completion of four study terms.
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.
Further information may be obtained from the Co-ordinator of the Programme in Administration (288-3171) or Student Services (288-3202).

A. Core courses: ten full course equivalents, to be selected as follows:
1. Behavioural Foundations (two full course equivalents)
   a. Organizational Behaviour
   b. Political Behaviour
   c. Psychology and Politics
   d. Topics in Political Leadership
   e. Sociology
   f. Industrial Sociology
   g. Sociology of Occupations and Professions

- Organizational Behaviour
- Political Behaviour
- Psychology and Politics
- Topics in Political Leadership
- Sociology
- Industrial Sociology
- Sociology of Occupations and Professions
II Public Policy Development and Evaluation (four and one half full course equivalents)

Required:
- ECOA01Y Introduction to Economics
- ECOB01Y Price Theory
- POLA01Y Canadian Government and Politics
- POLB01Y Public Administration

one of:
- ECOB21F Economics of the Public Sector: Expenditures
- ECOB25F Public Policy Making

III Humanities (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:
- COMM01Y Financial Accounting
- COMM01Y Management Accounting

at least one half full course equivalent from:
- ECOB11F/S Quantitative Methods in Economics
- ECOB12E Quantitative Methods in Economics: Applications
- GGRB20Y Analytical and Quantitative Methods in Geography
- MATH102F Probability and Statistics I
- MATH107S Probability and Statistics II
- PSYB05R Data Analysis in Psychology
- PSYB90R Experimental Design in Psychology
- SOC207F Social Statistics

B. Advanced options:

1 Political Policy Analysis (three full course equivalents)

a) two full course equivalents from:
- POLA35Y Public Policies in Canada
- POLC36F Administrative Politics
- POLL11Y Policy Development
- POLL21Y Organized Interests and the State

b) one half full course equivalent from:
- POLL11Y Government and Politics in Ontario
- POLL25F Intergovernmental Relations

c) at least one full course equivalent from:
- ECOB20Y Macroeconomic Theory and Policy
- ECOB21S Quantitative Methods in Economics: Applications
- ECOB211 Economics of the Public Sector: Taxation
- ECOB25F Public Policy Making
- ECOB415 Industrial Organization

II Economic Policy Analysis (three and one half full course equivalents)

a) Required:
- ECOB20Y Macroeconomic Theory and Policy

b) one and one half full course equivalents from:
- ECOB31S Economics of the Public Sector: Taxation
- ECOB32F Economics of the Public Sector: Expenditures
- ECOB415 Industrial Organization
- JCEC40F Policy Towards Business

c) one full course equivalent from:
- POLA35Y Public Policies in Canada
- POLC36F Administrative Politics
- POLL11Y Policy Development
- POLL21Y Organized Interests and the State

III Social Policy Analysis (three full course equivalents)

a) Required:
- SOCB81Y Methods in Social Research
- SOCB83Y Urban Sociology
- SOCCM1Y Social Theory

b) at least one full course equivalent from:
- SOCB23Y Population
- SOCC77S Sociology of Occupations and Professions
- SOCC78S Sociology of Law and Law Enforcement
- SOCC11FS Industrial Sociology
- SOCC221D Quantitative Methods in Social Research
- COMM01Y Marketing

c) one full course equivalent from:
- POLB31Y Public Policies in Canada
- POLC36F Administrative Politics
- POLC36S Policy Development
- POLL21Y Organized Interests and the State

IV Urban and Regional Policy Analysis (four full course equivalents)

a) Required:
- GGRB21Y The Nature of Human Geography
- GGRB21Y Urban Geography
- GGRB21Y Introduction to Regional Science

b) one full course equivalent from:
- ECOB47S Urban Economics
- POLB31Y Urban Politics
- POLC36F Administrative Politics
- POLL11Y Policy Development
- POLL21Y Organized Interests and the State
- SOCCM1Y Urban Growth and Planning

V Programme Management (three and one half full course equivalents)

a) two full course equivalents from:
- COMC01Y Marketing
- JCEC31Y Corporate Finance
- JCEC32Y Analysis for Decision Making I
- JCEC33F Analysis for Decision Making II

b) one half full course equivalent from:
- POLC36F Administrative Politics
- POLL21Y Organized Interests and the State

c) one full course equivalent from:
- ECOB41F Industrial Organization
- JCEC40F Public Policy Towards Business
- SOCC77S Sociology of Occupations and Professions
- SOCC78S Industrial Sociology
- CSIC55F Computer Programming
- CSIC55F Introduction to Computing
- CSIC65S Programming Applications
DRAMA

Director, Representative: M. Schonberg (L.L. Browne 1979-80)

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 up 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 are specialists in these areas.

Advanced students may choose one or more of the Independent Studies courses or Directed Reading courses where they work individually under the supervision of their own tutors.

The practical program consists of courses in which the students become acquainted with all the aspects of the 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. Students wishing to major in drama are advised to consult with M. Schonberg, the co-ordinator of Drama studies.

Major Programme in Drama

Superintendent of Studies: M. Schonberg (L.L. Browne 1979-80)

A student is required to complete at least ten full-course equivalents in the arts of dramatic literature and theatre.

The following five courses comprise the core of the programme:

DBR80Y The History of Theatre I
DBR80Y The History of Theatre II
ENG81Y Varieties of Drama
ENG82Y Modern Drama

In addition, the student must take at least one of the following courses:

DBR82Y Advanced Practical Workshop and Elements of Directing
DBR82Y Individual Studies in French Drama
DBR82Y Individual Studies in German Drama
DBR82Y Individual Studies in Italian Drama
DBR82Y Individual Studies in Russian Drama
DBR82Y Individual Studies in Spanish Drama

DBR85Y Directed Reading Courses

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

The remaining four or more courses may be chosen from the following:

CL80Y Greek and Roman Tragedy
DRB80Y The Directors' Theatre
DRB80Y The Art and Nature of Comedy
DRB80Y The Theory and Practice of Improvisational Theatre: Commedia dell' Arte
ENG82Y English Poetry and Drama 1600 to 1800
ENG82Y Shakespeare
ENG82Y English Drama to 1642
ENG83D English Drama in Canada: 1920-1960
ENG85D French Drama of the Eighteenth Century
FRE82F French Theatre of the Early Modern Period
FRE82F Contemporary French Theatre: The Theatre and the Absurd
FRE82F The Theatre of French Canada
FRE84D/5 The Playwrights of the Golden Age
GER84Y The Development of German Drama (in translation)
GER83F/6 German Drama (9th-20th Century Drama)
GER83F/6 German Drama (17-19th Century Drama)
GER82F German 18th Century Drama and Poetry
G85D/G86D/7 Medici and the Italian Theatrical Age
ITA81F/2 Italian Drama of the 19th Century
ITA81F/2 Italian Eighteenth Century Theatre
ITA81F/2 Italian Nineteenth Century Theatre
ITA81F/2 Introduction to Drama
SPA82F/5 Spanish Drama

DRAB81Y An Introduction to the Practical Elements of Theatre / L.L. Browne

An introduction to the practical elements of theatre.

In the workshops the student will study basic acting techniques (treatments of voice, movement, script interpretation, building a character) and will, as well, be introduced to such technical skills as lighting, sound, makeup, set construction and painting. In addition, the student will be expected to participate in at least one public production event.

The workshops are designed to provide the student with an orientation to the theatre as a professional activity. The student will be encouraged to develop his own creative abilities and to consider the social and political meaning of the plays he sees. The student will be evaluated on the basis of two essays and two exams.

Session: Winter Day

DRAB82Y The History of Theatre I / L.L. Browne

A study of the non-literary aspects of theatre from the pre-Hellenistic period to the end of the 18th Century. Areas of concentration will include classical Greek and Roman theatre; with special emphasis on the Hellenistic period, Western European Medieval dramatic traditions; the impact of the commedia dell'arte on European theatre, the Elizabethan and Jacobean drama; the theatre of the Baroque; Neo-classicism. Acquaintance with representative plays of the various periods will be required.

Representative plays from each of the major theatrical periods up to the 18th C. will be discussed with a view to the staging practices, acting styles, costume conventions, audience expectations etc., of that particular period.

Attention will also be paid to the social and political milieu from which the plays arise. There will be two one-hour lectures weekly and tutorials. The text for the course will be History of the Theatre By Ottilie Brackett. Representative plays will be annotated. The student will be evaluated on the basis of two essays and two exams.

Session: Summer Day

DRAB82Y Medieval and Early Tudor Drama: The Texts and Their Production / D. DeMatter

The drama of Medieval and Early Tudor England: the liturgical beginnings, the religious musical dramas of the 13th century, the cycle plays, saint's plays, conversion plays, miracles and humanist dramas.

Session: Summer Day

DRAB81Y Advanced Practical Workshop and Elements of Directing / L.L. Browne

This course is designed to enable advanced students to concentrate on problems related to the staging and direction of plays as seen in contemporary productions. A portion of the course is given to work with TV/video tape equipment.

A minimum of three hours weekly in formal groups, and additional time in rehearsal, will be devoted to advanced exercises in acting skills, ensemble, and work on productions.

The text for the course will be Curtis Canfield's The Craft of Directing, published by Holt, Rinehart and Winston.

The marking system for the course will be credit/non-credit, and the student will be evaluated continuously throughout the course. Lab fee $15.00

Prerequisite: DRAB81Y

Session: Winter Day

DRAB81Y Individual Studies in French Theatre and Drama in Translation / L.L. Browne

Individual studies will be under the supervision of members of the French section.

The course is designed primarily for students majoring 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 section, and the supervisor of Drama studies.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as advisor rather than processor.

Prerequisites: At least ten full-course equivalents, two of which must be DRAB81Y and DRAB82Y. This course is intended for students majoring in Drama who are not sufficiently fluent in French/German/Italian/English to read the works in the original language. Permission of Drama Co-ordinator required.

Session: Winter Day
ECONOMICS
Assistant Chairman: M. W. Bugrovsky
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 program: the introductory course (ECO101), the initial "first-year" courses - price theory I and II (ECO102, ECO103) and national income (ECO105), at least one among courses that provide a different perspective either on contemporary economic theory, or as ways of organizing economic activity - economic history (ECO106), the literature of economics (ECO503, ECO504), comparative economic systems (ECO600). A student who wishes to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science and, most important of all, Mathematics (especially Calculus, Probability, 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 their advisors, to plan their program of study carefully.

There were massive changes in the numbering system in Economics in 1975-76 compared with earlier years. In general, the titles have remained the same, so that students should not take, in 1975-76 or beyond, the same course that they took before 1975-76. The exclusions are shown below.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number in 1975-76</th>
<th>Number in 1975-76 and Beyond</th>
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<tbody>
<tr>
<td>National Income and the National Economy</td>
<td>ECO102</td>
<td>ECO105</td>
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<tr>
<td>North American Economic History</td>
<td>ECO103</td>
<td>ECO104</td>
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<tr>
<td>European Economic History</td>
<td>ECO106</td>
<td>ECO107</td>
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<td>Economics of Public Sector</td>
<td>ECO108</td>
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<td>Taxation</td>
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<tr>
<td>Expenditures</td>
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<tr>
<td>Economic Development</td>
<td>ECO114</td>
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<td>Comparative Economic Systems</td>
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<tr>
<td>Money and Banking</td>
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<tr>
<td>International Economics</td>
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<tr>
<td>Finance</td>
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<tr>
<td>Trade Theory</td>
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<tr>
<td>Labor Economics</td>
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<tr>
<td>Urban Economics</td>
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<tr>
<td>International Organization</td>
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<tr>
<td>Urban Economics</td>
<td>ECO132</td>
<td>ECO133</td>
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<tr>
<td>Macroeconomic Policy</td>
<td>ECO134</td>
<td>ECO135</td>
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<tr>
<td>Literature of Political Economy I</td>
<td>ECO136</td>
<td>ECO137</td>
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<tr>
<td>Literature of Political Economy II</td>
<td>ECO138</td>
<td>ECO139</td>
</tr>
<tr>
<td>Analysis for Decision Making</td>
<td>ECO140</td>
<td>ECO141</td>
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</tbody>
</table>

Major Programme in Economics
Supervisor of Studies: R. Sanders

The major programme in Economics requires a heavy concentration in the discipline. A major programme may not be advisable for all students. Students who are interested in Economics in and other areas of study should refer to the Economics course descriptions.

The programme is designed for students considering employment in fields where a knowledge of economic theory and a sound 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.

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DRAC117 Individual Studies in German Theatre and Drama in Translation / L.L. Browne Individuals will study under the supervision of members of the German section.

This course is designed primarily for students studying in Drama who have adequate knowledge of the German 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 section, and the supervisor of Drama studies.

In this course the emphasis will be on the students' individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisites: Same as for DRAC10

Session: Winter Day

DRAC117 Individual Studies in Italian Theatre and Drama in Translation / L.L. Browne

Individuals will study under the supervision of members of the Italian section.

This course is designed primarily for students studying in Drama who have adequate knowledge of the Italian 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 section, and the supervisor of Drama studies.

In this course the emphasis will be on the students' individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisites: Same as for DRAC110

Session: Winter Day

DRAC140 Individual Studies in Spanish Theatre in Translation / L.L. Browne

This course is intended for students in the Major 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 section, and the supervisor of Drama studies.

In this course the emphasis will be on the students' individual initiative, with the faculty member acting as tutor rather than lecturer.

Prerequisites: Ten full course equivalents and permission of programme co-ordinator

Session: Winter Day

DRAC217-24V Supervised Reading Courses / L.L. Browne

This is an advanced reading course for drama students. The student wishing to take this course should consult with M. Schorpenberg, coordinator of drama program, who will arrange in cooperation with the student a reading list and the specific requirements for the course.

The emphasis in this course will be on advanced individual projects exploring specific areas of the history of theatre, and/or dramatic literature. Proposals by students for specific projects will be assessed by the Coordinator of Drama studies in consultation with other members of faculty.

For 1975-80 please submit proposals to L.L. Browne. Evaluations will be based on written submissions which will be agreed upon by the student and the instructor at the beginning of the course.

Prerequisites: One Brief course in Drama, and permission of instructor.

Session: Winter Day

COURSES NOT OFFERED in 1975-80

DRAB10Y The Directors' Theatre

DRAB10Y The History of Theatre II

DRAB10Y The Art and Nature of Comedy

JHBD12Y Introduction to Cinema

DRAC140 Individual Studies in Russian Theatre and Drama in Translation
Students must complete at least nine full courses (or equivalents) in Economics, and must complete the following specific courses: ECON350Y or ECON355F, MAT542Y or MAT542Y or MAT543Y, ECON360F and ECON360S or ECOB30Y, ECOB350F and ECOB350S or ECOB350Y, ECOB354F or ECOB354S or ECOB354Y, ECOB357F or ECOB357S or ECOB357Y, ECOB351F or ECOB351S or ECOB351Y, ECOB353F or ECOB353S or ECOB353Y, ECOB355F or ECOB355S or ECOB355Y, ECOB356F or ECOB356S or ECOB356Y, ECOB357F or ECOB357S or ECOB357Y, ECOB359F or ECOB359S or ECOB359Y.

Four C-level courses in Economics, one of which must be EOCO315F or EOCO415 and one of which must be taken from the Workshops in Economics.

Students are urged to take ECOM401Y, ECOM402Y, ECOM403Y, and either MAT542Y or MAT543Y or MAT543Y in their first year of full-time study (or equivalents). The courses in Mathematics, particularly MAT542Y or MAT543Y, are recommended as preliminary to ECOM300F, which is an important course in the second year of full-time study (or equivalents). ECOM317F should be included in the first ten courses taken.

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

Major Programme in Economics and Commerce

Please refer to "Commerce and Economics".

Major Programme in Economics and Political Science

Supervision of Studies: R. Saunders

Six full course equivalents are required in each of the two disciplines. The specific courses required are listed below. In addition, mention is made of courses in other disciplines that complement the major programme. Any student interested in the programme should consult the Supervisor of Studies in Economics or Political Science by the end of their first year.

Required courses in Economics:

ECON150Y ECON155F ECON155S ECON253Y
Recommended courses in Economics (at least one from each of A, B, and C)

A: ECON254F or ECON254S or ECON255F or ECON255S
B: ECON256F or ECON256S
C: ECON257F or MAT253F or MAT253S and B757

Required courses in Political Science:

POL504Y POL505Y (POL506Y or POL507Y)
POL508Y (POL509Y or POL510Y)
Recommended courses in Political Science: fifteen additional courses from at least two of the five categories below. Alternative courses in political theory or Canadian government may be acceptable if chosen with the advice and concurrence of the Supervisor of Studies.

A: Public Administration - POL506Y, POL507Y, and 515, POL518Y
B: Political Behaviour - POL508Y, POL509Y, POL510Y, POL511Y
C: International Relations - POL508Y, POL510Y, POL511Y, POL512Y
D: Comparative Politics, Industrialized Countries - POL506Y, POL507Y, POL510Y, POL512Y
E: Comparative Politics, Developing Countries - POL504Y, POL505Y, POL506Y, POL507Y, POL508Y, POL509Y, POL510Y, POL511Y, POL512Y

Related courses in other disciplines:

MAT542Y or MAT543Y, ECOM401Y, ECOM402Y, ECOM403Y,

Macroeconomic Policy

An examination of public policies for influencing and controlling the level of national income, employment, and the price level.

Examinations: ECOM305F and ECOM305S
Session: Summer Evening

Quantitative Methods in Economics 1 Staff

An introduction to basic statistical methods and their applications to economic problems.

Examinations: ANT414, GES4202, PY5107
Note: MAT152 should not be taken prior to or at the same time as ECOB11.
Session: Winter Evening

ECON316F

ECON317Y

Introduction to Economics 1 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

Intermediate level development of the principles of microeconomic theory. The primary emphasis is on static partial equilibrium analysis. Topics include theory of the consumer, theory of production, theory of the firm.

Examinations: ECOM401Y
Prerequisite: ECOM471
Session: Summer Day

Price Theory 1 (G. M. Seal)

Intermediate level development of the principles of microeconomic theory. The primary emphasis is on static partial equilibrium analysis. Topics include theory of the consumer, theory of production, theory of the firm.

Examinations: ECOM401Y
Prerequisite: ECOM471
Session: Summer Day

Price Theory 2 (G. M. Seal)

A continuation of Price Theory 1 and includes theories of perfect competition, market imperfections, factor prices, general equilibrium analysis and welfare economics.

Examinations: ECOM401Y
Prerequisite: ECOM401Y
Session: Winter Day, Winter Evening

Price Theory 3 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.

Examinations: ECOM401Y and ECOM402Y
Prerequisite: ECOM401Y
Session: Winter Day, Winter Evening

National Income and the National Economy

An exposition of macroeconomic theory with detailed discussion of the theory of output, unemployment, and the price level, and of techniques for achieving economic stability. There is also some discussion of Canadian financial institutions and markets, and of the relationship between international exchanges and the domestic price level and employment.

Examinations: ECOM307F, ECOM308Y
Prerequisite: ECOM301
Session: Summer Evening

Macroeconomic Policy

An examination of public policies for influencing and controlling the level of national income, employment, and the price level.

Examinations: ECOM307F
Prerequisite: ECOM301
Session: Summer Evening

Macroeconomic Theory and Policy 1 Staff

An exposition of macroeconomic theory with detailed discussion of the theory of output, employment, 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.

Examinations: ECOM301Y and ECOM306S
Prerequisite: ECOM301Y
Session: Winter Day, Winter Evening

Quantitative Methods in Economics 1 Staff

An introduction to basic statistical methods and their applications to economic problems.

Examinations: ANT414, GES4202, PY5107
Note: MAT152 should not be taken prior to or at the same time as ECOB11.
Prerequisite: ECOM471
Session: Winter Day, Winter Evening
ECO8125 Quantitative Methods in Economics: Applications I Staff
A continuation of ECO811 for students interested in applications of quantitative methods. Topics to be covered are statistical decision theory, multiple regression analysis and input-output tables. Calculus is strongly recommended.
Prerequisite: ECO811, CSCA58 or CSCA58
Session: Winter Day

ECO8280 Literature of Political Economy I J.F. Bladen
A study of the classical literature of Political Economy: especially selections from the works of Adam Smith, Malthus, Ricardo, J.S. Mill.
Prerequisite: ECO8401
Corequisite: ECO803, 3007
Session: Winter Day

ECO8281 Literature of Political Economy II J.W. Blacken
A study of classical literature of Political Economy: especially selections from the works of Marx, Jevons, Marshall and Keynes.
Prerequisite: ECO8401
Corequisite: ECO803, 3007
Session: Winter Day

ECO8315 Economics of the Public Sector: Taxation M. Bartoszkowski
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.
Prerequisite: ECO803
Session: Winter Day

ECO8325 Economics of the Public Sector: Expenditures M. Bartoszkowski
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditure. 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.
Prerequisite: ECO801
Session: Winter Day

ECO8335 Public Decision Making M. Kroschitzky
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.
Prerequisite: ECO8401
Session: Summer Day

ECO8341 Industrial Organization R. Saunders
The economic function of firms in a market environment. The aim is to study business behaviour and public policy with respect to advertising, concentration, competition, price-setting, etc.
Prerequisite: ECO801
Session: Winter Day

ECO8345 Poverty and Income Distribution M. Gadersten
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, severance pay, labor market development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.
Prerequisite: ECO803
Session: Winter Day

ECO8475 Urban Economics
Economic analysis is applied to contemporary urban problems. Topics discussed include housing and urban renewal, poverty and income maintenance, education, metropolitan organization of urban areas.
Prerequisite: ECO803
Session: Winter Day

ECO8815 Labour Economics M. Gandersten
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 unemployment; the impact of regulations and the wage-price employment trade-offs; the impact of institutional constraints such as unions, furloughing, minimum wages, wage parity, sex discrimination, occupational licensing, unemployment insurance, wage subsidies and negative income tax plans.
Prerequisite: ECO803
Session: Winter Day

ECO8415 International Economics: Finance
Balance of payments, equilibrium and departures from it; 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.
Prerequisite: ECO803
Session: Winter Day

ECO8416 International Economics: Trade Theory
An analysis of the factors upon which a country's trade with other countries is based and the welfare implications of this trade. Free trade and protectionism. The optimum tariff. The theory of factor proportions: the economics of customs unions and regional economic integration. Canada and the development of the European Economic Community; tariff bargaining. The Canada-U.S. Auto Pact.
Prerequisite: ECO803
Session: Winter Day

ECO8446 Economic Development
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: ECO803
Session: Winter Day

ECO8466 Comparative Economic Systems
A course designed to introduce students to alternative ways of organizing economic activity - utilizing resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a historical perspective; the rest will be devoted to studies of particular economics, especially Canada, the Soviet Union and Yugoslavia.
Prerequisite: ECO803
Corequisite: ECO803
Session: Winter Day

ECO8817 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 of economic change in the two countries.
Prerequisite: ECO803
Session: Winter Day
ECO82v 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 experience of Britain and other European countries and the growth of the nineteenth century world economy. Particular attention is paid to institutional 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.
Prerequisites: ECO101
Session: Winter Day

ECO80s The Economics of J.M. Keynes / L. Tedds
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 analyzed.
Prerequisites: ECO80u, ECO87
Session: Winter Day

ECO87f The Economics of Karl Marx / J. Cohen
A study of Marx's approach to economic theory and economic history. Discussion will center on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.
Exclusion: ECO82s
Prerequisites: ECO80u, ECO87
Session: Winter Day

ECO11f Supervised Reading / Staff
Prerequisites: Permission of Instructor
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

ECO12s Supervised Reading / Staff
Prerequisites: Permission of Instructor
Session: Winter Day, Winter Evening

ECO13f Advanced Microeconomic Theory
An upper level extension of the ideas studied in ECO82s. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, and uncertainty.
Prerequisites: ECO80v, ECO87v, ECO11s, MATA22 or MATA26 or MATA55
Session: Winter Day

ECO14s Advanced Macroeconomic Theory
Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories and the use of macroeconomic models.
Prerequisites: ECO80v, ECO87v, ECO11s, MATA22 or MATA26 or MATA55
Session: Winter Day

ECO15f and ECO16b Topics in Advanced Economic Theory
The student majoring in economics must take at least ten and not more than fifteen courses in this area. The course is optional for students in the Master's Program in Economics.
Prerequisites: ECO13f or ECO14f or Permission of Instructor
Session: Winter Day

ECO12f, ECO12s, ECO12v Workshop in Economics ECO12w, and ECO12v Workshop in Economics
The workshops deal with detailed problem areas in economics. They have been designed for the first time. They will be on microeconomic and macroeconomic topics, respectively. Topics will be specified in depth. They will be taught by faculty members.
Prerequisites: ECO80s, ECO87, MATA22 or MATA26 or MATA55. For ECO12w and ECO12v, ECO13f or MATA55 will be a prerequisite.
Session: Winter Day

COURSES NOT OFFERED in 1979-80
ECO17f
ECO18f
ECO19f
ECO20s Workshop in Economics
Prerequisites: ECO80u, ECO87v, MATA22 or MATA26 or MATA55. For ECO19f and ECO20s, ECO13f or MATA55 will be a prerequisite.

ENGLISH
Discipline Representatives: A. Thomas
English Studies encompasses English, Canadian and American literatures and, to a limited extent, other literatures in English. Emphasis is placed on close responsive critical reading; clarity of expression; and the development of the powers of criticism and judgment. Students who intend to specialize in English atScarborough may take either the Specialist Certificate of the Department of English or the Scarborough Major Programme in English. The requirements for both are given below.

Note to First Year Students: A-level courses in English are designed to provide a basic training in literary criticism. For those who want a more general course in English the following B-level courses are available without prerequisite: B67, B68, B10, B11, B14, B15.

Major Programmes in English
Supervisor of Studies: A. Thomas
The student majoring in English must take at least ten and not more than fifteen courses in English in a twenty-course degree programme. One course should be taken from each of the following categories:

1. (1) ENGB10 or ENGB11
   (2) ENGB12 or ENGB13
   (3) ENGB14 or ENGB15
   (4) ENGB16 or ENGB17
   (5) ENGB18 or ENGB19
   (6) ENGB20 or ENGB21
   (7) The equivalent of a full course in English at the C-level

Students are encouraged to focus their attention on an aspect of English literature by taking one of the following course clusters or another grouping shown in consultation with a faculty advisor: ENGB12/ENGB13, ENGB14/ENGB15, ENGB16/ENGB17, ENGB18/ENGB19, ENGB20/ENGB21, ENGB22/ENGB23, ENGB24/ENGB25, ENGB26/ENGB27, ENGB28/ENGB29, ENGB30/ENGB31.

Specialist Certificate of the Department of English
Supervisor of Studies: A. Thomas
Students may also choose to take at Scarborough College the Specialist Programme offered by the University Department of English, which requires at least ten and not more than fifteen courses in English in a twenty-course degree programme, including one course from each of the following categories:
ENG4B0Y English Literature: Forms and Approaches / The Staff in English
An introduction to the study of literature through works representative of the three major literary forms (lyric, poetry, and prose fiction) and through an examination of methods that have been developed for gaining a fuller understanding of literary works.
Emphasis in the course is on the careful reading of texts representing these three forms; there will also be instruction in the writing of critical essays and in using the basic tools of literary research.
Teaching methods may vary slightly from section to section, but will include formal instruction and discussion. Methods of evaluation vary from section to section, but all students will be asked to submit written work in total of 7,500-10,000 words and to write a three-hour final examination.
Prerequisite: ENG4B0Y or ENG4B1Y
Co-ordinator: P. Jackson
Session: Winter, Summer

ENGB37Y Canadian Literature in English: An Introduction / J. M. R. Marquiss

A study of a wide range of Canadian literature, including works by novelists, such as Callaghan, MacLennan, Lawrence, Grover, Dorion, Buckler; poets, such as Lampman, D.C. Scott, Klein, Pratt, Birney, Avins, etc.; playwrights such as Riis, 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; however, 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.

The text will be announced.

Enrolment: ENGB 05
Session: Winter Day

ENGB38Y American Literature: An Introduction / J. Key

ENG304Y  Fiction 1900-1950  / M. Creelman
An advanced study of twelve novels, with particular attention given to developments in fictional form and in the theory of the novel.
The early 20th century was a period of innovation and experiment in the novel. Through a detailed study of about 12 major works, this course examines the relationship between new concepts in philosophy and psychology and new ways of writing novels. Attention will be given to important debates between novelists concerning fictional form, and certain readings will be assigned in the theory of the novel. Texts include James, The Ambassadors; Bennett, The Old Wives' Tale; Conrad, Nostromo; Ford, The Good Soldier; Joyce, A Portrait...; Lawrence, Women in Love; Woolf, To the Lighthouse; Forster, A Passage to India; Faulkner, Absalom! Absalom! Students are expected to do some reading in advance and use materials listed in the Booklist.
Evaluation: based on two seminars, two tests, and a term essay.
Prerequisites: ENG364H, ENG404H, ENG414H, ENG417H, ENG427H
Session: Winter Day

ENG506Y  Studies in Nineteenth Century Literature  / H. Jackson
This course investigates special topics in nineteenth century literature. In 1979-80, the topic for the course will be "the Romantic context." In seminar sessions, students will study major novels, poems, prose texts and possibly plays of the early nineteenth century in the lively context of the political, social, and literary debate from which they emerged and to which they contributed.
Note: Students who have studied eighteenth-century literature (ENG404H or ENG417H) may be admitted with the permission of the instructor.
Prerequisites: Three English courses, one of which must be ENG305H, ENG306H, or ENG316H
Session: Winter Day

ENG509Y  Studies in Twentieth Century Literature  / K. Thor
This course investigates special topics in twentieth century literature. Limited enrolment: 15.
In 1979-80, the topic for the course will be "a Chaotic Context." Taking Eliot's depiction of modern man in "The Waste Land," as our point of departure, we will be studying recurrent concerns and techniques in the work of D.H. Lawrence, James Joyce and Virginia Woolf. Texts will include The Rainbow, Women in Love, A Portrait of the Artist As a Young Man, Ulysses, To the Lighthouse, The Waves.
Students will be responsible for leading seminar discussions once each term, and writing one major essay as well as doing some shorter assignments.
Prerequisites: Normally three English courses; at least one of which must be: ENG308H, ENG312H/ENG313H
Session: Winter Day

ENG606Y  Problems in Later Shakespeare  / A.J.G. Pattrick
Textual and editorial, as well as aesthetic and dramatic problems in later Shakespeare. Limited Enrolment: 15
Primary texts are Pericles, Cymbeline, A Winter's Tale and The Tempest; the New Arden edition of each is preferred. Each student will develop a topic during the term which will be reported on in a seminar, before being prepared as a written paper at the end of the term. The group will be travelling to Stratford to see University's King Lear in October. An annotated Reading List will be available in May.
Prerequisites: Three English courses, of which one must be ENG610H or ENG612H.
Session: Winter Day

ENG615Y  Paradise Lost  / A.J.G. Pattrick
A close reading of Milton's poem. Limited Enrolment: 15
Topics for discussion in the weekly meetings will be determined; students are expected to develop and complete one major essay.
Prerequisites: Normally B+ standing in three English Courses
Session: Winter Day

ENG614Y  Senior Essay
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 previous Spring a brief statement of the area of the project, signed by the supervisor, is to be sent to Professor Alan Thomas. By November 15th a more specific statement of the project is to be sent to Prof. Thomas 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 Department, a second reader will be appointed.
Prerequisites: Open only to students completing the last five courses for the twenty-course degree who have at least three courses in English, at least one at B-level.
Session: Winter Day

ENG615Y  Comprehensive Examinations  / A. Thomas
English C1:Y courses is a full course in the student's program. It will take the form of a reading course under the direction of an advisor.
Each student will design his course in consultation with his advisor. 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 already be familiar with many if not all the authors through his work in other courses, and the role 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 advisor.
Prerequisites: Normally three English courses; at least one at B-level.
Session: Winter Day

COURSES NOT OFFERED IN 1979-80

ENG70S Y Romantic Poetry
Prerequisite: One course in English

ENG317F S Drama in English Canada: 1920-1970
Prerequisite: One course in English

ENG315F S The Canadian Short Story

ENG212Y Contemporary Literature in English: West Indies, India, Africa and Australia
Prerequisite: One course in English

ENG291Y African Literature in English
Prerequisite: One course in English

ENG210Y Modern Drama
Prerequisite: One course in English

ENG301Y Advanced Studies in Browning and Other Old English Poetry
Prerequisite: ENG301H

ENG310Y Studies in Middle English Language and Literature
Exclusion: ENG303H
Prerequisites: Normally three English courses, one of which must be: ENG301H, ENG302H, ENG308H

ENG314Y Studies in Renaissance Literature
Prerequisite: Normally B+ Standing in ENG306H and in two other courses in English.

ENG315Y Studies in Restoration and Eighteenth Century Literature
Prerequisite: Normally three courses in English, one of which must be: ENG314H, ENG317H
Limited enrolment: 15 per section
FINE ART

Discipline Representative: R. Siegelhoff
Studio Representative: D. Holman

The Fine Art Curriculum offers courses in the two complementary fields of Art History and Studio.

The courses offered in Fine Art History deal primarily with the development of the arts in the West from Classical times to the present day. The Studio program provides opportunities for a first-hand acquaintance with materials, forms, methods and concepts of the visual arts.

Students are encouraged to take relevant courses in other disciplines, such as are listed below, in order to enhance their background knowledge and to become familiar with a variety of views of Fine Art.

Students in Studio Courses are required to meet part of the cost of materials; they will be required to pay $35.00 for materials for each half course.

Recommended Courses outside the Discipline:

HIS407Y The European World: An Introduction to History
HUM380Y Orphans: The Quest of Beauty
HUM325F The Age of Pericles
HUM325S The Age of Augustus
HUM325F The Age of Homer
HUM317Y Introduction to Cinema
PHIL303 Art, Architecture and Philosophy

Major Program in Fine Art

Supervisor of Studies: M. Gerbers and D. Holman

Students must complete at least ten full-course equivalents in Fine Art:

1. One and one-half full-course equivalents chosen from the Classical and Medieval periods.
2. One and one-half full-course equivalents chosen from the Renaissance and Baroque periods.
3. Two full-course equivalents chosen from Modern and Canadian Art.
4. Free studio courses (one 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.

Major Programmes in Fine Art History

Supervisor of Studies: M. Gerbers

Students must complete at least ten full-course equivalents in Fine Art, to include:

1. FARA07Y or FARA09Y
2. One from each of the following areas: Classical, Medieval, Renaissance, Baroque, Modern
   a. 1775-1905 Modern II: 1905 to the present and Canadian, U.S.A.
   b. Two full-course equivalent C-level courses in Art History
   c. One extra course on B or C level in any area of Art History.

Major Programmes in Fine Art Studio

Supervisor of Studies: D. Holman

Students must complete at least ten full-course equivalents in Fine Art Studio and any two full-course equivalents in Fine Art History. The courses in Fine Art Studio must include:

1. FARA80F and FARA81F
2. FABA12FS; FABA12FS; FABA12FS; FABA12FS; FABA12FS; FABA12FS
3. Three and one-half B-level full-course equivalents chosen from the following: FABA14FS; FABA14FS; FABA14FS; FABA14FS; FABA14FS
4. Two C-level full-course equivalents.

Students wishing to specialize in either painting or printmaking are advised to select three 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 strongly advised to balance their Fine Art Studio with the following Art History courses: two full-course equivalents in the History of Art.

The following courses are highly recommended for students majoring in Fine Art Studio:

PHIL109F, PSY390F, SOC185S.

FARA90Y Aspects of Western Culture from the Renaissance to Modern Times / R. Siegelhoff

The course concerns itself with painting, architecture, sculpture and the applied arts in order to highlight the changes that have taken place in the cultural environment.

Examples from the major artistic styles (Renaissance, Baroque, Modern Movements, etc.) will be analysed from different points of view such as form, content and meaning. Aspects of the traditional values and the innovative nature of the works of art will be discussed. Preference will be given to those monuments which present the different artistic media as a unit, such as St. Peter's Church in Rome or the Palace of Versailles and its gardens. Two hours of lectures per week with class participation encouraged. Term examination (30%) and two research papers (15% each). Bibliography will be provided.

Session: Winter Evening

FARA91F Two and Three Dimensional Design / J. Houghton

FARA91Y and FARA91F are introductory to all studio courses; their primary aim is to help students cultivate a familiarity with basic terms, concepts and principles in visual design. Limited enrollment: Three groups of 20 each.

This course will introduce the student to the basic principles of design and show how these principles are used in both Fine Art and the environment. There will be lectures, demonstrations and group critiques dealing with the formal and technical problems of design. The student will work in class and will be given weekly assignments related to that work. There will be trips to Art Galleries.

Evaluation is based on weekly assignments and work done in class. Three hours per week.

Exclusion: FARA81F

Session: Winter Day, Winter Evening
FARR24 Medieval Art, IV to XIV Century J. M. Garsters
A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will involve consideration of architecture, sculpture, painting, illustration, and the minor arts.

The object of this course is to familiarize students with European artistic traditions from their origins in an early Christian, Mediterranean context, through their development under the influences of classical, Byzantine, Muslim and pagan forms, to the triumphant creation of an entirely new iconographic and stylistic language of expression which determined the nature of renaissance art. Readings are from F. Kitzinger, Early Medieval Art; R. Krautheimer, Early Christian and Byzantine Architecture; O. Grabar, The Formation of Islamic Art; R.S. Bruce-Mitford, The Italian High Renaissance; C. Cizik, Northern Painting; S. Stubbins, Giotto; the Arena Chapel Frescoes. Term tests 50%, paper 50%, class 20%.

Session: Winter Evening

FARR25 Studies in the High Renaissance - Michelangelo G. Sciacca
A survey of his activity in architecture, sculpture and painting. Study will focus on major cycles and monumental works like the Sistine ceiling, the tomb of Julius II, the Medici tombs.

Session: Winter Evening

FARR26 Expressionist Trends in Western Art from Van Gogh to Jackson Pollock / Information will be available at a later date to Room R208
An examination of such major figures among so-called Expressionist painters as Van Gogh, Ensor, Munch, the Fauves, Klee, Kandinsky, Kokoschka and Pollock. These painters’ work will be studied within a chronologically, beginning with the late nineteenth century. Classes will meet for two-hour slide lectures each week. Students will write one essay and one examination, the relative importance of each to be determined at the beginning of the term.

Bibliography will also be discussed early in the term.

Session: Winter Day

FARR27 The Arts in Northern Europe ca. 1400-1550 / R. Siebelhoff
A study of the “Northern Renaissance” concerned with the emergence of the Burgundian Netherlands as a cultural unit. The course will emphasize the development of painting from the Van Eyck to Bosch against a background of patronage from court and city. The few lectures will deal with the geographical and topical situation of the Burgundian lands around 1400 and will proceed with a historical survey of the area during the 16th century including aspects of the interaction between Flanders and Northern France. Then the origins of Northern Renaissance painting will be explored by looking at some of the major manuscript workshops preparing the stage for the period painters. The ultimate orientation of the material will be problem centered evaluating the contributions on documentary, stylistic and iconographic grounds while attempting to present the works of art of the different artists in an acceptable chronological order. Two hours of lectures with visits to A.G.O., R.O.M. Examination (50%), two term papers (35% ea.), term papers (35% ea.).

Sessions: Winter Day

FARR28 Early Renaissance in Florence, 1400 to 1460 G. Sciacca
A survey of the major achievements of Florentine artists, along with a brief introduction to Renaissance culture.

The course is designed for Art History students as well as for the general student interested in the period, i.e. students in History or in the European literatures. Two hours of classroom lectures per week. The evaluation based on one paper and one examination (at least 30%); Bibliography will be provided.

Session: Winter Day

FARR29 Colour / E. Hootonston
An analysis of the properties, perception and interaction of colour within the context of the fine arts. Limited enrollment: Three groups of 20 each.

This course will introduce the student to the relativity of colour and show, through in-class work, the methods of controlling colour effects. There will be lectures, demonstrations and group critiques dealing with the problems of colour. The students will work in class with pigments and coloured paper and will be given weekly assignments related to that work. There will be trips to Art Galleries. Evaluation is based on weekly assignments and work done in class. Three hours per week.

Session: Winter Day, Winter Evening

FARR30 Archival Greek Sculpture (650-480 B.C.) F. M. Show
A study of the evolution of Greek sculptural forms up to the classical period.

The course follows the technical and artistic development of Greek monumental sculpture from its early phases in the late 7th century B.C. through its maturation in the Archaic phase (650-480 B.C.). The sculptural production of this period consists of statues of youths and maidens, usually dedicated to sanctuaries; low relief in stone; architectural sculpture, which adorned the exteriors of temples and other important buildings. Even though early, due to circumstances of preservation, this phase is well represented by original works, in contrast to later Greek Sculpture known largely through Roman copies.

There will be a two-hour weekly session during which representative sculptures will be analyzed.

Session: Winter Day

FARR31 Classical Greek Sculpture (480-300 B.C.) / F. M. Show
A study of the evolution of Greek sculptural forms up to the classical period.

This course follows the technical and artistic developments of Greek Sculpture during its Classical phase (480-300 B.C.). Sculptural activity will be viewed as far as possible within its cultural context. Thematically and chronologically, this course is a sequel to FARR25 Archaic Sculpture, but use will be taken independently. The sculptures examined consist of statues in marble and bronze, pottery reliefs, as well as architectural sculpture which decorated the exterior of most Greek temples and some other important buildings. There will be a two-hour weekly session during which representative sculptures will be analyzed technically and stylistically by means of lectures illustrated by slides.

Session: Winter Day

FARR32 The Arts in Northern Europe ca. 1400-1520 / R. Siebelhoff
A study of the “Northern Renaissance” concerned with the emergence of the Burgundian Netherlands as a cultural unit. The course will emphasize the development of painting from the Van Eyck to Bosch against a background of patronage from court and city. The few lectures will deal with the geographical and topical situation of the Burgundian lands around 1400 and will proceed with a historical survey of the area during the 16th century including aspects of the interaction between Flanders and Northern France. Then the origins of Northern Renaissance painting will be explored by looking at some of the major manuscript workshops preparing the stage for the period painters. The ultimate orientation of the material will be problem centered evaluating the contributions on documentary, stylistic and iconographic grounds while attempting to present the works of art of the different artists in an acceptable chronological order. Two hours of lectures with visits to A.G.O., R.O.M. Examination (50%), two term papers (35% ea.), term papers (35% ea.).

Session: Winter Day

FARR33 Early Renaissance in Florence, 1400 to 1460 / G. Sciacca
A survey of the major achievements of Florentine artists, along with a brief introduction to Renaissance culture.

The course is designed for Art History students as well as for the general student interested in the period, i.e. students in History or in the European literatures. Two hours of classroom lectures per week. The evaluation based on one paper and one examination (at least 30%); Bibliography will be provided.

Session: Winter Day

FARR34 Colour / E. Hootonston
An analysis of the properties, perception and interaction of colour within the context of the fine arts. Limited enrollment: Three groups of 20 each.

This course will introduce the student to the relativity of colour and show, through in-class work, the methods of controlling colour effects. There will be lectures, demonstrations and group critiques dealing with the problems of colour. The students will work in class with pigments and coloured paper and will be given weekly assignments related to that work. There will be trips to Art Galleries. Evaluation is based on weekly assignments and work done in class. Three hours per week.

Session: Winter Day, Winter Evening

FARR35 Archival Greek Sculpture (650-480 B.C.) F. M. Show
A study of the evolution of Greek sculptural forms up to the classical period.

The course follows the technical and artistic development of Greek monumental sculpture from its early phases in the late 7th century B.C. through its maturation in the Archaic phase (650-480 B.C.). The sculptural production of this period consists of statues of youths and maidens, usually dedicated to sanctuaries; low relief in stone; architectural sculpture, which adorned the exteriors of temples and other important buildings. Even though early, due to circumstances of preservation, this phase is well represented by original works, in contrast to later Greek Sculpture known largely through Roman copies.

There will be a two-hour weekly session during which representative sculptures will be analyzed.

Session: Winter Day

FARR36 Classical Greek Sculpture (480-300 B.C.) / F. M. Show
A study of the evolution of Greek sculptural forms up to the classical period.

This course follows the technical and artistic developments of Greek Sculpture during its Classical phase (480-300 B.C.). Sculptural activity will be viewed as far as possible within its cultural context. Thematically and chronologically, this course is a sequel to FARR25 Archaic Sculpture, but use will be taken independently. The sculptures examined consist of statues in marble and bronze, pottery reliefs, as well as architectural sculpture which decorated the exterior of most Greek temples and some other important buildings. There will be a two-hour weekly session during which representative sculptures will be analyzed technically and stylistically by means of lectures illustrated by slides.

Session: Winter Day

FARR37 The Arts in Northern Europe ca. 1400-1520 / R. Siebelhoff
A study of the “Northern Renaissance” concerned with the emergence of the Burgundian Netherlands as a cultural unit. The course will emphasize the development of painting from the Van Eyck to Bosch against a background of patronage from court and city. The few lectures will deal with the geographical and topical situation of the Burgundian lands around 1400 and will proceed with a historical survey of the area during the 16th century including aspects of the interaction between Flanders and Northern France. Then the origins of Northern Renaissance painting will be explored by looking at some of the major manuscript workshops preparing the stage for the period painters. The ultimate orientation of the material will be problem centered evaluating the contributions on documentary, stylistic and iconographic grounds while attempting to present the works of art of the different artists in an acceptable chronological order. Two hours of lectures with visits to A.G.O., R.O.M. Examination (50%), two term papers (35% ea.), term papers (35% ea.).

Session: Winter Day

FARR38 Early Renaissance in Florence, 1400 to 1460 / G. Sciacca
A survey of the major achievements of Florentine artists, along with a brief introduction to Renaissance culture.

The course is designed for Art History students as well as for the general student interested in the period, i.e. students in History or in the European literatures. Two hours of classroom lectures per week. The evaluation based on one paper and one examination (at least 30%); Bibliography will be provided.

Session: Winter Day
FARB740 Intermediate Drawing / D. Holman
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 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 of the drawings done for projects, drawings done from the models, and the sketchbook(s).
Prerequisites: FARB70
Session: Winter Day

FARB757 Introduction to Painting / J. J. Hoogstraten
An introduction to principles and techniques of painting. Emphasis is on understanding a medium's special characteristics so that artistic expression may be enhanced. No previous experience necessary in all the media to be investigated, as the purpose of this course is to encourage exploration and experimentation in different media. Limited enrolment: 20
This is an introductory course designed to expand the student's concepts of painting and painting. Three hours per week of studio work including group and individual critiques, plus trips to art galleries. Evaluation is based on class participation, studio work and work done outside of the studio.
Exclusion: (FARB757)
Prerequisites: FARB70; FARB71; Permission of Instructor
Session: Winter Day

FARB767A Intermediate Painting I / J. J. Hoogstraten
A course designed for the student already competent in the use of materials. Limited enrolment: 15.
Section: Summer Day - Summer Arts Programme
(See Special Programmes Brochure available in Registrar's Office, Student Services, and Divisional Office.)

FARB770 Advanced Lithography / D. Holman
An introduction to stone lithography etching printing involving a detailed investigation of printing techniques. Limited enrolment: 15.
The content of the course will include working demonstrations and lectures explaining and demonstrating the various aspects 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 mark will be based upon evaluation of the actual work completed in the Studio. Lab Fee $30.00.
Prerequisites: FARB70; FARB71; FARB72 or Permission of Instructor
Session: Winter Day

FARB823 Intermediate Lithography / D. Holman
An expansion of FARB82. Limited enrolment: 10.
The objective of the course is to further explore the art of Stone Lithography in multi-colour printing. The content method, and evaluation is the same as FARB82. Lab Fee $30.00.
Prerequisites: Normally 'B' standing in FARB82
Companion: FARB74
Session: Winter Day

FARB844 Introduction to Etching / J. O. Tavischuk
An introduction to Etching and relief printing exploring the use of materials and techniques involved in the process of creative Fine Art Painting.
Section: Summer Evening - Summer Arts Programme
(See Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office.)
FARC24F Independent Studies in Studio: Advanced Level / D. Holman
These courses may be in any of the fields of drawing, painting, and printmaking. Limited enrollment: 5 students.
Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for students who can demonstrate the need to pursue independent study in one of the above areas. Students are required to meet with the instructors at appointed times; however they are expected to work independently.
Prerequisites: FARAM6, FARA71; at least one B-level course in the field of study; a portfolio demonstrating proficiency in the field; permission of instructors which is based on the evaluation of the portfolio.
Session: Winter Day

COURSES NOT OFFERED in 1979-80

FARAMY The Making of Art
FARM1FS Romanesque Art
Corequisite: FARAM4
FARM2IS Renaissance in Italy
Corequisite: FARAM4
FARM13F Art of the First Half of the Nineteenth Century
Corequisite: FARAM4
FARM14S Art of the Second Half of the Nineteenth Century
Corequisite: FARAM4
FARM17Y Baroque Painting in The Netherlands
Prerequisite: FARAM6
FARM20Y The Arts in Canada 1679 to Present
Corequisite: FARAM4
FARM25FS High Gothic Architecture
Corequisite: FARAM4
FARM26Y Art of the Twentieth Century
Corequisite: FARAM4
FARM28FS Early Christian and Byzantine Art
Corequisite: FARAM4
FARM30F Crete and Mycenaean World
Prerequisite: One Fine Art History term course or GRH00
FARM35FS Greek and Roman Art
Corequisite: FARAM4
FARM40F Monuments and Topography of Republican Rome 509-27 B.C.
Prerequisite: FARM28F or GRH00
FARM41S Monuments and Topography of Imperial Rome 27 B.C.-337 A.D.
Prerequisite: FARM40F or GRH00
FARM42Y Painting in Ancient Egypt, Prehistoric and Classical Greece (Fourth Millennium to end of First Century B.C.)
FARM43Y Renaissance in Europe 1300-1600
Exclusion: FARM8, FARE46
Prerequisite: FARM46
FARM44Y Baroque in Europe, 1600-1750
Exclusion: FARM8, FARM17
Prerequisite: FARM46
FARM39F Studies in the High Renaissance I
Prerequisite: FARM20Y or FARM26Y
Corequisite: FARM1Y
FARM10F Classicism in Seventeenth Century Art
Prerequisite: FARM27
FARCF16

Art Around 1900
Prerequisite: FARCF13 and FARE145. A reading knowledge of French or German is recommended but not required.

FARCF19

‘Realism’ in XV Century Painting
Prerequisite: FARE195 or FARE197.

FRENCH

Discipline Representative: C. Jennings

The courses offered in French are designed primarily for students with Grade 13 French who wish to continue their study of the language and of the literature of France and French Canada. Students without Grade 13 French or an equivalent background who wish to qualify for FREA01, or simply to begin their study of the subject, will find opportunities in FREA00 (Winter Session), and in the program of the Summer Language Institute. FREA00 serves to consolidate the previous experience of students in the understanding and use of the language.

Courses in the French language are now available in three distinct modes:

a) The regular programme, offered during the Winter session, which provides language instruction on a three to four hour per week basis (FRM, AR10, B10Y and CMY).

b) The intensive programme, available in both Fall and Spring terms, which provides intensive instruction using innovative approaches. This program, a full credit course may be taken during one term (ARA, AY10, and B, BSY). This program is designed to allow students to reach rapidly a level of competence in French which will facilitate further university studies.

c) The immersion programme available in the Summer term. This program is described in detail in the College Summer Programmes Calendar.

Providing prerequisite requirements are met, courses may be combined in a variety of ways. However, students intending to pursue a Major Programme in French are invited to consider taking both FREA01 and FREA02 in their first year; or, if they enroll in the intensive programme, to combine FREA01, FREA02 and FREA02Y. Then, they may choose courses from within the following groups: (1) the main trends of French and French Canadian literature; (2) the genres, poetry, theatre and novel in various periods; (3) advanced language; (4) language practice courses.

Students should also consult the Major Programme entries under French and under Modern Languages and Literatures in the College Calendar.

Students intending to pursue their studies in French on the graduate level are advised that a "knowledge of Latin" is required by the Graduate Department of French of the University of Toronto and by most graduate departments of French.

Major Programme in French

Supervisor of Studies: W. J. Bancroft

Students should complete at least ten full course equivalents, including

(1) the sequence FREA01, B10, CMY, except where exemption is granted for special proficiency;
(2) one full course equivalent in the area of French linguistics, stylistics, translation or history of the language;
(3) one full course equivalent in literature, at least one of which should deal with a period prior to 1800 and one with a period after 1800;
(4) four full course equivalents at C-level (or from the 300 and 400 series courses offered on the St. George Campus);
(5) It is recommended that the student include in his programme one full course equivalent from the FRESQ107 and CRW series Supervised Readings involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2), (3) and (4) above).

The following courses are not to count toward a Major Programme:

(1) more than two A-level FRL courses;
(2) five of FREA06, A11, A12, B11, B12, B14;
(3) more than two courses from the series FREA42 to 499, offered on the St. George Campus.

The student's overall programme must be approved by the French Discipline and registered with the Supervisor of Studies before completion of the tenth course.

FREA00A

Introductory French / W. J. Bancroft and Staff

This course is designed to enable students to begin or to continue their study of the French language with a view to entering FREA01 in a subsequent year. Intensive laboratory and classroom instruction in written and oral French. The course is not normally open to students with Grade 13 French or to native French speakers.

Basic skills in comprehending and using spoken and written French will be emphasized.

The intensive section will meet eight hours per week, two hours per day, for the first term. Techniques of relaxation currently in use in Eastern and Western Europe will be used to accelerate the learning process.

The prescribed text and workbook have not yet been chosen; details will be available in May 1979.

The final mark is based on performance in a Final Examination of three hours (1/3 of total) and on a Term Mark (2/3 of total mark). Term work will include written and oral exercises, compositions, term tests.

Prerequisite: Permission of Instructor

Session: Winter Term

Summer Day (see SLL Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).

FREA00B

Introductory French / J. Maguire and Staff

This course is designed to enable students to begin or to continue their study of the French language with a view to entering FREA01 in a subsequent year. Intensive laboratory and classroom instruction in written and oral French. The course is not normally open to students with Grade 13 French or to native French speakers.

Basic skills in comprehending and using spoken and written French will be emphasized.

Four class hours and one language laboratory hour per week will be devoted to the course content. Techniques of relaxation currently in use in Eastern and Western Europe will be used to accelerate the learning process.

The prescribed text and workbook have not yet been chosen; details will be available in May 1979.

The final mark is based on performance in a Final Examination of three hours (1/3 of total) and on a Term Mark (2/3 of total mark). Term work will include written and oral exercises, compositions, term tests.

Prerequisite: Permission of Instructor

Session: Winter Term

Summer Day (see SLL Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).

FREA01/A

Preparation for University French Studies / J. J. Kendris (40/a), C. Jennings (40/b)

This course provides all students with opportunities to improve their language skills by means of readings, written compositions, oral classes, phonetics, and work in the language laboratory. Not open to native speakers of French.

This is an intensive course designed to bring students to the level of entering B10Y in two terms 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 design. There are also two laboratory periods a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation. For students planning to major in French, FREA02 is recommended.

Prerequisite: Grade XIII French or FREA00 or equivalent.

Session: AY10 Fall Day, A110B Spring Day

Summer Day (see SLL Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).
FREN104 Intermediate Conversation I | Information will be available at a later date in Room H332A.

Intensive practice in spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of such major regional variants as that 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 matters and contemporary topics.

One-hour weekly for learning, 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. Participation and tests: 40%; oral project: 30%; final oral exam (fluency, quality of vocabulary and grammar, pronunciation): 30%.

Prerequisite: FREN101
Session: Full Day
Summer Day (see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).

FREN105 Intermediate Conversation II | Information will be available at a later date in Room H332A.

A continuation of FREN104. For course description, see FREN104.
Prerequisite: FREN104
Other Recommended Courses: FREN200 and, preferably, FREN405.
Session: Spring Day
Summer Day (see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).

FREN200 French Civilization: The Vision of Man | C. Evans

This course is a study of French culture as it developed through the ages and of its basic features in present times. It will deal with social, economic, historical and artistic issues. Literary and other texts will be used for their cultural content.

Fims and slides will be shown to supplement and illustrate the lectures. Each student will be given the opportunity to concentrate on a specialized topic such as "France since 1870", "The history of education in France", "Women in France", "French film" etc.

This course will provide an overall understanding of French culture which could be useful to students wishing to undertake literary studies but will also be valuable to students in other fields.

The class will meet for an hour twice a week for lectures and student presentations. Students will be expected to make short class presentations and write one major research paper. There will be mid-term and final exams. Bibliography will be available in Room H332A.

Prerequisite: FREN101
Session: Winter Day

FREN204 French Thought and Literature in the Age of Enlightenment (1715-1789) | C. J. Cartier

This course provides a general introduction to French Literature of the eighteenth century and the philosophical concepts which so often inspired it.

The course deals largely with the marriage of "literature" and "ideas" characteristic of the period. It includes works by the philosophers Montesquieu, Voltaire, Rousseau and Diderot, and by the novelists Prevost and the dramatist Beaumarchais.

Two hours a week are devoted to lectures, discussion and student presentations where possible.

The final mark is based on two essays, two term papers, and student contributions to class. Weighting will be determined in consultation with students.

Prerequisite: FREN101
Session: Winter Evening
FREN626Y The Romantic Current in French Literature / C. Jennings
Analysis of romance in 19th century literature, with attention to the main writers of the period.
Some introductory lectures will be devoted to exploring the origins of French Romantism, the spread of Romantism in Europe, historical events and social changes which contributed to the formation of the Romantic Movement. The remainder of the course will alternate between lectures, discussions and analyses of specific works by prominent authors from the first half of the 19th Century.
The course will meet for two hours per week. Evaluation will be based on four essays, two term tests, two oral presentations and class participation. A complete bibliography will be distributed at the first day of class.
Prerequisite: FRE540I
Session: Winter Day

FREN628 French-Canadian Novel in 1955 / L.E. Ducroquet
A study of French-Canadian novels from the mid-19th century to the end of the Second World War. Course intended for the general student of French, as well as for specialists. Apart from introductory lectures during the first week or two of classes, this course follows a discussion-seminar format.
This course is intended for the general student of French as well as the specialist. Its objective is to familiarize the student with major developments in prose fiction in French Canada in the period 1837-1943. Of necessity, it deals with major historical, social and political developments in that period as well; so some knowledge of Canadian History would be advantageous.
Apart from the first few meetings, the course will be conducted as far as possible in a discussion-seminar format. Methods of evaluating student performance will be established by individual contact within the first week of classes. Requirements will include at least one essay, undertaken in consultation with the instructor. During problems with supply, texts will be: R. Girard, Marie-Catherine, Louis Hébert, Marie Chomedey de, A. Lahere, La Scouine, Ph. Parent, Terre-Neuve, G. Robitaille, L'exposition. Very useful background reading: R. Robitaille and A. Renaud, La romanisation française; J. Urban, From Thirles to Modern Times.
Prerequisite: FRE628Y
Session: Summer Day
(see SLI Special Programmes Brochure available in Registrar's Office, Student Services, and Divisional Office).

FREN610 Workshop in Modern French Theatre / Information will be available at a later date in Room W1220A
A discussion of performing techniques combined with practical work in staging and acting modern French plays. This will result in the production of at least one play.
Prerequisite: FRE540I or equivalent language ability.
Session: Summer Day
(see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).

FREN640 The Poetry and Prose of the Golden Age / G. Tremblay
A study of non-dramatic literature of the 17th Century, with attention to works by Mollet, Descartes, Pascal, Boileau, La Fontaine, La Bruyère, La Rochefoucauld, Mme. de Lafayette and others.
A seminar course on some of the major writers of 17th century France, excluding those whose medium was the stage (see FRE440I).
The authors studied will include, among others, Mollet, Descartes, Pascal, Boileau, La Fontaine, La Bruyère, La Rochefoucauld, Mme. de Lafayette, etc. There will be two compositions and one term test. Active participation in the classroom discussions, explanations de texte, etc.
Prerequisite: FRE540I
Session: Fall Day

FREN614 The Playwrights of the Golden Age: Corneille, Molière and Racine / G. Tremblay
A study of the development of classical tragedy and comedy in the 17th century, with emphasis on themes and dramatic structure as seen through the major plays of the period.
A thematic study of a fine selected plays by Corneille, Molière and Racine, considered both as works of art (aesthetic) and as the literary expressions of a specific civilization (social history).
There will be two compositions and one term test. Active participation in the classroom discussions, explanations de texte, etc.
Prerequisite: FRE540I
Session: Spring Day

FREN612 General History of the French Language / C. Evans
Topics will be chosen for study from the general history of French, from its origins in Latin to the present, including reference to social and regional variations of the standard language as well as the influence of other languages on its development. Students specializing in French language or literature who select this course are urged to take FRE540I as a companion course.
The changes in phonology, orthography, morphology and syntax and vocabulary will be covered.
Examples will be given from a variety of short texts.
The class will meet twice a week for the presentation and discussion (both in French) of the topics chosen for study. Texts will be Guillaume Plane, L'histoire de la langue française; Baudot, Paris 1977.
Evaluation will be based on one research paper, at least one oral presentation, a mid-term and a final examination.
Prerequisite: FRE612Y
Session: Fall Day

FREN613 The French Language in Canada / C. Evans
Attention will be given primarily to the expansion of French abroad, special emphasis being laid on the language in North America, particularly Canada. Students specializing in French language or literature who select this course are urged to take FRE540I as a companion course.
The history of French in Canada. How Canadian French now differentiates itself from Standard French, particularly in phonology and vocabulary. Attention will be given to the variations within Canadian French.
The class will meet twice a week for the presentation and discussion (both in French) of the topics chosen for study. Texts will be Le français au Québec; Vincent Lucci, Phonologie de l'Acadie, Diderot, Montreal, 1973.
Evaluation will be based on one research paper, at least one oral presentation, a mid-term and a final examination.
Prerequisite: FRE540I
Session: Spring Day

FREN616Y Theoretical and Practical Phonetics / G. Tremblay
This course will comprise the following: (1) general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation, (2) analysis and discussion of recordings built in the language laboratory, with use of tapes in the classroom; (3) inclusion of a wide range of recorded materials, genres, styles, social and regional variants.
1. Study of the basic principles of French phonetics.
2. Analysis of various types of native speech with the use of tapes. Practical exercises include phonetic drill and readings of texts by the students. Several "quizzes" throughout the year.
3. A written test at the end of the first term. A written and oral test in the 3rd. Students will also be evaluated on their performance in the class discussions.
Required textbook: P. Léon, Prononciation du français standard. The basic theoretical material will be given by the instructor. Practical exercises will be taken from Léon as well as from other sources.
Additional bibliography will be provided at the beginning of the year.
Prerequisite: FRE540I
Session: Winter Day
FRE4109 Textual Analysis / C. Jennings
This course will involve a study of literary texts from the seventeenth to the twentieth centuries. Texts for study will also be chosen from the following disciplines: Fine Art, History, Philosophy, Psychology, Sociology, Political Science, Journalism.
After some introductory lectures on aspects and methods of textual analysis, the course will consist of tutorials. Literary texts will include the three genres: Depending on the interests of the class members, material for study may also be chosen from among other disciplines, or from the students' own writings.
The class will meet two hours per week. Evaluation will be based on two written, oral explications de textes and class participation. There will be no final exam. Class participation is indispensable. A detailed bibliography will be distributed at the first day of class.
Prerequisite: At least one B-level course in French, excluding FRE411 and FRE412
Session: Spring Day

FRENCH COURSES NOT OFFERED IN 1978-79
FRE411 Man and Society in French Fiction
Prerequisite: Reading knowledge of French tested by an entrance examination for students without grade 13 French
FRE412 Man and Society in French-Canadian Fiction
Prerequisite: Reading knowledge of French tested by an entrance examination for students without grade 13 French
FRE911 Topics in French Literatures: Politics in Quebec Literature
Prerequisite: Reading knowledge of French tested by an entrance examination for those without grade 13 French
FRE912 Topics in French Literatures: Love and Honour
Prerequisite: Reading knowledge of French tested by an entrance examination for those without grade 13 French
FRE914 Topics in French Literatures: The Rural Novel in Quebec
Prerequisite: Reading knowledge of French tested by an entrance examination for students without grade 13 French
FRE925 Introduction to French Linguistics
Prerequisite: FRE410
FRE929 French Drama of the Nineteenth Century
Prerequisite: FRE410
FRE930 French Theatre of the Early Modern Period
Prerequisite: FRE410
FRE315 Contemporary French Theatre: The Theatre and the Absurd
Exclusion: FRE410 (in 1973-74 and previous sessions)
Prerequisite: FRE410
FRE320 The Writer and Nineteenth Century Society
Exclusion: FRE410
Prerequisite: FRE410
FRE335 Readings in Nineteenth Century French Fiction
Prerequisite: FRE410
FRE375 French-Canadian Novel since 1945
Prerequisite: FRE410
FRE380 The Theatre of French Canada
Prerequisite: FRE410
FRE410 The Twentieth Century: In Search of the Novel
Exclusion: FRE410
Prerequisite: FRE410
GEOGRAPHY

Assistant Chairman: M. F. Bunce

The geography programme includes courses on diverse topics having to do with the development of landscapes, 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 geography curriculum is designed in terms of course sequences and combinations that will provide students both with a broad background in the discipline and with a sound basis for a career, whether in planning, teaching or various government agencies and departments. While each student should, in consultation with the faculty, develop his or her own programme, the following sequences are recommended. Please note that the order in which the courses are listed here is the order in which they must be taken. Some suggestions for elective courses in other disciplines are also made. There are many other relevant courses in Geography and other subjects offered on the St. George Campus.

Sequence A: Physical Geography

A04, A05
B02, B21, B22, B23, B19, B18, B07, B15
C06, C15, C23, C25, C01, C05, C12
D01, D02, MAT22

Sequence B: Urban/Economic Geography

A04, A05
B02, B16, B22, B05, B06, B13
C04, C15, C18, C01, C12, C24, C27
ANT214, ECOB47, SOC205

Sequence C: Landscape/Regional Geography

A04, A05
B21, B22, B05, B13, B17, B19, B23, B16
C04, C14, C17, C20, C01, C12
GG8399 (St. George)

Sequence D: Environmental and Resource Geography

A04, A05
B02, B21, B22, B02, B03, B19, B18
C13, C20, C21, C23, C01, C12, C26
NSC202, ECO301

Sequence E: A General Programme in Geography

A04, A05
B27, B01, B03 or B19, B05 or B13, B17
C12, C13, C14

Major Programme in Geography

Supervisor of Studies: E.C. Ralph

Students should normally complete not less than nine full courses for equivalent in Geography including the following:

1. GGR604Y The Nature of Human Geography and GGR605Y Introduction to Physical Geography
2. GGR602Y Geographic Methods II: Analytical and Quantitative Methods
3. GGR607Y Supervised Research
4. GGR611T Contemporary Issues in the Philosophy of Geography or GGR639 History and Philosophy of Geography (course available only on the St. George Campus)

Although students may complete major programme requirements by completing courses available on the Scarborough Campus students should also look at the Calendar of the Faculty of Arts and Science (St. George Campus) to evaluate the wide range of Geography courses offered on that campus.

GGR604Y The Nature of Human Geography / M. F. Bunce and E.C. Ralph

Comparison of the three major approaches to human geography - spatial organization, resources and environment, landscape and culture - with population as the central theme.

The course aims to identify and discuss some of the fundamental concepts of human geography, to demonstrate the nature of the three major approaches in human geography, and to the basic importance of population to these approaches. The course consists of four main sections: i) principles and facts of demography, and a survey of methods of demographic analysis; ii) study of populations in geographic space, and of theories and models of spatial organization; iii) relationships between population, resources and environment; iv) manifestation of population quality and landscape and culture. The teaching method will consist of lectures and tutorials. Evaluation will be based on assignments, and an examination.

Exclusion: GGR4006; GGR5006

Session: Winter Day, Summer Evening

GGR605Y Introduction to Physical Geography / J. B. Greenwood

An introduction to principles of physical geography. The course is designed 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 environmental systems operating at the surface of the earth, the interrelationships between systems and the impact of man upon such systems.

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

Exclusion: GGR4006; GGR5006; GGR5008; GGR6006

Session: Winter Day
GGBR81V Geography of Resources
Problems of resource use with particular reference to their environmental setting: (1) definition and classification of resources; (2) special problems relating to agricultural resources; (3) specific aspects of the use of non-agricultural resources, and finally (4) an examination of the misuse and abuse of resources.

Resource issues are examined in two broad contexts: global resource 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 laws, problems of land management in Canada. The teaching method consists of two lecture hours per week. Evaluation will be based on two three-hour examinations, two essays.

Prerequisites: GGRAMA4 or GGRAM5.
Session: Winter Day

GGBR81Y Analytical and Quantitative Methods in Geography / J. J. Mirna
An introduction to classical and Bayesian probability theory; frequency and sampling distributions, population parameters and statistical estimation, hypothesis testing; correlation and regression, sampling theory; and analysis of variance. Applications to geographic problems include spatial sampling, trend surface analysis, evaluation of spatial patterns, and spatial auto-correlation. Elementary computer programming is also included.

The teaching method consists of two lecture hours, and two hours labs per week. Evaluation will be based on weekly assignments, mid-term, December and final examinations. Exclusions: ECOB11, PSYB07, MATB15, MATB175

Prerequisites: GGRAMA4 or GGRAMA5.
Session: Winter Day

GGBR84Y Climatology / G. St. Arne
An introduction to the scientific analysis of world climate through study of the governing physical and dynamical controls. The major zonal climates of the earth are described including an examination of atmospheric circulation, global energy and moisture balances. In the second half of the course several important applied aspects of climatology will be examined. Tutorials will include use of simple climatological instruments and analysis of weather maps.

Some of the major topics are: gas flows in the atmosphere, atmospheric motions and winds, global circulation, atmospheric water vapour and clouds, air masses and fronts, climatic variables - their measurement and use. The teaching method consists of lectures and laboratories. Evaluation will be based on a term test (30%), term paper (30%) and a final examination (40%).

Prerequisites: GGRAMA5.
Session: Winter Day

GGBR85Y Urban Geography
An introduction to the characteristics and major problems of Canadian cities, in three main sections: urban history; the development of Canadian cities and urban problems. Topics include urban growth and processes; urban form and land use; systems of cities; urban form and design; spatial structure of land uses: distinctive socio-economic areas within cities; circulation; transportation and immigration.

Prerequisites: GGRAMA4 or GGRAMA5.
Session: Winter Day

GGBR86Y The Geography of Economic Activities
An introduction to the issues of regional variations in economic activity and development. The course contains theories of the location of agriculture, industry and tertiary activities; the nature of economic regions; migration, mobility and trade; regional disparities and development; and the geography of Commodity markets. There will be case studies of the economic geography of regions and the distribution of major economic activities.

Prerequisites: GGRAMA4, ECOAMA1, COMAMA1Y.
Session: Winter Day

GGBR87Y Geomorphology; The Pleistocene Epoch / B. Greenwood
The course is centered around the theme "Morphology and Process" and evaluates landscape changes during and since the Pleistocene Epoch. The relationships between the mechanics of erosion, transport, and deposition and the surface forms associated with the growth and decay of continental ice sheets will be studied. Field trips during the fall term. Limited enrolment. 25

The teaching method will consist of field excursions; lectures; laboratories. Evaluation will be based on one essay, one term project in conjunction with laboratory work, and a final examination.

Prerequisites: GGBR81Y.
Corrections: GGRAMA2; GGRAMA8.
Session: Winter Day

GGBR81Y Modern Landscapes and Built Environments / E. Ralph
The character and architectural and social origins of twentieth century landscapes, and the ways in which places and landscapes can be appreciated and designed.

In the fall term the features of modern landscapes and their technological, cultural and architectural origins will be discussed. In the spring term emphasis will be on the experience and appreciation of landscapes, and on the problems and difficulties of twentieth century built environments. Various approaches in environmental design will be examined. Field trips are planned during the fall term. Evaluation will be based on studies of particular landscapes, essays and an examination.

Prerequisites: GGRAMA4; students with GGRAMA5 admitted with permission of instructor.
Session: Winter Day

GGBR84Y Local Area Studies
This course aims to encourage an understanding of the character of local areas and particular places. Competence in making field observations and in interpretation and analysis is encouraged through several closely supervised research investigations of one or more areas.

This is a methodological course based on the direct observation and reporting of such things as land use, building types, and activity patterns. Evaluation is based on reports of field surveys and investigations of specific places.

Prerequisites: GGRAMA4 OR GGRAMA5.
Session: Winter Day

GGBR87Y Rural Geography / M. F. Bacon
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.

Exclusions: GGBR20.
Prerequisites: GGRAMA4; students with GGRAMA5 admitted with permission of instructor.
Session: Winter EVENING

GGBR81Y Hydrology and Water Resources / J. A. Price
The course presents a qualitative study of the processes governing the behaviour of water at various scales of the earth. Quantitative schemes of analysis and prediction are considered as well as some of the applications to problems of water resources management planning.

Many of our problems, particularly those involving extreme hydrologic events, stem from two sources. First, our lack of understanding of the operation of natural hydrologic processes, and second from our inability to predict and understand the consequences of our manipulations of the controls on the terrestrial phase of the hydrologic cycle. These changes are most frequently the unforeseen consequences of other actions. It is hoped that this course will result in a better understanding of these controls, and in a working knowledge of ways in which "hydrologic risk" can be assessed. The teaching method consists of two one-hour lectures per week and one one-hour laboratory per week. Evaluation will be based on two exams, term one and term two; field projects, terms one and two; major assignments, term two; laboratories, terms one and two.

Prerequisites: GGRAMA5.
Session: Winter Evening

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GGCR21Y Landscape Interpretation / E. Rolph
Way of interpreting and analyzing landscapes are developed through field investigations of specific places, both urban and rural. Limitation: 20
In the fall term the course involves a number of field trips held in class time followed by discussion and analysis of observations. In the spring term the emphasis will be on the analysis of individual landscape features and methods of observation and interpretation. Evaluation is based on brief reports of the field investigations, a major paper and class presentation.
Prerequisites: GGGR880; students with other geography courses or from other disciplines admitted with permission of instructor.
Session: Winter Day

GGCR18S Urban Transportation Policy Analysis / J. Mincic
An introduction to the analysis of urban transportation planning problems. Topics include the spatial impacts of transportation improvements, mass transit policy, environmental impacts, and evaluation in transportation planning.
The teaching method consists of three hours lecture per week. Evaluation will be based on a term paper and a final examination.
Prerequisites: Any two b-level courses in social sciences.
Session: Winter Day

GGCR21F Economic Aspects of Water Resources Management
Environmental issues in a regional context; conservation and resource management; regional development and environmental indicators. Problems of defining and implementing environmental standards. Environmental politics and decision making. Limited enrolment: 20.
Prerequisites: GGGR880
Session: Winter Day

GGCR22F Physical Aspects of Water Resources Management / A.C. Price
The physical characteristics of man's use of surface and subsurface water, with particular emphasis upon the degradation of water quality by sewage, chemical, thermal and organic wastes. The course outlines the main sources of degradation and depletion of water resources and proposes some physical solutions to these problems.
The aim of this course is first to familiarize you with the ways in which undisturbed ("natural") water systems maintain equilibrium, and to gain a general understanding of the effects of changes in the major water quality parameters on natural aquatic systems. Secondly, the consequences of human water usage will be investigated. The teaching method consists of one two-hour lecture per week. Evaluation will be based on a major term project and seminar, considered as one unit, a midterm test and a final examination.
Prerequisites: GGGR881; students who have a credit in any of GGR880; GGGR887; GGR880 or GGR881 may be admitted with permission of instructor.
Session: Winter Day

GGCR22S Sedimentary Models
This advanced course developing the basic principles of sediment transport mechanics necessary for the interpretation of the physical properties of sediments. Detailed examination of a wide range of modern sedimentary systems will be undertaken to establish analogues for paleoenvironmental interpretation. Topics include fundamental sediment properties, facies definition, textures and sedimentation, cyclic sedimentation, facies models, palaeohydrological interpretations. Laboratory and field work will be a course requirement.
The teaching method will consist of lectures and seminars - two hours per week, and laboratories and field trips - two hours per week. Evaluation will be based on a seminar paper plus a final examination.
Prerequisites: GGR819; (GGR870, or GGR851 or GGR31) (St. George)
Session: Winter Day

GGCR24Y The Geography of Underdevelopment
The definition, nature, problems of underdeveloped areas. Underdevelopment as a phenomenon, a process, and their expression as geographically distinct realities. Considerable reading and class participation by the student through discussions and seminars. A background in Economics would be useful.
The course examines the spatial dimensions of development and underdevelopment in both the traditional and modern sectors of less developed countries. The changing spatial organization of territory is examined in light of altered population/land ratios and urban/total ratios. Among the particular themes covered are: colonization; urbanization; the spatial impacts of colonialism; rural-urban settlement system relations; migration; city size and structure; trade and marketing. The teaching method consists of lectures, two hours per week, student presentations, one hour per week. Evaluation will be based on one three-hour examination, two essays and class participation.
Exclusion: GGGR880
Prerequisites: (GGR880, GGR888)
Session: Winter Day

GGCR27Y City Planning Analysis and Regional Sciences / J. Mincic
An introduction to quantitative approaches to problems of planning for urban regions. Topics include demographic analysis, regional economic growth and environmental policy analysis, urban spatial form, and the evaluation of planning alternatives.
The teaching method consists of three hours lecture per week. Evaluation will be based on assignments: midterm, December and final examination.
Exclusion: GGGR807
Prerequisites: Two of ECO881Y, GGR880Y, GGR882Y (or equivalent statistics course).
Session: Winter Day

COURSES NOT OFFERED in 1979-80
GGR815Y Coastal Geomorphology
Prerequisites: (GGR815)
Corequisites: None, Int GGR882Y highly recommended
GGR8165Y Biogeography Seminar
Prerequisites: GGR880Y or GGR888Y or GGR891Y
GGR8105Y Rural Planning and Development
Prerequisites: Any three 2-level courses in Geography. Students with a background in other Social Sciences disciplines may be interested in this course.
They will be admitted with permission of instructor.
GGR8128S Advanced Quantitative Methods
Prerequisites: GGR882Y

GEOLOGY
Discipline Representative: J. Westgate
Geology is the principal branch of the Solid Earth Sciences concerned with the origin, history and structure of the Earth. It is a scientific discipline providing a dynamic perspective view of the physical-chemical and biological processes that have operated on the Earth by observations of rock materials. Because of the multidisciplinary nature of Geology, the course "Planet Earth: an Introduction to Geology" interlaces well with other fields such as Anthropology, Biology, Chemistry, Geography, Physics and Quaternary Studies, and provides a sound basis for further studies in these areas as well as a basis for specialization in Geology itself. Students intending to specialize in Geology are advised to consult Professor J. A. Westgate - Room S523.
GERMAN

Discipline Representative: H. Olendorf

Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria, and parts of Switzerland. While language and literature courses may be combined in various ways by students who have completed the necessary prerequisite courses, those who intend to major in German should consult the German and Modern Languages and Literatures offices in the programme section of the catalog. The Programme includes a language course during each year of study in order to maintain continuity in the development of practical skills.

Major Programme in German

Supervisor of Studies: H. Olendorf

To major in German, students must complete a minimum of nine B-level or C-level full-course equivalents (200, 300 or 400-series courses on the St. George Campus) including the following:

GERC110H/GERB110H German Conversation and Composition I
GERC212F/GERB212F Middle High German
GERB147Y (GERB117Y) (The German Novel from Goethe to Grass) and GERB148Y (GERB121Y) (The Development of German Drama) do not count toward fulfillment of these requirements.

For students in full-time attendance we recommend the following sequence of courses:

(1) GERB147Y and GERB148Y or GERB149Y
(2) GERB149Y; one full course equivalent from the B-level literature courses
(3) GERCH1Y or GERCH2Y, or one full course equivalent from the B-level literature courses
(4) GERCD1Y or GERCD2Y, GERCD2F/S; and one full course equivalent from the B-level literature courses.

All students are urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Major Programme in German Area Studies

Supervisor of Studies: H. Olendorf

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 cohesive inter-disciplinary plan of study we have grouped these courses below. This is a programme of 14 courses.

Required for every student are the German language courses GERB20, GERB30 (GERB36), GERB310 (GERB320) and two full course equivalents in German Literature. Five 35 courses in are to be drawn from the core groups A, B, or C. The remaining four (4) courses should be selected from groups A - E, excluding your core choice.

A. History

GERH18Y The European World
GERH37Y Germany in the 19th and 20th Centuries
GERH37Y European Society and Culture Between the World Wars

plus two courses from among:
GERH18Y Europe in the Reformation Era 1500-1650
GERH37Y Aspects of European Social History 1790-1918
GERH37Y Europe under the Enlightened Despots

B. The Arts

FARR18Y Art of the 20th Century
MUS103Y Introduction to Music
MUS102F Haydn, Mozart, Beethoven
MUS101F Music of the Romantic Period

plus two full course equivalents from among the following:
FARR18Y Art of the 1st Half of the 19th Century
FARR18Y Art of the 2nd Half of the 19th Century
FARR31Y Medieval Art (DV-95) Ceramics
FARR35Y/S Expressionist Tends in Western Art from Van Gogh to Jackson Pollock
FARR41Y Renaissance in Europe
FARR41Y Baroque in Europe
MUS101F Music of the 20th Century
MUS102F Music of the Baroque Era
MUS101F The Symphony
MUS101F Bach

C. Philosophy

PHL101Y Fundamental Questions of Philosophy
PHL113Y Marx and Marxism
PHL101F/S Existentialism
PHL101Y Philosophy in the Late Modern Age I
PHL101F/S Philosophy in the Late Modern Age II

plus two full course equivalents from among the following:
PHL101Y Philosophy and Art
PHL101Y Philosophy in Literature
PHL113Y Philosophy of History
PHL101Y Existence and Reality
PHL101Y Philosophy of Science
PHL101Y Logic of Language
PHL101Y Philosophy in the Early Modern Age I
PHL101Y Philosophy in the Early Modern Age II

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GERA401  Language Practice I / Information will be available at a later date in Room H132A.
A practicum offered in conjunction with GERA40Y. The focus is on pronunciation and elementary oral composition.
This practicum is designed to reinforce and supplement oral drills and practice the grammar work done in ARFY, as well as to expand the students' skills of expression and comprehension in German. There are two hours of supervised language laboratory and oral drills.
Evaluation will be based on a series of short quizzes, dictation, class participation and an oral test at the end of the year.
Corerequisite: GERA30Y
Session: Winter Day

GERA40Y  Introductory German / U. Sherman
The fundamentals of grammar and syntax. This course will include: 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, including oral and written composition.
Corerequisite: GERA40H
Session: Winter Day

GERA40H  Language Practice II / Information will be available at a later date in Room H132A.
A practicum offered in conjunction with GERA40Y. Focus is on oral and written composition on the intermediate level.
This practicum is designed to increase the students' vocabulary and general fluency in German (one hour of supervisory 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.
Corerequisite: GERA40Y
Session: Winter Day

GERA40Y  Introductory German / U. Sherman
The basics of grammar and syntax. This course will include: 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, including oral and written composition.
Corerequisite: GERA40H
Session: Winter Day

GERA40Y  Language Practice II / Information will be available at a later date in Room H132A.
A practicum offered in conjunction with GERA40Y. Focus is on oral and written composition on the intermediate level.
This practicum is designed to increase the students' vocabulary and general fluency in German (one hour of supervisory 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.
Corerequisite: GERA40Y
Session: Winter Day
GERB968 Methods of Interpreting Literature / H. Wittman
An introduction to the techniques of literary analysis, applied to representative texts of the eighteenth, nineteenth, and twentieth centuries. Poems and short pieces of prose will be analyzed in close reading. Prose and metrics will be dealt with at some detail, special attention will also be given to the relationship of form and content. In the final session patterns of theme, 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; there be 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: GERB968
Prerequisite: Grade 13 German or GERA09
Corequisite: (GERA11) or GERI10
Session: Winter Day 30

GERB985 Nineteenth Century Drama / H. Wittman
The development of drama from Grabbe and Buchner to Hauptmann and Wedekind. The core of this course is formed by the best known plays of two major trends of 19th century drama: the conservative and the revolutionary. Emphasis will be placed on the reading, analysis and discussion of the plays in the context of their time and the literary traditions in which they stand as and which they themselves begin. The plays will also be looked at in practical examples of the theories of the theatre they are intended to represent.
Three hours of a mixture of lectures and discussion sessions per week.
Short talks and a paper. Class participation will play a major role in determining the final grade.
Prerequisite: (GERA11) or GERI10
Corequisite: (GERI04) or GERI10
Session: Winter Day 30

GERB106 Twentieth Century Drama / H. Wittman
A study of plays from Expressionism to the present.
Modern German drama from Brecht to Hohlbe is investigated in this course. Special attention is paid to the definition of phenomena such as expressionism, epic theatre, documentary theatre, theatre of the absurd etc. as they apply to the authors selected. The course intends to show what gave rise to the many experiments in modern German theatre, and what relationships exist to the social and ideological realities which these plays confront.
Three hours of a mixture of lectures and discussion sessions per week.
Short talks and a paper. Class participation will play a major role in the final evaluation.
Exclusion: GERB985
Prerequisite: (GERA11) or GERI10
Corequisite: GERI04 or GERI10
Session: Winter Day 30

GERB973 German Modernist Poetry / H. Wittman
A study of critical trends and forms from the post-Romantic era to the present. The course deals with a multiplicity of different forms and styles of poetry in the 19th and 20th century. It attempts to foster the understanding of how a poem works and of what its role is within the literary and in its cultural context, Special topics: the relationship between sound, organization and meaning, poetry and philosophy, poetry and ideology. Three hours of a mixture of class-discussion and lectures.
Short talks, one paper. Class participation will play a significant role in determining the final grade.
Exclusion: GERB985
Prerequisite: (GERI04) or GERI10
Corequisite: (GERI04) or GERI10
Session: Winter Day 30

GERC108 Conversation and Composition II / H. Oberlindorf
Emphasis will be placed on the skills of oral and written composition, of textual analysis and translation.
This course is a continuation of GERB900. There will be various kinds of language exercises, selected according to the objectives of the course and the needs and desires of the students. Themes for discussion and composition will be chosen from a wide variety of areas. At the end of this course, the student should be able to write and converse in idiomatic German with a high degree of fluency. He should be able to translate with ease texts of some complexity into both English and German.
Three hours of informal, yet structured discussion per week. The language spoken in class is German.
Evaluation is based on frequent written assignments, class participation, term tests.
Exclusion: GERC04
Prerequisite: (GERB900 or GERI90)
Session: Winter Day 30

GERC114 Classical / H. Oberlindorf
A study of Classicalism, with particular attention to Schiller and Goethe. Reference will be made to the critical writings of men such as Winckelmann and Herder and to the essays and the exchange of letters by Schiller and Goethe.
The course deals essentially with the writings of Goethe and Schiller after their "Sturm and Drang" period. We will read plays, novels, poetry, and essays. The background against which the texts will be read is that of Classicalism, a term that describes a European literary and critical tradition as well as a specific German literary phenomenon in European Romanticism. Discussions and lectures in seminar format.
Two term tests, one major paper. Class participation, including brief presentations, will play an important role in the final evaluation.
Exclusion: GERC98
Prerequisite: (GERA11) or GERI10
Corequisite: (GERI04) or GERI10
Session: Winter Day 30

GERC250 Introduction to Middle High German / J.D. Woods
The structure of the Middle High German language, illustrated through selected works of the literature.
Our aim will be to acquire a thorough understanding of the grammar of Middle High German in order to be able to read the literature of the language. Evaluation is based on class participation and tests; exact proportions of these components in the final grade will be determined later.
Exclusion: GERC98
Prerequisite: (GERA11) or GERI10
Corequisite: (GERI04) or GERI10
Session: Winter Day 30

GERC30 MIS Supervised Reading / Staff
Informal tutorial
One paper.
Prerequisite: (GERB900 or GERI90)
Session: Winter Day 30

GERC45Y Supervised Reading / Staff
The course is designed to give senior students an opportunity to follow up ideas generated during the more formal course of instruction. Topics and projects are formulated in close consultation between student and supervisor chosen by student.
Informal tutorials.
Two medium length papers, one major paper.
Prerequisite: (GERB900 or GERI90)
Session: Winter Day 30
GERMAN COURSES NOT OFFERED in 1979-80

GERBR335 History of German
Exclusion: GERB86
Prerequisite: Grade 13 German or GERB80

GERBR407 The Development of German Drama
Exclusion: GERB21

GERBR59 German Literature before 1775
Exclusion: GERB61
Prerequisite: GERB110 or GERB30
Corerequisite: GERB100 or GERB30

GERBR65 Literature of the Baroque and Enlightenment
Exclusion: GERB60
Prerequisite: GERB111 or GERB20
Corerequisite: GERB100 or GERB30

GERBR66 Nineteenth Century Prose
Exclusion: GERB10
Prerequisite: GERB111 or GERB20
Corerequisite: GERB100 or GERB30

GERBR67 Twentieth Century Prose
Exclusion: GERB60
Prerequisite: GERB111 or GERB20
Corerequisite: GERB100 or GERB30

GERBR70 Features of Post-war German Literature
Exclusion: GERB60
Prerequisite: GERB20
Corerequisite: GERB100 or GERB30

GERBR70V Literature of "Sturm und Drang" and Romanticism
Exclusion: GERB12
Prerequisite: GERB111 or GERB20
Corerequisite: GERB100 or GERB30

GREEK

Courses are offered in introductory Greek. (GERA101 and GERK101B and Greek literature of the classical period (GERK100, GERK101, etc.)

For further information see under Classical Studies.

GERK101 Introductory Greek
GERK102 Introductory Latin
GERK105 Initial to Greek Authors
GERK106 Plato: Apology
GERK107-89S Greek History, etc.
GERK109X Supervised Reading

Greek and Roman History

The following courses are offered this year:

GERR102Y Greek History from the Bronze Age to the Death of Alexander
GERR103Y Roman History from the Gracchi to Nero
GERR104X Ancient Historiography
GERR105Y Studies in Roman History, Roman Britain

For further information see under Classical Studies.

HISTORY

Discipline Representative: M. Estes

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 humancentric: 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 Political, Philosophy, Literature, Economics and Sociology.

The History program offers a variety of approaches and teaching in order to satisfy a number of purposes. HISADIV 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 (HISB312-09) 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. C-series courses 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, Canadian, United States, Russian, and Ancient Greek and Roman.

Major Programme in History

Supervisor of Students: A. N. Sheps

Students must complete a minimum of nine full courses in History (HIS or GER). Students are required to take courses in the history of at least three different areas: Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian, and to take two advanced courses in each of these three areas. Students should meet with the Supervisor of Studies as soon as possible.

Pre-1815 courses

List A

Full-year courses exclusively within a period before 1815

GERB101Y History of Greece from 2000 B.C.
GERB102Y Greek and Roman History from the death of Alexander
GERB103Y Roman History from the Gracchi to Nero
GERB104Y Studies in Greek History I
GERB105Y Studies in Greek History II
GERB107Y Studies in Roman History: Pompeii
GERB20Y Studies in Roman History
HIBR10Y Europe in the Middle Ages
HIBR11Y Europe in the Reformation Era, 1500-1600
HIBR12Y Society in Early Modern Europe, 1500-1800
HIBR13Y Europe under the Enlightened Despots
HIBR17Y Europe, 1600-1800
HIBR41Y The Bourgeoisie of France: Contrastive to Charlemagne
HISC10Y The European Mentality in the Early Modern Period
HISC20Y The American Colonies and the British Empire
HISC21Y The Crusades

List B

Half-year courses exclusively within a period before 1815

GERB30FS Ancient Historiography
HISC10P/S Revolutionary America 1760-1790
HISC41F/S Old Historiography
HISAOY
The European World
An introduction to the history of Europe from the beginning of the present to the recent past. The course covers the major events, trends, and key figures in European history. It begins with a discussion of the major political, economic, and social changes in Europe during the Middle Ages and continues through the Renaissance, the Reformation, and the Age of Enlightenment. The course also examines the impact of European imperialism, the Industrial Revolution, and the two World Wars. Emphasis is placed on the development of modern Europe, including the emergence of the European Union and the challenges facing the continent in the 21st century.

HISB0Y
Russo from the Thirteenth Century to the Present
HISB1Y
Russia and the European World
This course explores the history of Russia from the thirteenth century to the present. It covers the origins of the Russian state, the Mongol invasion, the development of Russian culture, the rise and fall of the tsars, the Russian Revolution, and the Soviet Union. The course also examines the impact of Russia on the rest of Europe and the world, including the Cold War and the end of the Soviet Union.

HISB2Y
The European Renaissance
This course examines the cultural and intellectual developments of the Italian Renaissance, focusing on the period from the fifteenth to the early sixteenth century. It covers the major figures and movements of the time, including the lives and works of Leonardo da Vinci, Michelangelo, and Raphael, as well as the development of humanism and the scientific revolution.

HISB3Y
Europe and the Reformation Era
This course explores the cultural and religious developments of the Reformation era, focusing on the period from the late fifteenth to the early sixteenth century. It covers the major figures and movements of the time, including the lives and works of Martin Luther, John Calvin, and other key figures in the Reformation. The course also examines the impact of the Reformation on politics, society, and culture.

HISB4Y
Modern Europe
This course examines the history of Europe from the eighteenth to the twenty-first century. It covers the major events, trends, and key figures in European history, including the Enlightenment, the French Revolution, the Industrial Revolution, and the two World Wars. The course also examines the impact of Europe on the rest of the world, including the development of global trade and the spread of Western culture.

HISB5Y
The Renaissance in Europe
A survey of the major developments of the Italian Renaissance, focusing on the period from the fourteenth to the sixteenth century. It covers the major figures and movements of the time, including the lives and works of Leonardo da Vinci, Michelangelo, and Raphael, as well as the development of humanism and the scientific revolution.
HISB3YV Europe Under the Enlightened Despots, 1780-1789 / J. W. Dawson
An examination of the ideas of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century. Emphasis will be placed on the inconsistency of theory and practice in the writings and policies of the enlightened despots.
In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual milieu which spawned them. In the second term the attempts of the so-called enlightened despots to apply Enlightenment ideas to the life of their states will be examined.
The course will be taught by lectures and tutorials. Evaluation will be based on two essays and one final examination.
Exclusion: HISB38V; Prerequisite: HIS24Y; Session: Winter Day

HISB2YV Tudor and Stuart England / Information will be available at a later date in Room 369
A survey of the major political, economic, social and cultural events in England during the sixteenth and seventeenth centuries including the Reformation, the puritan Revolution and the Civil War.
There will be two lecture hours and one tutorial per week, essays each term, and an examination.
Exclusion: Another B-Level course; Prerequisite: HIS20Y; Session: Winter Day

HISB2YV The Southern United States and Slavery / A. N. Skipper
The social, political and economic structures of the old South from the colonial period to the Confederacy, the development of southern culture, the relationship between ideas and institutions, slavery as a social and economic system, race relations, and the growth of Southern separatism.
There will be one double lecture and one tutorial per week in both of which there will be opportunity for class discussion led by the instructor. Term work will consist of regular reading and discussion, two brief written reports in the Fall term, an essay in the Spring term and an examination.
Prerequisite: HIS20Y; Session: Winter Day

HISB4YV The Prairie Provinces 1800-1910 / W. A. McKay
A study of the background of Western Canadian settlement beginning with the attempts to break the H.B.C. trade monopoly, native rights, the educational problem, agrarian protest movements, the natural resource control question, the fiscal problems generated by the depression, post-war search for "a place in Confederation". There will be one two-hour weekly course with regular presentations by members of the class together with research and the preparation of two essays.
Students will be evaluated on the basis of written and oral work. The bibliography consists of: Ambrose, Western Canada Since 1870; Thomas, The Prairie West to 1900; Morton, Manitoba; Morton, The Canadian West to 1921; Stanley, The Birth of Western Canada; Morton, The Progressive Parties in Canada; Wood, A History of Farmers' Movements in Canada; and other titles are a list of which will be distributed in class.
Prerequisite: HIS240Y or HIS40Y; Session: Winter Evening

HISB48Y Atlantic Canada / J.R. Robertson
An examination of the Maritime provinces and Newfoundland from the first European contacts to the present, with emphasis upon the pre-Confederation period in each province. Subjects to be investigated include the following: international fisheries; French regime; British settlement; responses to the American Revolution; the Loyalist impact; colonial economies and social structures; struggles for responsible government, and its eventual loss in Newfoundland; religions and ethnic tensions; adjustment of the Maritimes to Confederation, and the prolonged residence by Newfoundland; farmer, labour and fishermen's movements; the persistence of regional development; the rise of tourism as an "industry"; literature and intellectual developments.
There will be one two-hour lecture per week, and the class will be divided into two tutorial groups for group discussion every two weeks. Written work will consist of two 5,000-7,000 research papers. In broad terms, the course objectives are (1) to promote the study of a region whose history has been largely ignored by Canadian historians, and hence inaccessible to students, and (2) to provide an opportunity for indepth study of such historical phenomena as regional underdevelopment. The weighting of evaluation will be as follows: research papers 40%, examination 30%, tutorials 25%. Regular attendance at and participation in tutorials are required. Written work will include a final examination and two research papers. In broad terms, the course objectives are (1) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have organized to protect their interests; and (2) to explore the relationship between social change and popular, reform, radical, and socialist movements. Evaluation will be based on research papers (40%), examination (30%), tutorials (25%).
Exclusion: HISB47S; Prerequisite: HIS240Y or HIS40Y; Session: Winter Day

HISC01F Independent Studies I / 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 educational 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 register, each time supervisor and course begin. Written work will consist of a 5,000-7,000 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 HISC01 and HISC02 and by 1 December for HISC03. See History Supervisor of Studies for detailed application procedures.
Session: Winter Day

HISC01Y The European Mentality in the Early Modern Period (1500-1700) / J.L. Peck
This seminar will examine two major cultural-intellectual developments: the witchcraft crises and the scientific revolution, which occurred in this period in a way that was new in the way of thought. Students will be major research projects, based as much as possible on primary sources. Limited Enrolment: 20.
This is a seminar course, in which each student will give one oral seminar in class, and write one or two research papers. Evaluation will be based on the seminar, paper, class discussion and two one-hour tests.
Exclusion: HIS112Y; HIS123Y; Prerequisite: One B-Level History Course
Session: Winter Day
HIS374Y European Society and Culture Between the World Wars | M. Ekstein

An examination of the impact of war, technology, economics, and totalitarianism on the social condition and mind of European man. Limited enrolment: 15.

A two-hour weekly seminar in which regular readings and discussion are expected. In the first term certain broad issues, including the problems of method, are discussed in order to establish an overview of the subject and to delineate the most significant questions and approaches. In the second term specific problems and individual research projects are pursued in detail. The research paper is the most important piece of work in the course, but a significant portion of the final grade will be allotted for participation in the seminar.

Prerequisites: HIS360/1, one B-level course in History. A reading knowledge of one or more foreign languages, although not indispensable, would be very helpful.

Session: Winter Day

HIS382Y The American Colonies and the British Empire | J. A. N. Myers

An examination of the origins of American society and institutions in the seventeenth century and their development in the eighteenth century, the origins, course and effect of the American Revolution and the Constitution and their relation to Western political thought, and the impact of the Revolution on British North America and Britain.

The class is organized as a two-hour weekly seminar, based on suggested readings, and class discussion, one brief class report and one essay per term, and a final examination will be required.

Prerequisites: Any one of HIS360, HIS362, HIS363, HIS380, HIS388 or HIS381.

Session: Winter Day

HIS388S U.S. Labour and Society 1900-1920 | W. M. Dick

A seminar examining the emergence of organized labour as a force in American Industrial Society.

The main focus will be the coping strategies adopted by different sections of the labour movement: the role of the craft trade union; the impact of new technologies; the impact of finding a place within it.

Students who wish to present to the seminar will have to write one essay. There will also be one final examination.

Prerequisites: HIS380

Session: Winter Day

HIS440F Old Katunik | J. S. More

Political, social, religious, and economic life of the Huron Indians and the interaction of Huron and European cultures. Limited enrolment: 15.

The course will be taught by weekly seminars. Evaluation will be based on oral reports, essay, class participation, and examination.

Prerequisites: HIS380Y or HIS388Y or HIS380Y

Corequisite: Field trip to be arranged

Session: Winter Evening

HIS445S Church-State Relations in Canada | J. S. More

A study based on primary source material of the connection of church and state in such areas as land endowment, educational, legal, and social issues.

The course will be taught by seminar. Evaluation will be based on weekly written assignment, class participation, essay and examination.

Exclusion: HIS364

Prerequisites: HIS380Y or HIS383Y or HIS389Y

Session: Winter Evening

HIS447Y The Course of Conservatism in Canada | W. A. McKay

An examination of the classic assumptions of conservatism and a study of the Canadian adoption of the model. Limited enrolment: 15.

A study of Bickell, Paterson, Catterall, and Fraser, and of the continuing pattern of conservative thought in Canada as it is expressed by party leaders and theorists, and as it is modified under the pressure of colonial development. The affect of conservative thinking brought about by industrialization, changes in colonial status and the emergence of the modern activist state will be studied. The course will conclude with an examination of the Conservative response to the depression of 1930-35. This will be a weekly seminar course with emphasis on research and discussion. Evaluation will be based on two-term papers and on seminar presentations. Preparatory reading: White, The Conservative Tradition.

Prerequisites: HIS360Y or HIS363Y or equivalent

Session: Winter Day

HIS452Y The Crusades | M. Genest

This seminar will consider the crusades of the 11th through 14th centuries, both in Europe and the Holy Land, as a continuation of Christianity's centuries-old struggle with paganism along its borders, as a form of colonial expansion prompted by an enormous growth of population in the 11th and 12th centuries, and as a popular weapon against heresy and political dissension within the borders of Christendom itself. 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 of the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have been raised since Ed. Gibbon completed his classic 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 unusual 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 Genest. Evaluation will be based on weekly preparation and participation 50%, term papers 50%.

Prerequisites: HIS360 or HIS363Y

Session: Winter Day

HIS477Y The Russian Intelligentsia | E. W. Dycker

The historical importance of the intelligentsia in Russia during the nineteenth and early twentieth centuries is unparalleled in the history of any other country. Not a class, but a major intellectual, social and political force, the intelligentsia encompassed the entire educated class and the political elite. A study of its origins, beliefs, role and personalities. Limited enrolment: 20.

The bulk of the course will consist of a detailed examination through the writings of some of the leading intelligentsia ideas and personalities. The fate of the intelligentsia in the Soviet Union and the 20th-century connotations of the word will also be explored. The course will be taught by seminar.

Exclusion: HIS318Y

Prerequisites: HIS380Y or GS266H1

Session: Winter Evening

HISTORY COURSES NOT OFFERED in 1979-80

HIS216F Frontier Communities in the British Empire Commonwealth: The South African Model

Prerequisites: HIS380

HIS325S British Imperialism in India

Prerequisites: HIS380

HIS333Y American Society and Thought Before the Civil War

Exclusion: HIS334Y

Prerequisites: HIS380

HIS335Y The United States since 1870: The Response to Industrialization

Prerequisites: HIS380

HIS434Y Ontario History: the 19th Century

Prerequisites: HIS380Y

HIS446F/S Canadian Religious Traditions

Prerequisites: HIS380Y

HIS447Y The Religious Fraternity in Canada: Continuity to Charismatics

Prerequisites: GIS380 or HIS380

HIS448Y Western Europe in the Seventeenth Century

Prerequisites: HIS360/1, one B-level course in History

HIS208F Anglo-Saxon England

Prerequisites: One B-level course in History or English

HIS451Y Urbanization and Social Change in 19th Century England

Prerequisites: HIS380

HIS452Y Religion and English Society, 1750-1900

Prerequisites: HIS380

Session: Winter Day

Session: Winter Day
HUMANITIES

Discipline Representatives: K. Theil

The Humanities are concerned with man’s ever-changing reflection on the human condition, with development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

Courses in the Humanities are offered by the various disciplines which comprise the Humanities Division. However, the student who wishes to explore the Humanities outside the traditional disciplines framework is encouraged to consider the courses listed below. For the most part, they offer an alternative to examination within current precise national, historical and disciplinary boundaries, opening instead to repressive subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly attractive point of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a loose historical period, or a movement of broad cultural relevance.

The HUM listings below are divided into the following broad categories (clearly some of the courses could appropriately be listed more than once), for all of which HUMA101 serves as a useful, though not a required, prequel:

(1) Civilization and Culture
(2) Myth, Religion and Reality
(3) Interdisciplinary Studies
(4) Literature in Translation
(5) Women’s Studies
(6) Film Studies

In addition, for senior students, both the Humanities Seminar and the more ambitious Individual Study Year provide a challenging alternative to a conventional programme of study.

The Humanities Programme

Superintendent of Studies: P.W. Guoch

The Humanities Programme is designed for the student who wishes what has been known as a “liberal education.” The Programme will seek to develop the critical intellectual skills of the student and to acquaint him with basic forms of approach and analysis 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. Each student will belong to a Programme Committee which will supervise his studies. A handbook on the Humanities Programme is available in the Office of the Division of Humanities.

Takes as part of a fifteen credit course degree, the student’s course of study must include the following:

(1) HUMA101
(2) At least two consecutive courses in a language foreign to the student.
(3) At least one course in each of the three Humanities areas which follow:
   (a) Language and Literature: Classics, Drama, English, French, German, Humanities, Italian, Linguistics, Russian, Spanish.
   (b) Historical Studies: Fine Art, Greek and Roman History, History, Humanities, Linguistics.
   (c) Philosophical Studies: Classics, Humanities, Linguistics, Philosophy.

Note: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. A Humanities course may satisfy any of the three area requirements, depending on its content; students should consult with their Programme Committee.

(4) At least one course from the Division of Sciences
(5) At least one course from the Division of Social Sciences
(6) HUMC301
(7) At least two courses based upon earlier courses.

Takes as part of a twenty-course degree, the student’s course of studies must include all of the courses required above and also HUMC509.

HUMA101

Prologue / Coordinators: W. Graham and M.G. White

Twenty books of central importance in Western civilization will be read. 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 its 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 (sections): Homer, The Odyssey; Sophocles, Oedipus Rex; Plato, Symposium; Herodotus, Histories; Virgil, Aeneid; Augustine, The City of God; Dante, Inferno; Chaucer de Roland; Boccaccio, Decameron. Spring Term: Machiavel, The Prince; Corneille, Don Quixote; Montaigne, Essays; Voltaire, Lives of the Artists; Voltaire, Dramatic and Historical and Philosophical and Political Ideas in the Sciences and Discoveries: 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 co-ordinators. Titles may change if editions become unavailable.

"What’s past is prologue" - Shakespeare, The Tempest, 1.1.

Session: Winter Day

HUMA102

Greek and Roman Mythology / J.J. Warden, J. Grant

An examination of the major myths and legends in the Greek-Roman world and their representation in classical literature, drama, and art. Part of the course will be concerned with ancient and modern theories of myth.

This course will be useful to students engaged in literary and area-studies and will serve as an introduction to other courses in Classics. Evaluation will be based on term tests, a slide test and two essays.

Session: Winter Day

JHD101

Introduction to Cinema

See Drama

HUM010

The Russian Revolution 1917: Promise and Paradox, Ideals and Realities / R. Cockcroft, W. Dowler, W. Graham

An exploration of its philosophical, cultural, political and literary achievements in Soviet Russia before World War II.

The Russian Revolution was born amidst a flurry of contradictory ideals and brave hopes. This course will explore these ideals and hopes in philosophy and literature against the background of the political and social realities of Soviet Russia in the 1920’s and 1930’s.

Course will be taught by lecture and discussion. Evaluation will consist of several written assignments and one final examination.

Exclusions: HUM309

Session: Winter Day

HUM015

The Civilization of Spain / J.J. Chirico-Dobie

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 will be studied with illustration by slides and other reference materials. The final mark will be composed of 50% for a final examination; 20% for an essay (2000 words) and 30% for class participation.

Exclusions: SPA100, SPA109

Session: Winter Day
HUMB180 Modern Italy / J.D. McGuire
A study of the various complex cultural elements which were involved in the formation of modern Italy.
The course acquaints the student with some of the cultural and social features of contemporary Italy as they are reflected in various works of literature, historical and journalistic texts. After a brief introduction of the topics presented in the readings, the instructor will lead the class in discussion during the weekly two-hour class sessions. Students are expected to participate in these classroom discussions (1/6 of total grade); make one oral and one written presentation of topics agreed upon with the instructor (1/2 of total grade); and write a final examination (1/5 of total grade).
Exclusion: HUMB280
Session: Winter Day

HUMB190 Beyond Consciousness / W.J. Basch
An examination of the limits of consciousness from the point of view of various disciplines in the humanities. The specific content will vary, but will focus on one of the following: communication, religion and philosophy, myth-making and poetry.
In 1978-80, Beyond Consciousness will deal with the theory and practice of communication. Emphasis will be placed on models of communication, semantics, the performing arts. A detailed bibliography for this course will be provided on the first day of class. One major essay or research paper; one take-home or class test or examination(s); classroom assignment(s).
Exclusion: HUMB31
Prerequisites: One course in psychology, philosophy, or literature.
Session: Winter Day

HUMB230 The Age of Augustus / J.R. McDonald
Rome in transition from Republic to Principate, with reading of the Aenid of Virgil as well as selections from Horace and Ovid. Representative pieces of Roman art and architecture will also be studied.
The course aims to present an integrated picture of an exciting and crucial period in Roman history. The response of Augustus Rome to questions of power, social organization, national idealism, and the quality of life will be considered as they are reflected in literature and art, with particular emphasis on poetry and architecture. Special attention will be given to the Augustan Forum, the Ara Pacis, and the "Princ Pieta" statue on the one hand, and the poetry of Vergil, Horace, and Propertius on the other. Slides will be shown and studied frequently, and discussions encouraged.
Evaluation will be by short written assignment, essay, and examination.
Session: Winter Day

HUMB280 The Age of Homer / J.M. Evans and staff
The world of Homer's heroes as described in the Iliad and revealed through archaeology. The course will cover the development of early Greek epic poetry and will offer a survey of Mycenaean remains. Required reading will include Homer's Iliad.
The objectives will be to investigate the Homeric poems as sources of history for a period of Greek civilization for which no substantial ancient documents exist (ca. 1700-1000 B.C.); to appreciate the poetic qualities of the poems and to understand something of the circumstances under which they were composed to impart a knowledge of the cultures described by Homer and known through excavation (e.g. Mycenae, Pylos, Ithaca, Troy, etc.).
Readings will be the Iliad and the Odyssey in translation; other reading as assigned. Evaluation will be based on one class test; one essay; and a final examination.
Session: Winter Day

HUMB285 Major Religious Traditions, East and West / Information available at a later date in Room RS274
An introductory study of the ideas, attitudes, practices and contemporary situation of the Jewish, Christian, Muslim, Hindu, Buddhist, Confucian, Taoist, and Shinto faiths.
The first part of the course deals with the faiths of India, China, and Japan. The faiths of the Near East, Judaism, Christianity, Islam are studied in the second part. While the course is of general interest, it will be particularly useful for students who are concerned with the history, philosophy, sociology and psychology of religion.
Students are encouraged to become familiar with the basic writings of the various religions. The text is John A. Richmond, Points of Faith.
Session: Winter Day

HUMB335 World Visions from the late Middle Ages to the Renaissance / Co-ordinator: D. Meadors
An introduction to man's understanding of himself and his interpretation of reality through a study of literature, art and society from Medieval and Renaissance sources (including Islamic and northern European). The aim of this course is to acquaint the student with some of the great achievements of Western man during the thousand years of the thirteenth centuries. Each literary masterpiece will be introduced in its historical, cultural setting. There will be guest lecturers speaking about artistic and philosophical developments of the place and period under examination. Classroom discussions will be lead by the co-ordinator as collaboration with guest specialists. Students will be expected to participate in classroom discussions (1/6 of total grade); make one oral/written presentation each term (1/3 of total grade); write one term-end and one final examination (1/2 of total grade). There will be two hours of class per week which will be supplemented by tutorials as necessary. For bibliogra-phy and further details please contact co-ordinator in RS273.
Session: Winter Day

HUMB355 'The Odyssey Factor' / J.R. McDonald
The literature of exploration: a study of a recurring motif - the Odyssey - in Greek, Latin, Medieval, and Modern literature, based on the Homeric archetypal, Odyssey.
The course traces the portrayal of an archetypal hero and the legends around him from their genesis in Greek myth and history to the present day. It explores some reasons for the hold of the Odyssey personality on the creative imagination, and considers the cultural and literary influences on it. Beginning with a close reading of Homer's Odyssey, we shall follow the figure of Odysseus as subsequently interpreted by Vergil (Aeneid Book VII), Dante (Ugernio 26), Shakespeare (Troades and Coriolanus), Joyce (selection from Ulysses), and Kazantzakis (translation from the Odyssey: A Modern Saga). Some attention will be given to the Ulysses-figure in other literature and non-literary media, and J.R.L. Anderson's theory of the 'Ulysses Factor'.
Exclusion: HUMB101/F
Session: Winter Evening

HUMB375 Atlantis / William Graham
A study of the legend of Atlantis from its origins in the writings of Plato to its connections with modern archaeological excavations on the islands of Crete and Thera. Atlantis is the paradigm of a legend, of the golden age and the great disaster, and of the search for lost civilizations. It is also a search for what is essentially human: its problems involve historical sources, literary developments, scientific investigations, philosophical, religious and occult speculations from Plato to the present. Texts: Plato, Timaeus and Critias; Dorneley, Atlantis, The Antarctic World: Cayzer, On Atlantis: Major, Voyage to Atlantis. Works: one paper: several short reading tests.
Exclusion: HUMB509
Session: Winter Evening

HUMB425 Dickens and the West / R. Cockerill
European influence on the thought and writing of Dickens.
The aim of this two hour a week course is to place Dickens in his European context, to try to determine how for his writing reflects the influence of authors such as Buzet and Dickens and how if at all he reacted against Western ideas and culture in general. Particular works studied will be Oliver Twist, Notes From Underground, Crime and Punishment and The Devils. As the course will be taught by an exchange scholar from Exeter, England, teaching methods and evaluation will be announced later.
Session: Winter Day

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HUMB41F  Italian Cinema
Information will be available at a later date in Room BU32A.
This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian. All discussions and explanations will take place in English and all films have English subtitles.
Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be shown during the course. The course will take place during four hours per week; there will be an introduction to the film followed by film viewing and discussion. The evaluation will be based on class participation (40%), essay (written at home 30%), final exam (30%). Specialists in Italian will be expected to do their written work in Italian.
Exclusion: HUB960
Session: Winter Evening

HUMC88H Humanities Seminar I Coordinator: P. Gooch
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 for those registered in the B.A. in Humanities Programme. It is required for those who have completed ten courses; other interested students may attend the seminars.
Topics for the seminars should be chosen in consultation with the co-ordinator. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.
Evaluation is based upon two papers (one longer paper) and the seminar performances.
Prerequisite: Any ten courses.
Session: Winter Day

HUMC99Y Individual Study Year I 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 areas, and will take oral examinations 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 1979. (For a year of individual study, students must enroll in all five courses. Those who wish to take Individual Studies should confer disciplinary listings.)
Prerequisite: Permission of the Division of Humanities Committee on Individual Study.

HUMANITIES COURSES NOT OFFERED in 1979-80.

HUMADY Introduction to the Study of Religion
JRH04Y The Bloomberg Group
Prerequisites: Normally three courses selected from Art History, Economics, English, Philosophy or Political Science at least one of which should be in English Literature.

HUMB17Y The European Experience: Man and Society in the Twentieth Century French and Italian Novel
Exclusion: HUMB06Y

HUMB20Y Primitive Christian Literature and Myth
Prerequisites: No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.

HUMB22R/S Age of Pericles
HUMB24R/S The Age of Nero
HUMB27S Science Fiction
HUMB28F/S Hercules: Man of Action
Exclusion: HUMB06
HUMB28Y Orpheus: The Quest for Beauty
Exclusion: HUMB06Y
HUMB28F/S Unique: From More to Huxley
Exclusion: HUMB06Y
HUMB29F/S Fantasy in Narnia and Middle Earth
Exclusion: HUMB06
ITALIAN

Discipline Representative: Antonio Franceschetti

Scarpthorugh College offers a wide range of courses on 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 ITA001 or ITA111. After ITA001 students may take ITA081 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 ITA111 can take ITA081 as a prerequisite for literature and more advanced language courses. In all courses, emphasis is given to the spoken and written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as adjunts 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 Arts, Music, and English, French, Latin, or 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 should consult Italian as well as the Modern Languages and Literatures entries in the Major Programmes section of the College Calendar.

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 in that course.

Major Programme in Italian

Supervisor of Studies: A. Franceschetti

Students are required to complete at least nine full courses (or equivalent) in Italian, including the following:

- ITA081V Dante and Medieval Culture
- One year course (or equivalent) on the Renaissance
- One year course (or equivalent) on Seventeenth and Eighteenth Century Literature
- One year course (or equivalent) on Nineteenth and Twentieth Century Literature
- One half year course on the history of the language

Language requirements will be waived in the case of students judged to have highly advanced knowledge of Italian, by permission of the Supervisor of Studies. Equivalent courses in literature will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor of Studies.

ITAA001V Introductory Italian / D. McAlister

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 sentence structure in an exercise which the practical skills of understanding and speaking needed for the conversation course. The basic Italian textbook is supplemented by dialogues made up by the students and oral readings commencing as early as possible in the textbook permits. A programme is also provided in the language laboratory for those who wish to make use of it. Students are expected to participate in classroom exercises (40% of total grade); hand in written assignments completed outside the classroom (20% of total grade); and write monthly exams (40% of total grade). There are three hours weekly of classroom.

Exclusion: ITA001

Corequisite: ITAA001V, ITAA081V; ITAA001V taken ITA081V concurrently with them in the Spring term

Session: Winter Day

ITAA081 Introductory Italian Language Practice / D. McAlister

A full year course for one half credit. Practical application of the language structures introduced in ITAA001V, ITAA081V. As with the corequisite, this is an opportunity to provide a relaxed, friendly environment for those who wish to develop their own dialogues and conversations based on situations and topics of interest.

Corequisite: ITAA001, ITAA081

Session: Winter Day

ITAA005 Conversation I / D. McAlister

Practical application of the language structures introduced in ITAA001V and ITAA081V. Students are encouraged to speak Italian in 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 covered are the geography, history, politics, economics and cultural life of contemporary Italy. Students are expected to participate in classroom discussion (40% of total grade); make oral presentations (30% of total grade); and take oral examination (30% of total grade). There are three hours weekly of class time.

Corequisite: ITAA001 or ITAA11

Session: Winter Day
ITA311Y Elementary Italian I / Information will be available at a later date in Room R332A

An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

The course, designed for native speakers, aims at giving a basic knowledge of speaking, reading, and writing Italian. The main objective is to free the student of the phonological, lexical and grammatical interference from both dialects and English, as commonly mixed in the Italian community. Basic grammar rules will be studied and modern prose passages will be analyzed from the point of view of grammatical structure, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. There will be three hours of lecture per week, the use of the language laboratory is highly recommended. Evaluation will be based on oral and written exams (30%), class participation and work done at home (30%).

Exclusion: ITA405
Corequisite: It is strongly recommended that students enrolled in this course take ITA300S concurrently with it.

Session: Winter Day

ITA300Y Intermediate Italian I / Information will be available at a later date in Room R332A

The continuation of ITA301Y (Introductory Italian). 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 will alternate with reading and discussion of modern Italian passages in prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write commentaries or summaries of the readings discussed in class. The course will be conducted in Italian whenever possible. There will be three hours of lectures per week. The final mark will be based on six written exams (30%), class participation and work done at home (30%).

Exclusions: ITA302S; ITA311Y
Prerequisites: ITA301Y or equivalent
Corequisite: It is strongly recommended that students enrolled in this course take ITA300F and ITA300S concurrently with it.

Session: Winter Day

ITA301F Intermediate Conversation I / A. Franceschini

An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idiom and special constructions focusing on Italian culture and civilization. This course offers the opportunity to those who need it to improve their oral/natural skills in Italian. Students will be expected to prepare topics of current interest for discussion in class by doing background reading on the topics and by preparing the specialized vocabulary of those topics. At least two oral reports on an agreed-open topic related to Italian culture and civilization will be required of each student. The course will meet three hours per week. The final mark will be based on class participation (40%), oral reports (30%) and final oral examination (30%).

Corequisites: ITA300Y or ITA311Y

Session: Winter Day

ITA305S Intermediate Conversation II / Information will be available at a later date in Room R332A

A continuation of ITA305.

This course aims at developing as fully as possible the student’s facility with the language and will continue the program outlined in ITA300B. The same evaluation will be used for ITA300B.

Corequisites: ITA311Y or ITA301Y

Session: Winter Day

ITA310Y Intermediate Italian III / Information will be available at a later date in Room R332A

The continuation of ITA311Y (Elementary Italian). The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of modern Italian passages in prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write commentaries or summaries of the readings discussed in class. The course will be conducted in Italian. There will be three hours of lectures per week. The evaluation will be based on six written exams (30%), class participation and work done at home (30%).

Exclusion: ITAB06; ITAB10S
Prerequisites: ITA311Y; Grade XIII or equivalent
Corequisites: It is strongly recommended that students enrolled in this course take ITAB06F and ITAB06S concurrently with it.

Session: Winter Day

ITA308S Modern Italian Culture and Civilization / Information will be available at a later date in Room R332A

An introduction to the events and ideas which have contributed to the making of modern Italy. This course is conducted in Italian. It aims to acquaint the student with the complex social and cultural milieu in which life is conducted in present-day Italy. Readings from a variety of literary and historical texts as well as selections from newspapers and periodicals form the basis for the three weekly hours of discussion of topics outlined by the instructor. During the course of the term the student is expected to contribute to the classroom discussion (13% of total grade); make at least one oral/written presentation on a topic agreed upon with the instructor (13% of total grade); write a final exam (13% of total grade).

Exclusions: HUM318
Prerequisites: ITA306 (ITA302Y) or ITAB11

Session: Winter Day

ITA311Y Introduction to Italian Literature / D. McAuliffe

A survey of Italian literature, from the Middle Ages to the present.

This course is designed to provide the student with a general background in Italian literature. The first part of the course is concerned with acquainting the student with the methods and language of critical analysis of literary texts. In the second part of the course major representative figures of Italian literature will be studied in the context of major literary movements. One hour per week will be given to the instructor’s presentation of the material; one hour will be given to discussion by the students of the texts being studied; and an additional hour of tutorial per student every second week will be available to guide the student in their written analyses of the texts. The grade will be based on class participation (20%); written essays (40%); exams (40%). Normally conducted in Italian.

Prerequisite: ITAB01 (ITA302Y) or ITAB11

Session: Winter Day

ITA307F Modern Italian Theatre from Pirandello to the present day / Information will be available at a later date in Room R332A

A comprehensive view of the main currents and themes in Italian theatre during the twentieth century.

The course will study the development of Pirandello’s theatre with its revolutionary innovations in form and content, and will show how these innovations influenced all subsequent Italian drama. Special attention will be given to Pirandello’s use of “naturalism”, of the “teatro detto grotesco” and of myths, and to his concern with the problem of identity, responsibility and guilt. Pirandello’s work will be related to the works of other Italian dramatists, and in particular to Benni, Febbri and De Filippo.

There will be three hours of lectures per week. The evaluation will be based on class participation (25%), essay (s) written at home (35%), and a final exam (30%).

Exclusion: ITA315S, ITA316S, HUM395S
Prerequisites: ITAB01 (ITA302Y) or ITAB11

Session: Winter Day
ITAL353 Machiavelli and Renaissance Thought (A. Franceschetti)
The origins of Italian Humanism with Petrarch and Boccaccio; its development in the XV Century with Valla, Pico and Pius II; its fullest flowering in the Renaissance with the political theories of Machiavelli and Guicciardini. A study of Cosimo's figure of the Courtier.
The purpose of this course is to acquaint the student with the ideas, mentality, social and cultural attitudes of men during the Renaissance. After a general introduction to the main aspects of the period, its differences from the Middle Ages and its historical background, attention will focus on Machiavelli's The Prince and Castiglione's Il Cortegiano. These works will be examined both from the point of view of their significance in the context of Renaissance thought and for their impact on the development of European politics and of the ideal of the gentleman up to modern times. There will be three class hours per week. The final mark will be based on tests (40%), one home assignment (30%) and class participation (30%).
Exclusion: HUMB90
Prerequisites: ITAB01 or ITAB02 or ITAB11
Session: Winter Day

ITAL350-35F
ITAL355-39S
ITAL45Y Supervised Reading (C. Stoff)
These courses are designed to provide advanced students an opportunity for independent studies of specific aspects of Italian language and literature at the student's choice. The study is expected to be done on the reading by himself and to meet regularly with a faculty member to discuss problems arising from the chosen topic of study. The teaching method and the evaluation will vary according to the subject matter and the individual student. Interested students should contact Professor A. Franceschetti.
Prerequisites: ITAB01 (ITAB02) or ITAB11
Corequisites: ITAB21 or ITAB31
Session: Winter Day

Italian Cinema
One listing under Humanities: HUMB71F
For Italian Courses in translation
Over learning under Humanities:
HUMB18S Modern Italy
HUMB28S Machiavelli and Aspects of the Italian Renaissance
HUMB34F The Crisis of Contemporary Society in Modern Italian Drama

ITAL369S Italian Cinema
(See listing under Section for Joint Courses)

ITAL41Y Language Practice (A. Franceschetti)
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. The course will cover specific points of grammar, syntax and style will be discussed and exemplified with drills and exercises. Students will be asked to do translations and to write short compositions. A selection of passages of modern Italian authors will provide the necessary material for analysis of styles, summaries and paraphrases. There will be three hours of class per week. The final mark will be based on term tests (50%), class participation and work done at home (90) and oral presentation (20%).
Prerequisites: ITAB01 (ITAB02) or ITAB11
Session: Winter Day

COURSES NOT OFFERED in 1979-80
ITAL54F/5 Advanced Composition
Prerequisite: ITAB01 (or ITAB02)

ITAL54S Practical Translation
Prerequisite: ITAB01 (or ITAB02)

ITAL55S The Twentieth Century Novel
Prerequisite: ITAB01 (or ITAB02)

ITAL56S Modern Italian Poetry
Prerequisite: ITAB01 (or ITAB02)

ITAL57Y Dante and Medieval Culture
Prerequisite: ITAB01 (or ITAB02)

ITAL58F Petrarch and Boccaccio
Prerequisite: ITAB01 (or ITAB02)

ITAL59F The Renaissance Epic
Prerequisite: ITAB01 (or ITAB02)

ITAL60S Italian Sixteenth Century Theatre
Prerequisite: ITAB01 (or ITAB02)

ITAL61F Lyric Poetry of the Renaissance (from Politiano to Michelangelo)
Prerequisite: ITAB01 (or ITAB02)

ITAL62F Reformation and Baroque Literature
Prerequisite: ITAB01 (or ITAB02)

ITAL63F Italian Eighteenth Century Theatre
Prerequisite: ITAB01 (or ITAB02)

ITAL64F/5 Foscolo and Leopardi
Prerequisite: ITAB01 (or ITAB02)

ITAL65F/5 Manzoni
Prerequisite: ITAB01 (or ITAB02)

ITAL66F/5 The Nineteenth Century Italian Novel in Transition
Prerequisite: ITAB01 (or ITAB02)

JOINT COURSES
The following courses are offered jointly by these disciplines:
Biology and Chemistry
JBCB31Y Introductory Biochemistry
JBCB31H Laboratory in Chemistry

Commerce and Economics
JCEB31S Industrial Relations
JCEB21F Analysis for Decision Making I
JCEB32S Analysis for Decision Making II
JCEQ21Y Corporation Finance
JCEG40S Public Policy Towards Business

Commerce and Sociology
JCSB27Y Organizational Behavior

Mathematics and Computer Science
JMCES1F Combinatorics
JMCES3S Numeric Methods

Mathematics and Philosophy
JMPB10F Symbolic Logic
JMPB51S Symbolic Logic II

Physics and Astronomy
JPAC31Y Relativity and Cosmology

Physics and Mathematics
JPMC2S Advanced Classical Mechanics
JBC88Y Introductory Biochemistry / J.W. Good
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 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 lecture exams; one two hour Christmas exam and one final exam.
Exclusions: (BIOD130) (CHMB130)
Prerequisites: BIOA50 (CHMB50)
Session: Winter Day

JBC88H Laboratory in Biochemistry / J.W. Good
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, including: Spectrophotometry; chromatography; radiotopes; 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, two hour exam at Christmases and a final exam).
Exclusions: (BIOD130) (CHMB130)
Prerequisites: BIOA50 (CHMB50)
Session: Winter Day

JCE84S 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.
Evaluation will be based on a mid-term test and a final examination.
Exclusions: ECON301
Prerequisites: ECON101
Session: Winter Evening

JCE87F 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: (ECOS180) (ECOS181)
Prerequisites: MAT106 OR MAT108 OR OSC108 OR OSC180, OR MAT202 OR MAT204 OR MAT206 OR MAT208, ECOS101
Session: Winter Day

JCE87S Analysis for Decision Making II
A continuation of JCE87F 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: (ECOS280) (ECOS281)
Prerequisites: ECOS101, ECOS102
Session: Winter Day

JCO80J Corporate Finance
An overview 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 course test and a final examination.
Prerequisites: COMB01; ECOB11; ECOB11
Session: Winter Day

JCEC885 Public Policy Towards Business / J.R. Saunders
A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include: regulation in theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and public ownership.
Exclusions: ECOB41
Prerequisites: ECOB41
Session: Winter Day

JCSS27Y Organizational Behaviour / J. Henttonen
Examines socio-cultural 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 interdependent organizations.
Exclusions: (COMM270) (ISOC270)
Prerequisites: One previous course in Sociology, Commerce, Economics, or Political Science.
Session: Winter Day, Winter Evening, Summer Evening

JMC81F Combinatorics / J. Mendelsohn
A brief survey of the field of discrete mathematics with emphasis on problem solving. Elementary counting, generating functions and difference equations, permutations with restriction, Polya counting, graph, network flow problems, balanced incomplete block designs, incidence structures.
Exclusions: MATR85 and at least one other B level course in mathematics or computer science.
Other recommended Courses: CSCA50F
Session: Winter Day

This course not to be offered 1980-1981.

JNC81S 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 comparison, 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 programs. 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 programs is FORTRAN, for which a brief review will be given.
Exclusions: (MATB80)
Prerequisites: MATA40, MATB42 or MATB55, CSCA48
Session: Winter Day

JMP80F Symbolic Logic I / A. Gomberg
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 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 mathematical interest are presented in lectures by professors and other materials by the instructor, copies of which are distributed. But the emphasis is on techniques.
Prerequisites: PHIL50, MATB80
Session: Winter Day

JMP81S Symbolic Logic II / A. Gomberg
A continuation of JMP80F.
We shall deal with such topics as identity, definite descriptions and the meta-theory of standard elementary logic.
Prerequisites: PHIL50 or PHIL50 or MATB80
Session: Winter Day
JPAC410Y Relativity and Cosmology
A brief review of the special theory of relativity and of the mathematical background of general relativity theory. 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 1979/80. Consult Divisional Office or Astronomy discipline representative.
Exclusions: ASTC108, PHYS10
Prerequisites: PHYS101, PHYS110, PHYS110F would be desirable
Session: Winter Term

JPSC42S Advanced Classical Mechanics
Exclusions: PHYS446, MATH546, PHYS432, MATH432
Prerequisites: MATH41 or MATH51, PHYS401 or PHYS402

COURSES NOT OFFERED in 1979/80

Linguistics and Psychology
JLPH55F Psycholinguistics
Exclusions: LIN485, PSY487
Prerequisite: LIN480Y

Mathematics and Computer Science
JMC400S Applied Algebra

LATIN
Courses are offered in introductory Latin (LATN10), LATN10 and Latin literature (LATN10, LATN30, etc.).
For further information see under Classical Studies.

LATN10 Introductory Latin
LATN10F Introduction to Latin Authors
LATN10F Caroillis
LATN200, 201, 205 Latin Literature 1
LATN205 Supervised Reading
LATN300, 325 Independent 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 ton of interest reflected in LIN401, LIN411, and LIN404. Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LIN407, JLPH35, LIN415 and other courses.
Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LIN404, LIN409, LIN456 and LIN427.

For those majoring in General Linguistics, Psycholinguistics, Sociolinguistics, see the appropriate section of the Calendar. In addition to the courses listed here, the following courses in other disciplines will be of interest.

ANTH16 Ethnolinguistics
ENG001 Old English Language and Literature
FREN22 Introduction to French Linguistics
FREN25 The French Language in Canada
FREN36 Principles of Lexicography and Their Application to Modern French
GER33 Structure of German
GER335 History of German
GERC3 Introduction to Middle High German
PHL10 Philosophy of Language

Major Programme in Linguistics
Supervisor of Studies: J.D. Woods
The major programme in Linguistics may be taken in one of three ways, each of which requires five basic courses and further courses in other related disciplines as set out in the sub-programme.

General Linguistics Sub-programme
Students must complete within a twenty course programme the following courses in Linguistics:
(1) LIN401 or LIN403 General Linguistics
(2) LIN401 or LIN403 and LIN406 Syntax and Semantics
(3) LIN412 or LIN412 and LIN406 Phonology and Historical/Comparative
(4) LIN407 or two of JLPH55, LIN415, LIN427 Sociolinguistics or Psycholinguistics
(5) LIN421 or LIN422 or LIN410

Students must also complete two full courses of language study in a language which is neither their native tongue nor a language which they studied before entering the College. They also must complete two courses in Linguistics or in some related field, selected with the approval of the Supervisor of Studies.

Psycholinguistics Sub-programme
In addition to the five basic courses listed under the General Linguistics Programme, which must include two of JLPH55, LIN415, and LIN427, students must complete:
 Two further courses in Linguistics to be approved by the Supervisor of Studies or two full course equivalents of Language study in a language which is neither their native tongue nor a language which they studied before entering the College, and four full-course equivalents from the following:

- PSY401 or (PSY402) Introduction to Psychology
- PSY410 Data Analysis in Psychology
- PSY420 Developmental Psychology
- PSY430 Learning
- PSY441 Operant Conditioning
- PSY450 Sensation and Perception
- PSY460 Perceiving and Knowing
- PSY472 Human Information Processing
- PSY477 Human Learning and Memory
- PSY480 Brain Mechanisms and Behaviour: I
- PSY485 Biological Foundations of Behaviour

Students are also encouraged to complete a course in Calculus or Statistics.

Sociolinguistics Sub-programme
In addition to the five basic courses in Linguistics (which must include LIN403) under the General programme, students must complete:
 Two further courses in Linguistics to be approved by Supervisor of Studies or two full course equivalents of Language study in a language which is neither their native tongue nor a language which they studied before entering the College, and all of the following courses:

SOC441 or SOC442 Introduction to Sociology
SOC401 Methods in Social Research

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LIN410Y  General Linguistics / D.M. James

In the introductory course various methods of linguistic analysis will be discussed, as well as the formal and content systems which comprise language. Among the questions addressed will be the processes of producing and comprehending speech, first and second language acquisition, and the ideal structures underlying actual utterances. Who talks, why and when? Do you ever meet anyone who says a talking dog? How did the first people learn to talk? How do you make talking noises? What are those noises like? How do you know what any of this means? How many languages are there anyway? Did you ever meet anybody who met anyone who says a talking dog? There will be lectures, discussions, films.

Exclusion: LIN405
Session: Winter Day

LIN406F  Introduction to Language / J.S. Whalen

A general introduction to the nature of language. The relationship of written and spoken language. History of English and related languages. Languages of the world. The problem of bilingualism in Canada. Animal communication. Speech disorders. This is a non-technical introduction; it does not serve as a prerequisite for further linguistic courses. The course will try to examine language communication: under what conditions it takes place, how it modifies and affects the human condition and the quality of social life and in turn modified and affected by them. There will be lectures, discussions, films. The text used will be Haugen/Boas/Field Language as a Human Problem (1976). Evaluation will be on the basis of two term tests and one term paper.

Exclusion: LIN001
Session: Winter Day

LIN405  Introduction to Language / D.M. James

A general introduction to the nature of language. The relationship of written and spoken language. History of English and related languages. Languages of the world. The problem of bilingualism in Canada. Animal communication. Speech disorders. This is a non-technical introduction; it cannot be used as a prerequisite for further linguistic courses. The course will try to answer questions like: In what ways can languages differ from one another? In what ways are they all alike? How do languages change? How did language originate? How do children learn to speak? Are some languages better than others? Do men and women speak differently? There will be lectures and discussions.

Exclusion: LIN001
Session: Winter evening

LIN405  Phonology / J.D. Woods

The sounds of language and their analysis: theoretical approaches to the sound patterns of various languages. Syntactic and phonetic views of sound both and sound change. An introduction to phonological theory and method, especially such areas as segmental phonology, phonological patterns, distinctive features, reductions, phonological processes, phonological rules, underlying representations, formal rules, derived representations, phonological effects, and natural phonology. We will discuss material from the text and problems which are to be solved. Evaluation is based on class participation and tests; exact proportions of these components in the final grade will be determined later.

Exclusion: LIN001
Prerequisite: LIN405
Session: Winter Day

LIN405  Historical and Comparative Linguistics / Information will be available at a later date in HSY4.

Language change and language relationships: linguistic typology; language universals. The Indo-European family and other language families.

This course is made up of the process of linguistic change. Time. There will be a survey of the internal history of the Indo-European language family and discussion of selected topics drawn from various languages within the group. The course will meet three times a week for one hour. Evaluation will be based on an in-class and final examination, one research paper and class presentations. Texts will be Theories of Syntax, Historical Linguistics, (Cambridge University Press, 1977) and Alan Walker, Readings in Historical Linguistics, (Holt Rinehart, New York, 1972).

Exclusion: LIN001
Prerequisite: LIN405
Session: Winter Day

LIN407Y  Sociolinguistics / S. Whalen

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, bi- and multilingualism, 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 The Social Significance of Speech, T.S. Pratt & H.K. Platt, North Holland Publishing, 1975. Evaluation will be on the basis of three term tests, class presentations and participation in research.

Prerequisites: LIN405 or LIN415 or SOCA01 or SOCA02
Session: Winter Day

LIN405  Scripts / J.I. Busch

Alphabets and other writing systems, their history, development and use, hieroglyphics, cuneiform, and other ancient scripts. History of the Latin and related alphabets. There will be lectures and discussion, some assignments. Evaluation will be on the basis of one in-class exam, one take-home exam; assignments may be graded, but the final grade may not be based on these grades.

Prerequisites: LIN401 or LIN404
Session: Winter Day

LIN405  Phonology / 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 the human body. 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. Evaluation is based on class participation and tests; exact proportions of these components in the final grade will be determined later.

Prerequisites: LIN400 or LIN405
Session: Winter Day

LIN411Y  Syntax and Semantics / D.M. James

The study of sentence structure, including the major grammatical processes, e.g. transformational rules, the principle of the cycle; etc., the relationship between syntax and semantics; grammatical and lexical meaning; literal vs. conveyed meaning, presuppositions, the influence of intralinguistic context on semantic interpretation. The emphasis will be on language as a code system used for communication. What are the rules of the communication game? How do people analyze and transform utterances into ideas and vice-versa? Students will be expected to analyze data and propose and argue for solutions. There will be lectures and discussions. Evaluation will be on the basis of four or five examinations, partly in-class and partly take-home; one paper. There will also be frequent homework assignments, to be handed in although not necessarily graded.

Exclusion: LIN400; LIN405
Prerequisites: LIN405 or LIN400
Session: Winter Day
LIN128S

Developmental Psycholinguistics / P.H. Solis
The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing. This course is a combination of JLPB55.
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 on the basis of one one-hour test, three brief three-page "papers" and one final examination.
Prerequisites: JLPB55 or JLPB55 or LIN128T
Session: Summer Evening

LIN228S

Languages of the World / J.S. Whalen
A survey of the world’s languages; their manifold diversity and underlying uniformities. Attempts at classification: typological, genetic and areal. Methodological approaches and sample studies.
Presentation of the world’s known language families and their interrelationships. Comparison of their phonological, grammatical and lexical structures: the fundamental laws governing semantic and structural universals of natural languages. Theoretical criteria used in language classifications.
There will be two hours of lecture and discussion per week. Evaluation will be based on two one-hour tests, one term paper, and class participation.
Prerequisites: LIN108H, LIN108M, or one course in Psychology or Anthropology
Session: Spring Day

LIN227F

Animal Communication / J.R. Benard
The ways in which various non-human species convey information. Crickets and bees; fish, songbirds; guinea, chimpanzee; primates other than men will be studied. Visual, olfactory and auditory modalities.
Where do bees find nectar? How does a cypnet find its mother? Which wolf is boss? Why do fish school? How does a stickleback know when he’s in a foreign territory? Who are Clever Hans, Viki, Gusi, Sarah, Weishe, and Larry? Who are Lorenz, Smith, Thorpe, Tschersig and von Frisch? There will be lectures, discussions, and films. Evaluation will be on the basis of one in-class test, a paper, and a final examination.
Prerequisite: One course in LK, PSY, SOC, or ANT
Session: Winter Day

LIN228F

Language and Sex / J.O. M. James
Linguistic differences between males and females as regards the structure and use of language, and what languages can tell us about how males and females are viewed by their speakers.
Do women speak more "correctly" than men? Is women’s speech more polite? Do men speak more "feminine"? Do women talk more than men? Evidence for and against such hypotheses will be discussed. Sex-linked speech differences in other languages will also be examined, and also non-verbal communication. In addition, we will look at phenomena which reveal attitudes towards the sexes, such as sex-specific proper names and the use of noun classifiers in various languages. The underlying causes of these phenomena will be discussed. There will be lectures and discussions. Evaluation will be based on two examinations and a project.
Prerequisite: One full course or equivalent in LIN, SOC, ANT, ENG, or PSY
Session: Winter Day

LIN393F

Psycholinguistics
LIN392F
LIN391F
LIN390S
LIN393Y

Supervised Reading / J. Staff
Interested students should contact Professor J.D. Woods, Discipline Representative. The aim of these courses 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 Linguistics courses which the student has already taken, and in an area which is of the student’s own choosing. Methods of research and the evaluation are in varied as the possible areas of research.
Exclusion: JAR005T
Pre- or Corequisite: LIN391F, LIN393Y
Session: Winter Day

This course puts 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 this 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 student’s contribution to the grammar; exact proportions of these components in the final grade will be determined later.
Exclusion: LIN390S
Pre- or Corequisite: LIN391F, LIN393Y
Session: Winter Day

COURSES NOT OFFERED in 1979-80
JLPB35F, Psycholinguistics
LINC10Y, Studies in Syntax and Semantics
LINC12F, Diatopics
LINC22Y, Comparative Study of Language Family or Area

MATHEMATICS

Staff member responsible for curriculum: M. Evans

Mathematics has emerged over the centuries from primitive needs to count and to measure into a modern sophisticated system of interacting axioms, theorems, conjectures and proofs. Some areas of mathematics are very abstract, being intellectual studies devoid, at present, of any practical application. Research in these branches of the subject arises from pure creative curiosity, from the need to understand, and to prove to others, that certain consequences follow rigorously, without ambiguity, from a set of precisely formulated mathematical definitions and axioms. However, many mathematical discoveries have had practical applications, because once a problem has been described in mathematical terms it is easier to analyze. Of course, not all problems can be formulated in this manner, but the applications of mathematics extend beyond the physical sciences and engineering to all areas of knowledge that are subject to quantitative analysis. Sometimes mathematical results guide and stimulate analogous scientific research, and sometimes mathematical theories originate in science, leading on the one hand to more abstract theories, and on the other to further applications.

The Mathematics Programme is divided into four sections:
(a) MAT22 is a pre-requisite for some non-science programmes. Completion of this course does not qualify the student to proceed to further courses in Mathematics or Computer Science.
(b) MATAS, MATA, 1A1-246, 252-557, E41, IPMAC2, 252-557, E41, IPMAC2.
These courses, primarily for science and social science students, emphasize practice in mathematics, rather than full rigor.
Major Programme in Mathematics and Physics

Supervisor of Studies: P.J. O’Donnell (Physics), and T. Callahan (Mathematics)

Students should complete at least eight courses as specified below.

(1) In the first year of full-time study (or equivalent):
   PHY100Y; MATA04Y; MATA35S; MATA55Y

(2) In the second year of full-time study (or equivalent):
   PHY240Y; PHY260F; PHY261S; PHY261F; MATH25F; MATH25S; MATH25F; MATH25S; MATH35S; MATH55Y (St. George)

(3) In the third year of full-time study (or equivalent):
   PHY350Y; PHY351Y; PHY352F; MATH352F; MATH352S; MATH55Y; APM425Y (St. George)

(4) In the fourth year of full-time study (or equivalent):
   PHY450Y; MATH35Y or MATH35F; MATH55Y or MATH55Y; APM425Y; APM425F; and two other 400-level (St. George) physics courses.

*JAPAC0Y or (MATA55F; APM425F) can be substituted for one of these.

MATA32Y Techniques of Calculus (T. Callahan)


MATA32Y introduces the basic techniques of the calculus and their standard applications. The course structure is lectures and tutorials.

Exclusions: MATA32, MATA53

Prerequisite: One Grade 13 course in Mathematics

Session: Winter Day

MATA25S Thinking Mathematically (J. Macdonald)

Why are some lights the height they are? Is it more economical to buy large potatoes or small ones? These and many other questions from day to day life can be answered rationally by thinking about simple mathematical models. We will work with pocket calculators and consider a collection of problems which will lead us to such topics as exact and approximate calculations, modular arithmetic, iteration and recursion, graphs and networks and the role of diagrams and symbols. The purpose of this course is to show how mathematics applies in the real world. It will be a useful supplement for any mathematics course including MATA25Y.

Students must have a pocket calculator with logs and memories. Readings will be assigned from printed notes supplied at cost under $2.50. This course is offered by Professor Mason of the Open University in England and will be based on techniques developed there. It will include a strong emphasis on student participation. The course structure is Lectures.

Note. This course may not be used towards the eleven mathematics courses required in the Mathematics major programme.

Prerequisite: One Grade 13 course in Mathematics or permission of instructor.

Session: Summer Evening

MATA26Y Calculus with Linear Algebra (J.S. Halperin, P. Keast and one other)


MATA26Y introduces the basic techniques of the calculus, and stresses their use in the analysis and solution of problems. This requires a good understanding of the underlying ideas, which is achieved through the investigation of specific examples rather than general theory. Students will find this a demanding but rewarding course, which will equip them for more scientific applications.

The course structure is lectures and tutorials.

Exclusion: MATA26Y, MATA53

Prerequisite: One Grade 13 Calculus course.

Sessions: Winter Day, Winter Evening, Summer Evening
MAT440F  Introduction to Linear Algebra / E. Mendelson, J. Wilkes
The study of vector spaces, bases, dot products, cross products, subspaces, linear independence, bases, dimension, matrices, systems of linear equations, linear transformations, matrix of a linear transformation, general applications.
This is a course intended for serious students who plan to continue with mathematics and/or science. The subject matter is abstract and demands a great deal of time and effort to master. However, if you are prepared to work hard, this is a very rewarding course and well worth the effort. The course structure is lectures and tutorials.
Prerequisite: Grade 13 Functions and Relations or Grade 13 Calculus or Grade 13 Algebra.
Session: Winter Day

MAT446S  Linear Algebra I / E. Mendelson
A generalization of the topics covered in MAT440 to abstract vector spaces. Eigenvalues, eigenvectors, change of basis, diagonalization of a matrix.
This is a course intended for serious students who plan to continue with mathematics and/or science. The subject matter is abstract and demands a great deal of time and effort to master. However, if you are prepared to work hard, then this is a very rewarding course and well worth the effort. The course structure is lectures and tutorials.
Prerequisite: MAT440
Session: Winter Day

MAT35Y  Calculus / P. Lorch
This course is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on rigour and proofs. The course will treat the concepts of the calculus, their logical relations, how to bring problems from other disciplines within this framework and how to solve them. The course structure is lectures, tutorials, assignments and tests. The method of evaluation is weekly homework assignments, three term tests (October, December, and February) and a final examination.
Exclusions: MAT422, MAT426
Prerequisites: Grade 13 Functions and Relations, Grade 13 Calculus.
Session: Winter Day

MAT35Y  Geometry / J. Willes
The course explores some facets of present-day geometric research. In addition, the interplay between geometry and algebra is emphasized. The course structure is three lectures per week.
Prerequisite: MAT445
Session: Winter Day

MATB1F  Linear Algebra II / J. McCool
Dual spaces, linear functionals, the double dual, the transpose of a linear transformation, polynomial algebras over a field, prime factorizations in F[x], elementary divisors. The theory of a single transformation, determinants, Cayley-Hamilton theorem, invariant subspaces, primary decomposition, rational canonical form, Jordan form. Introduction to bilinear forms and inner product spaces.
The course structure is three lectures per week.
Prerequisite: MAT445
Session: Winter Day

MATB1F  Techniques of the Calculus of Several Variables I / J.S. Holperin
The course structure is lectures and tutorials.
Exclusions: MATB50
Prerequisites: MATA20 or MATA55
Session: Winter Day, Summer Evening

MATB2S  Techniques of the Calculus of Several Variables II / J.S. Holperin
Double and triple integrals together with applications to geometry and physics. Various coordinate systems and change of variables in multiple integrals, surface integrals. The theorems of Gauss and Stokes. Sequences and series of numbers and functions. Taylor series and Fourier series.
The course structure is lectures and tutorials.
Exclusions: MATB50, MATB55
Prerequisite: MATB41
Session: Winter Day, Summer Evening

MATB4S  Linear Algebra III / J. McCool
Inner product spaces, bilinear forms, Sylvester's Law. Topics chosen from orthogonal and symplectic geometry, Weyl's theorem, curves 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: MATB40
Session: Winter Day

JMPB5F  Symbolic Logic
(see Jane Courses)

MATB5F  Analysis / R.W. Sharpe
The course structure is three lectures per week.
Exclusion: MATB41
Prerequisite: MATA45, MATA55
Session: Winter Day

JMPB5F  Symbolic Logic II
(see Jane Courses)

MATB2F  Probability and Statistics I / M. Evans
The course structure is three lectures and tutorials.
Exclusions: PSY100, ECON11
Prerequisite: MATA45 or MATA55
Session: Winter Day

MATB5S  Analysis II / R.W. Sharpe
The topology of n-dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of n-forms. Exterior calculus. Line integrals, winding number, Green's theorem. Surface integrals and Stokes' theorem (Mathematical sign is emphasized.)
The course structure will consist of three lectures per week.
Exclusion: MATB41
Prerequisite: MATB50
Session: Winter Day
MATB705 Probabilities and Statistics II / M. Evans

The course structure will consist of lectures and tutorials.
Prerequisite: MATB37S
Session: Winter Day

MATB706 Introduction to Number Theory / J. Wilkes

MATB835 will be an exploratory course. The material to be studied will be chosen on its own merit, 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 fascinated mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential. The course structure will consist of three lectures per week.
Prerequisite: MATA4S
Session: Winter Day

JMC313H1 Combinatorics
(See Joint Courses)

MATC325 Advanced Topics in Mathematics / J. Kaplun
Prerequisites: MATA35S and MATB42S or MATB53S
Session: Winter Day

This course not to be offered 1989-1990.

JMC34S Advanced Classical Mechanics
(See Joint Courses)

MATC44F Algebraic Structures I / E. W. Ellers
An introduction to group theory and algebra. Groups, their homomorphisms and structure. Representation of groups by permutation groups, isomorphism theorems and some of their implications. Sylow theorems. A similar study of rings and fields.

Prerequisite: MATC44S and one other B-level Mathematics course
Session: Winter Day

MATC45F Algebraic Structures II / E. W. Ellers
The structure of finite division rings and of division rings over the real numbers.
The course structure consists of three lectures per week.
Prerequisite: MATC44F
Session: Winter Day

JMC35S Numeric Methods
(see Joint Courses)

MATC51F Differential Equations I / J. Kaplun
Prerequisites: MATB42S/MATB45F or MATB53S may be taken concurrently with
MATC51F
Session: Winter Day

MATC52F Experimental Design / J. Evans
The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted randomization schemes. Factorial designs.
The course structure consists of three lectures per week.
Prerequisites: MATB57S, MATA40
Session: Winter Day

MATC53F Differential Geometry I / J. Kaplun
Prerequisites: MATB35S/MATC51F
Session: Winter Day

MATC56F Complex Analysis I / P. Loch
The course structure consists of three lectures per week.
Prerequisites: MATB35S or MATB42S
Session: Winter Day

MATC683 Complex Analysis II / P. Loch
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 consists of three lectures per week.
Prerequisite: MATC640
Session: Winter Day

MATC675 Regression Analysis / J. Evans
The statistical analysis of linear models. Transformations. The analysis of covariance. Bayesian, Computational procedures.
Prerequisite: MATB75S
Session: Winter Day

COURSES NOT OFFERED in 1979-80
MATC350 Real Analysis
Prerequisites: MATB40, MATB55

COURSES NOT OFFERED in 1980-81
MATC325 Advanced Topics in Mathematics
JMC313H1 Combinatorics
MEDIEVAL CIVILIZATION

Supervisor of Studies: Michael Cerveris

The courses in this programme 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. Students wishing to select it as a major will be expected to complete ten full courses (from the following areas): 1) History; 2) Language and Literature; 3) Philosophy and Religion; and 4) The Arts (Fine Art, Archaeology, Drama and Music). They are to select three courses each from three of the four areas, and one from the remaining area. HIST401Y is required of all participants. Two of the ten courses must be Clevel seminars or Clevel 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. Students should consult the supervisor of studies about their individual programmes and course selection.

History
ANTB41S Pre-Industrial Technology
HIS207Y Russia from the Thirteenth Century to the Present
HIS210Y Europe in the Middle Ages
HIS217Y Europe, 400-1000
HIS218Y The Beginnings of France: Constantine to Charlemagne
HIS230Y Anglo-Saxon England
HIS231Y The Crusades
GERH10Y Roman History from the Gracchi to Nero
GERH30S History of German

Language and Literature
ENGB01Y Old English Language and Literature
ENGB02Y Chaucer
ENGB03Y English Drama to 1642
ENGC01Y Advanced Studies in Beowulf and other Old English Poetry
ENGC03Y Studies in Middle English Language and Literature
FRAC02Y General History of the French Language
FRAC03Y Introduction to Medieval French Language and Literature
GERB30S History of German
GERC03Y German Literature before 1775
GERC32Y Introduction to Middle High German
HUMC01YF Lyric Poetry of the Middle Ages in the Mediæval Area
ITAB10Y Dante and Mediæval Culture
ITAB20Y Petrarch and Boccaccio
LATB00S Introductory Latin
LATB01S Latin
LATB30S Latin
LATB40Y Supervised Reading
SPAB10S History of the Spanish Language
SPAB10S Medieval Literature: Proví
SPAB30S Medieval Poetry

Philosophy and Religion
CLA20S Greek and Roman Religion
CLA21S Christianity to the Greek Roman World
HUMB2Y Primitive Christian Literature and Myth
HUMB2Y World Views in the Late Middle Ages to the Renaissance
HUMB2Y Jews in Early Christianity and Judaism
HUMB2Y John Gospel and Letters
PHIL40S Plato and his predecessors
PHIL41S Plato and his predecessors
PHIL42S Aristotle and Later Greek Philosophy
PHIL42S Aristotle and Later Greek Philosophy
PHIL44S Philosophers of the Middle Ages

MODERN LANGUAGES AND LITERATURE

Major programmes are possible in a combination of any two of English, French, German, Italian, Russian, Spanish. Fourteen courses are required, seven in each of the two areas. These programmes may render a student eligible to pursue graduate studies, and a combination which includes English or French would allow students to apply to the Faculty of Education for Type A certification.

In each case of a combined major the students must have approval of the appropriate Supervisors of Studies.

Requirements in each subject area as follows:

English
Supervisor of Studies: A. Thomas
Seven full course equivalents, including one of ENGB01Y, B20Y, C21Y, C22Y. At least one course should be at the Clevel.

French
Supervisor of Studies: J. Barcoff
Seven full course equivalents, including FRAC02Y and 896, one full course equivalent in literature dealing with a period prior to 1800 and one with a period after 1800. No more than two full course equivalents at the A level and one from the series of Supervised Reading courses may be counted. At least two courses should be at the Clevel.

German
Supervisor of Studies: H. Oettendorf
Seven full course equivalents as follows: GERB20Y, B30Y, C21Y, B40S, B50F, B60F, B70F, B80Y, C10Y, C21Y.

Italian
Supervisor of Studies: A. Frascinetti
Seven full course equivalents, of which at least two full course equivalents must be in Italian language at a level appropriate to the student's background and experience and at least four full course equivalents must be in Italian literature, including B21Y and B31Y.

Russian
Supervisor of Studies: S. Whidden
Seven full course equivalents as follows: RUS40S, A10Y, B20Y, B31Y, B21Y, B32Y, C21Y.
MUSIC

Discipline Representative: J. Mayo

Music is considered one of the liberal arts. The approach to musical style is historical and humanitarian, and these courses differ in some respects from those designed for composers and performers. Performing skills are not required for this kind of study. It is expected that courses will vary from year to year.

MUS480Y Introduction to Music / J. Mayo
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.

MUS606F Music of the Romantic Period / J. Mayo
A study of the music of the 19th century. A detailed study of Romantic musical styles as represented by selected works of the major 19th-century composers. Included are compositions by Beethoven, Schubert, Mendelssohn, Berlioz, Verdi, Wagner, Brahms, Chopin, Laut and Wolf. The course will include consideration of the relationship between music and the other arts and an introduction to the sociology of musical romanticism. There will be two lecture hours per week. Evaluation will be on the basis of a term paper (13%) and a final examination (33%).

Pre-requisite: MUS480Y or MUS4080Y

Session: Winter Day
NATURAL SCIENCE

Quaternary Studies Programme

Several courses in various disciplines relate directly or indirectly to the Quaternary - that period of time encompassing the last three million years, when the transformative processes underlying modern culture, landscape patterns and biogeography developed and interacted. Students with an interest in this multidisciplinary area should consult the Supervisor of Studies for further details.

NSCA01Y Introduction to Natural Science: Physical Science

A primarily non-mathematical treatment of the basic and applied physical sciences, designed for students whose major interests lie outside of science. Basic questions discussed include: the history of physical science; scientific method, pseudo-sciences; dimensional analysis; principles of mechanics; theory of gravitation; oscillating systems; quantum mechanics; symmetry and physical laws; relativity theory; the statistical character of natural phenomena. Applications include: studies of speed and size; magnetic and electric phenomena; the physics of music and the physics of colour; nuclear and other energy sources and some of the philosophic and social implications of modern science. Considerable use is made of films and demonstrations to supplement the lectures and much of the tutorial time is devoted to discussion. Reading and essay writing are an important part of the course.

An emphasis on the historical development of concepts in the physical sciences, from earliest times to the present. It will be necessary for students to work problems involving simple algebra and arithmetic, but no calculus. The bibliography is Gerald Holton, Introduction to Concepts and Theories in Physical Science (McGraw-Hill, 1973). The method of evaluation is problems, term tests, essays, final examination and extra reading.

Exclusion: Not open to students who have passed PHYA01 or PHYA02

Other Recommended Courses: MATA22, PHILE00

Session: Winter Day

NSCA02Y Introduction to Natural Science: The Biological Sciences / G.R. Williams

This course is designed for students with no formal background in Biology, and in particular for those whose main interests are not in the Natural Sciences. It aims to introduce the student to the central ideas of Biology and to acquaint the student with the ways in which these concepts are interrelated. The functioning of cells and organisms will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies in which these subdivisions of biology have become involved. Reading and essay writing will be an integral part of the course, supplemented by sessions and discussion periods.

Exclusion: Not open to students who are taking or have taken BIOA03

Session: Winter Day

NSCA03Y Ice Ages and Human Ecology / R. Greenwood, J. Ritchie, H.B. Schrader, J. Wrigglesworth

A thematic introduction to the interdisciplinary study of the 'Ice Age' (Quaternary) and of human paleoecology, involving several Quaternary specialists.

A series of lectures which emphasize research problems of current interest, such as climatic change, the formation of glacial ice, ice-sheet movements and their effect on the landscapes, periglacial ecology, faunal extinctions, human origins, the domestication of plants and animals, human migration into the Western Hemisphere, and archeological occupations in Ontario. The teaching method consists of one two-hour lecture per week, and occasional fieldtrips. Evaluation is based on examinations and a short research paper.

Session: Winter Day

COURSES NOT OFFERED in 1979-80

NSCB02Y Quaternary Environments and Man

Prerequisites: One of NTA01Y, BIDM03, (GGR4A07, GGR4A04, GGR4A03, GLG5A01, NSC403Y) is strongly recommended that students have a background in one of the areas listed.}

PHILOSOPHY

Discipline Representative: W.C. Graham

 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 premises 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 1978-79 will be available in 1979-80 while PHIL101Y, PHIL103Y, PHIL201Y, IMPR010, PHIL200Y and PHIL203Y are offered every year. It should be noted that in almost all areas Fall/Spring sequences are offered which when combined provide the equivalent of a full year course at the B-Level. These sequences are usually scheduled in the same time slot. The B-Level courses are 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, HJ05.

Major Programme in Philosophy

Supervisor of Studies: W.C. Graham

Students must complete PHIL401Y, PHIL403Y, PHIL207Y, IMPR010, PHIL200Y, four half courses from PHIL400Y to PHIL405Y, one C-Level half course in Philosophy, and seven other half-courses in Philosophy.

Physics and Philosophy Programme - See Physics

Philosophy and Greek

Students should complete two full-course equivalents made up in the following manner:

Philosophy

(1) PHIL401Y Fundamental Questions of Philosophy
(2) PHIL407Y Plato and His Predecessors I
(3) PHIL408Y Plato and His Predecessors II
(4) PHIL423Y Aristotle and Later Greek Philosophy I
(5) PHIL424Y Aristotle and Later Greek Philosophy II
(6) Four further half-courses

Greek

(1) GRSB10Y Introductory Greek
(2) GRSB20Y Greek and Roman Epic
(3) GRSB32Y Greek and Roman Tragedy
(4) GRSB41Y Greek and Roman Religion
(5) Two full courses (or equivalents) from the following:

CLAR501Y Greek and Roman Epic
CLAR512Y Greek and Roman Tragedy
CLAR521Y Greek and Roman Religion
CLAR523Y Latin Christianity in the Greco-Roman World
CLAR502Y History of Greece from 3000 B.C. to the Death of Alexander
CLAR505Y Greek and Roman History from the Death of Alexander to the Goths
PHI.101P: Fundamental Questions of Philosophy: I. J. Hurley
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 justifiable? 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 explore this question with the help both of philosophers within the Western tradition (e.g. Aristotle, Thomas Aquinas, Descartes, Hume, J. P. Sartre) and of psychologists (e.g. Freud, Skinner, Frankl). Evaluation will be based on back reports, in-class tests, and one paper. The texts will be Maritain Kung, On Being Human, Maritain Adler, The Difference of Man and the Difference It makes, Jerome Shaffer, The Philosophy of Mind.
Session: Winter Day

PHI.102P: Fundamental Questions of Philosophy: I. P. Thompson
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 justifiable? Is materialism true? Are humans free?
A discussion of the existence of God, the basic concepts of duality, the nature of space and time, causality, and determinism.
Session: Winter Day

PHI.103P: Fundamental Questions of Philosophy: A. Gomby, W. Graham
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 justifiable? Is materialism true? Are humans free?
For specific content and tests of this lecture section, please see the instructors: A. Gomby (Fall Term), W. Graham (Spring Term).
Session: Winter Day

PHI.130P: Fundamental Questions of Philosophy: J.H. Sobel
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 justifiable? Is materialism true? Are humans free?
An introduction to philosophy consisting of consideration of topics drawn from the major divisions of the subject: metaphysics, theory of knowledge, philosophy of religion, ethics and logic. The aim of the course is to convey an idea of philosophy, its nature and variety, by doing work and by reading some of the great philosophers.
Reading material for the course is short weekly divided between works of great philosophers of the past, including Anselm, Aquinas, Descartes, Berkeley, Hume and Leibniz, and works of recent and contemporary philosophers. Evaluation to be announced later.
Session: Winter Day

PHI.104P: Morality and Values: J. H. Sobel
A study of philosophical problems and positions in ethics such as the relative values of the justifications of wrongs, the moral obligation, ethical epistemology, utilitarianism, and social objectivism. This course is an introduction to the problems and concepts of ethical theories in found in four philosophers: Plato, Hume, Kant, and Mill. Evaluation to be announced later.
Session: Winter Day

PHI.105P: Philosophy of Art / W. Graham
A study of the nature and purposes of art, considering such questions as the interpretation and evaluation of works of art, the uniqueness of artistic experiences, artistic creativity, and the importance of art.
This course will investigate the relation of art to human life. A variety of art forms including music, painting, sculpture, films, poetry, photography will be investigated and discussed. Students should expect to study the work of various artists. These works may consist of written work or forms of expression, demonstration, display etc., other than the written word. There will be one writing exercise. Student participation is essential. The text will be An Aesthetics: A Critical Anthology by George Dickie and Richard Solomon.
Session: Winter Day
PHEL.A91 Existentiation / J. Hartley
A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jungers, Heidegger and Sartre.
The course has four main objectives: (1) to familiarise students with the work of some of the
leading "existentialist" thinkers, including Kierkegaard, Nietzsche, Heidegger, Sartre and Merleau;
(2) to integrate existential thought by focusing upon the development of some common themes;
(3) to understand such thinking in its proper context, as a critical response to aspects of the
philosophical tradition; (4) to emphasise its particular relevance to the quest for authentic self
identity and a sense of existence. Included among the readings are: Nietzsche, The Gay Science;
Sartre, Existentialism is a Humanism; Heidegger, Being and Time (selections), and others.
Prerequisite: One B-level half course in Philosophy
Session: Winter Day

PHEL.B49 Aristotle I / W. Graham
A study of central themes in the philosophy of Aristotle I.
In the fall term, a discussion of Aristotle's thought on psychology, nature, thought and
reasoning, and being; the development of Aristotle's conception of philosophy in relation to Plato
and the Pre-Socratics. Evaluation will be based on one paper, some discussion or seminar, a term
reading test. Text: The Basic Works of Aristotle, Richard McKeeen, editor; The Pre-Socratics,
Philip Wheelwright, editor.
Session: Winter Day

PHEL.B51 Aristotle II / W. Graham
In the spring term, a discussion of Aristotle's Ethics and Politics; Aristotle as the founder of
a practical philosophy in relation to Plato; the contemporary significance of Aristotle's Ethics. The
work will consist of a term paper, some discussion or seminar, a term reading test. Text: the
Session: Winter Day

PHEL.B48 Philosophers of the Middle Ages I / Information will be available at a later date in
Room H 215A
A study of central themes in the philosophy of Christian, Islamic and Jewish thinkers such as
Augustine, Boethius, Avicenna, Alfarabi, Maimonides, Aquinas, Ockham.
Session: Winter Day

PHEL.B48 Philosophers of the Middle Ages II / Information will be available at a later date in
Room H 215A
A continuation of PHEL.B44.
Session: Winter Day

PHEL.B46 Philosophy of the Early Modern Age I / A. Gombrich
Revolutions in Science and Philosophy involved men in a radical rethinking of the powers of
reason, the basis of experience, and the nature of man and reality.
In the XVIIth century a new conception of knowledge was born; ours the course will trace the
birth, development, and influence of this conception in the works of Galileo, Descartes, Leibniz, Locke
and Newton. The readings will be: Galileo, Opinions and Discoveries; (ed. S. Drake); Descartes,
Philosophical Writings (ed. A. Scholfield); Leibniz, Philosophical Works (ed. Parkinson); Newton, Natural Philosophy (ed. Troughton).
Exclusion: PHEL.B771
Session: Winter Day

PHEL.B77 Philosophy in the Early Modern Age II / J.H. Sobel
Sections of about equal length are planned for Berkeley, Leibniz, and Hume with some, but less,
time devoted to Kantian chapters of Leckie's Essays. Prominent amongst topics taken will be:
theories of perception, God (arguments for and against), theoretical faculties off, the necessary and
the contingent, induction and conclusion, and personal identity. Short contemporary essays, either
on our philosophers or on their problems, will be assigned or recommended. Principal materials
will be course of works of the philosophers named. Grades will be based on examinations and
essays.
Session: Winter Day

JMPA151 Symbolic Logic II
(See listing under section for Joint Courses)

PHEL.B45 Philosophy of Religion / J. Brockway
A study of such topics as the nature and existence of God, immortality, God and morality,
and religious language and symbolism.
The "religion" part of the course is the Judeo-Christian tradition: the topics are philosophical
questions arising in and concerning this tradition. The problem of evil and suffering is the unifying
theme: it raises questions about the relation between God and morality, about the correspondence
of God and the concept of miracles, about life after death, and about the possibility of the very
existence of the God of religious belief. Attention will be paid to these issues in Christian
experience and in Jewish experience, especially after the Holocaust. A full bibliography is available
in room H257, but a central text is Alvin Plantinga, God, Freedom and Evil Harper Torchbooks, 1968.
Session: Winter Day, Summer Evening

PHEL.B70F Philosophy of Science / R.P. Thompson
A study of philosophical questions raised by the natural Sciences. What is scientific explana-
tion? In what sense does a Science tell us what the world is really like? What is causality and does
it play a significant role in Science? How are theories justified?
An examination of the logical structure of explanation, law and theory in the natural sciences,
and an examination of the role of concepts in one's understanding of the world.
Prerequisite: One course or half course in Philosophy or in the Division of Science.
Session: Winter Day

PHEL.B48S Theories of Mind / J. Hartley
An examination of the philosophical presuppositions of psychological theories such as those of
Freud and Jung, Behaviorism and Existential Psychology. Problems such as the relation of mind
and body, conscious and unconscious, the meaning of mentalistic concepts and the analysis of
dreaming will be studied.
The meaning of the word "mind" underwent an evolution as it moved from medieval
philosophy through Descartes, the British Empiricists and beyond. Hence we shall see 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 by Jerome Shuffler, The
Philosophy of Mind.
Prerequisite: One B-level course or half course in Philosophy or Psychology.
Session: Winter Day

PHEL.B77F Contemporary Philosophical Issues: Biomedical Ethics / R.P. Thompson
An examination of the current issues and value beliefs involved in consideration of: the definition
and determination of death, experimentation on human subjects, genetic intervention and
reproductive technologies and their effects on society and disease. Students taking this course must
have previously taken either PHEL.B65F or PHEL.B66F.
Prerequisite: One course or half course in Philosophy.
Session: Winter Day

PHEL.B86S Contemporary Philosophical Issues: Freud / J. Hartley
An analysis of the 'psychology' of Freud - his theory of sexuality, repression, unconscious,
ego, supraego, principle of energy discharge (pleasure principle).
Freud may be of interest to philosophers from a number of directions. He may be approached
from the point of view of the philosophy of man, ethics, philosophy of religion and art, or
hermeneutics. This course will give special attention to the early writings of Freud which include
those works which remain relevant today, as well as those written early in his career which
remain useful today but do not work our way to his first major work on social and religious phenomena - Totem and Taboo. The
texts will be Freud, Introductory Lectures in Psychoanalysis, Freud, New Introductory Lectures in
Psychoanalysis. Evaluation will consist of two in-class tests and one major essay.
Session: Winter Day
Discussions of reductionism, models of explanation, types of laws, and the structure of theory in Biology.
A seminar course dealing with the logical structure of explanation in evolutionary theory, methodology in Biology, and the logical structure of the synthetic theory of evolution.
Prerequisites: PHIL.270 or PHIL.214, permission of instructor
Session: Winter Day

PHIL.270/S
PHIL.270/S
PHIL.270/S
PHIL.270/S
PHIL.270/S
PHIL.270/S
PHIL.270/S

PHIL.190I: Independent Studies 1/Staff
Prerequisites: Two B-level half-courses in Philosophy; permission of instructor
Session: Winter Day

PHILOSOPHY COURSES NOT OFFERED IN 1979-80

PHIL.182/S: Contemporary Ethical Theories
Prerequisite: One B-level half course in Philosophy

PHIL.284/S: Philosophy in Literature
Exclusion: PHIL.286 (PHIL.180)

PHIL.122/S: Marx and Marxism
Prerequisites: One course or half-course in Philosophy, Sociology, Political Science or Economics. PHIL.10 is recommended but not required.

PHIL.140/S: Philosophy of Science
Exclusion: PHIL.200
Prerequisite: One course in Philosophy or in the Division of Social Sciences.

PHIL.115/S: Philosophy of Education

PHIL.117/S: Axiomatics
Exclusion: PHIL.110

PHIL.240/F: Plato and his Predecessors I
Exclusion: PHIL.113 (PHIL.186)

PHIL.241/F: Plato and his Predecessors II
Prerequisite: PHIL.140

PHIL.245/F: Philosophy in the Later Modern Age I

PHIL.246/F: Philosophy in the Later Modern Age II
Exclusion: PHIL.184, PHIL.133

PHIL.440/S: Existence and Reality

PHIL.390/S: Philosophy of Language
Prerequisite: One B-level course or half-course in Philosophy or Linguistics.

PHIL.199/S: Seminar in Philosophy

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 atom, 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 electric and magnetic effects so beautifully synthesized in Maxwell's theory of electrodynamics. 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-ray, 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 the subject.

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 understanding of Mathematics and of the techniques that are needed to the performance of accurate experiments.

Students intending to specialize in Physics are advised to select their courses in accordance with the requirements of either the Major Programme in Physics or that in Mathematics and Physics.

Less intensive programmes are available for those whose major interest do not lie in Physics. Specifically, the joint courses PHYS.212 and PHYS.216 cover many topics in Physics and the problems of their application to a number of areas in science. The laboratory course PHYS.250H offers a wide spectrum of experiments for students of PHYS.211 or PHYS.216. Additional more specialized B-level courses are also open to students who have completed A-level Physics and Calculus courses.

The listed pre and corequisites imply others not explicitly listed: details are available from the Supervisor of Studies and the Registrar's Office.

Students interested in Physics should also refer to:

NSC.190Y: Introduction to Natural Science: Physical Science
IPAC.02Y: Relativity and Cosmology
IPMC.02S: Advanced Classical Mechanics

Major Programme in Physics

Supervisor of Studies: A.E. Jacobs

Students should complete a minimum of fourteen courses in physics and mathematics, as specified below. An optional mathematics programme more suitable for students with interest in mathematics or physics or theoretical physics is specified in parentheses; such students might also consider the Mathematics and Physics major programme. It is essential that students choose the appropriate set of mathematics courses from the beginning, since transfers between the sets are severely restricted. It is recommended that all students take MAT.100F:

(1) In the first year of full-time study (or equivalent):
   PHYS.10Y: Classical Mechanics
   MAT.102Y: Calculus with Linear Algebra
   or
   MAT.104F, MAT.106S and MAT.108Y

(2) In the second year of full-time study (or equivalent):
   PHYS.210Y: Electricity and Magnetism
   PHYS.214F: Waves
   PHYS.200H: Intermediate Physics Laboratory
   PHYS.205F: Thermodynamics
   or
   CHEM.230Y
   PHYS.217Y: Introduction to Quantum Physics
   PHYS.218Y: Special Relativity
   MAT.300F: Techniques of the Calculus of Several Variables I
   or
   MAT.309F, MAT.385S (or equivalent)

(3) In the third year of full-time study (or equivalent):
   PHYS.201Y: Quantum Physics
   PHYS.202Y: Electromagnetic Fields and Waves
   PHYS.205H: Advanced Physics Laboratory
   PHYS.206F: Statistical Physics
   IPMC.02S: Advanced Classical Mechanics
   MAT.313F: Differential Equations I
   MAT.309F: Complex Analysis I
Major Programme in Physics with Philosophy

Supervisor of Students: J.M. Perc (Physics) and R.P. Thompson (Philosophy)

Students should complete the following thirteen and one-half courses. The order in which some of the advanced philosophy courses are taken may be altered, depending on which courses are available in a given year. Students wishing to receive a B.Sc. degree must take an additional half course at B. or C. level in a science subject as defined in the recommendations for the twenty-course B.Sc. degree.

1. In the first year of full-time study (or equivalent):
   - PHYS 101Y Classical Mechanics
   - PHYS 102Y Fundamental Questions of Philosophy
   - MATA 235Y Calculus with Linear Algebra

2. In the second year of full-time study (or equivalent):
   - PHYS 201Y Electricity and Magnetism
   - PHYB 201S Waves
   - PHYB 201F Special Relativity
   - IMPB 205F Symbolic Logic
   - IMPB 215S Symbolic Logic II
   - IMPB 215F Philosophy of Science
   - MATA 245F Techniques of the Calculus of Several Variables I
   - MATA 246S Techniques of the Calculus of Several Variables II

3. In the third year of full-time study (or equivalent):
   - PHYS 301Y Quantum Physics
   - PHYS 302F Statistical Physics
   - JPCM 305S Advanced Chemical Mechanics
   - JPCM 306S Philosophical Science
   - IMPB 305S Symbolic Logic II
   - IMPB 306F Contemporary Philosophical Issues
   - IMPB 356H (St. George) Advanced Topics in Philosophy of Natural Science
   - MATA 355F Differential Equations I
   - MATA 356F Complex Analysis I

   *In years when PHYS 307 deals with advanced philosophy of science

4. In the fourth year of full-time study (or equivalent):
   - PHYS 401Y Quantum Theory
   - PHYS 402Y Belief, Knowledge and Truth
   - PHYS 404F Philosophy in the Early Modern Age I
   - PHYS 406F Philosophy in the Early Modern Age II
   - PHYS 408S Existence and Reality

5. In the fifth year:
   - NSCS 405Y Introduction to Natural Science: Physical Science
   - MATA 405Y Introduction to Linear Algebra

Mathematics and Physics Programme

See Mathematics

Chemical Physics Programme

See Chemistry

PHYS 101Y Classical Mechanics / A.E. Jacobs

Mathematics of single particles and collections of particles from the point of view of Newtonian physics. Equilibrium of rigid bodies, kinematic theory of gases, mechanics of fluids, introduction to thermodynamics. A laboratory emphasizing most of these physical phenomena is part of the course.

Problem solving is a very important part of the course. A set of solutions to assigned problems must be handed in almost every week. Experience with experimental work is gained in the accompanying laboratory. The course structure is two lecture hours and one tutorial hour per week and one laboratory session every second week.

Exclusion: PHYS 100Y

Prerequisites: Grade 12 Physics or NSCM 61, Grade 12 Calculus

Corequisites: MATA 262 or MATA 255

Session: Winter Day

PHYS 201Y Principles of Classical Physics / J.D. King

This course is intended for those who wish to pursue a career in contemporary physics such as PHRY 200Y. However, it is also designed for those who expect to continue with major studies in physics. Topics include: kinematics and dynamics of single particle motion, simple harmonic motion, molecular motions, kinetic theory, laws of thermodynamics, waves, elementary statistics and quantum physics, electricity and magnetism.

The course consists of two hours of lectures (with discussion and demonstrations), one hour of tutorials per week, and three hours of laboratory every second week. The required text is R.L. Armstrong and J.D. King, Mechanics, Waves, and Thermal Physics, Prentice-Hall. The method of evaluation is one problem set per week, mid-term tests, laboratory work, and a final examination.

Exclusion: PHYS 201Y

Corequisites: MATA 262 or MATA 255

Session: Winter Day

PHYS 301Y Electricity and Magnetism / M.J.G. Lee, J.M. Perc

Electrostatics, electric field and potential; electric currents; direct current circuits; special relativity; Lorentz transformation; magnetic field and vector potential; fields of moving charges; transformation of fields; electromagnetic induction; Maxwell's equations and wave propagation; introduction to electric and magnetic fields in matter; alternating current circuits. The course is two hour lectures per week and one problem set per week. The emphasis will be on a thorough understanding of fundamentals, and on logical reasoning in proofs and problem solutions. The method of evaluation is a term test in December, a final examination in April/May; quizzes and problem sets - each to count for approximately one third of the final grade.

Prerequisites: PHYS 201Y (recommended) or PHYS 202Y

Corequisites: MATA 264 or MATA 256

Other Required Courses: MATB 42 or MATB 355; PHYB 301 (a laboratory) would also be helpful.

Session: Winter Day

PHYB 404F Waves / P.J. O'Donnell

Topics discussed include wave equations, superposition of waves, wave interaction, linear waves, forced waves, waves on a string, and wave problems. Applications are made to sound waves, water waves, light waves, surface water waves and waves on a string.

Prerequisites: PHYS 401Y or PHYS 402Y; MATA 262 or MATA 255

Session: Winter Day
PHYB06/73 Principles of Contemporary Physics (M.B. Walker, M.J.G. Lee)
This course surveys the remarkable progress that has been made in understanding the physical world in the twentieth century. It is designed for students whose interests are in the life sciences or in interdisciplinary studies, and as a natural continuation of PHYA/BY. The topics include: special theory of relativity, relativistic dynamics, Maxwell's equations, electromagnetic waves, wave-particle duality, de Broglie waves, the Schrödinger equation, the hydrogen atom, atomic and molecular structure, the solid state, nuclear physics, the fundamentals of particles.

The course structure is two lectures and one tutorial per week. Problem sets will be discussed in detail in a weekly tutorial. The required text is Fundamentals of Waves, Optics, and Modern Physics by H.G. Young, 2nd Edition (McGraw-Hill, 1978). The method of evaluation is a Christmas exam, a final exam, and tutorial quizzes and problem sets.

Exclusions: PHYB17, PHYB18
Prerequisites: PHYA02 or PHYA01, MATA22 or MATA26 or MATA25
Session: Winter Day

PHYB08/89 Intermediate Physics Laboratory (M.J.G. Lee, J.M. Pez)
Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illuminating material covered in lecture courses PHYB03 and PHYB06). Limited enrollment: 25.
A six-hour laboratory period once very two weeks. A single experiment may extend over more than one period. Students are expected to plan their experiments thoroughly beforehand, discussing their approach with one of the instructors or demonstrators. Observations including numerical data must be recorded carefully and thoughtfully. The Intermediate Physics Laboratory Manual, available in the laboratory, contains references to other sources, a number of which are available for consultation in the laboratory. The method of evaluation is based, with equal weight, first on the preparation and performance of the experiment, and secondly on four formal laboratory reports. At the beginning of the course, two hours of lectures will be given on electrical circuit theory, for the benefit of those who wish to do experiments in that area (attendance will be voluntary).

Prerequisites: PHYB06 or PHYA02
Corequisites: PHYB03 or PHYB09
Session: Winter Day

PHYB09/85 Thermodynamics (G.A. Kennedy-Walace, A. Goffin)
General principles of classical thermodynamics including the first and second laws and applications. Lectures are the same as those for the spring term half of CHM1100Y; problems oriented towards applications in physics will be provided.

Exclusion: CHM103
Prerequisites: MATB14 or MATB10, PHYA01 or PHYA02
Corequisites: MATB42
Session: Winter Day

PHYB17/85 Introduction to Quantum Physics (J.E. Jarosh)
Experiments are provided on quantum physics (photocell effect, atomic spectra, matter waves, blackbody radiation). Wave packets and the Schrödinger equation. Energy quantization, tunneling, and the harmonic oscillator. Quantization of angular momentum and spin.

Exclusion: PHYB06
Prerequisites: PHYB04, MATB14 or MATB10
Session: Winter Day

PHYB18/85 Special Relativity (A. Goffin)

Exclusions: JPS308, PHYB09
Prerequisites: PHYA06 or PHYA02
Session: Winter Day

PHYC08/85 Quantum Physics I (A. Goffin)

Exclusions: PHYB17, PHYB18
Prerequisites: PHYB01, MATB14 or MATB16 and MATB24, PHYB17
Session: Winter Day

PHYC09/85 Electromagnetic Fields and Waves (M.B. Walker)
Electromagnetic fields in vacuum and in dielectric materials: multipole expansion, polarization, polarization current density, susceptibility, images on conductors, forces on dipoles etc. Laplace's and Poisson's equations and their solutions in particular cases. Special relativity and the transformation laws obeyed by the fields and potentials. Magnetoelastic fields in vacuum and in materials; induction, induction, magnetic torque and pressure, magnetization, susceptibility, hysteresis, etc. Maxwell's equations. Propagation of electromagnetic waves in infinite media (free space, nonconductors, conductors and low-pressure ionized gases): Focusing vectors. Reflection and refraction of electromagnetic waves; Snell's law. Fermat's principle. Fresnel's index of refraction, total internal reflection. E and H waves, TE and TM waves. Radiation of electromagnetic waves: antennas.


Prerequisites: PHYB01, PHYB03, MATB14 or MATB10
Corequisites: MATC11
Other recommended course: PHYB18
Session: Winter Day

PHYC18/85 Advanced Physics Laboratory (M.J.G. Lee, J.M. Pez)
A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in Physics. Limited enrollment: 20.

This course is designed to involve students in some more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties. The course work will be on a week by week basis. A student and experiment may extend over more than one period. The method of evaluation is based, with equal weight in each of the periods, on the performance of the experiment and recording of observations and data, and secondly on four formal reports.

Prerequisites: PHYB09 and permission of instructor
Corequisites: PHYC01
Session: Winter Day

PHYS308 Statistical Physics (P.J. O'Donnell)
Studies of entropy, thermodynamics and statistical mechanical ensembles, with applications including the kinetic theory of gases, paramagnetism, the specific heat of gases, isotropic separation and phase transitions.

Exclusions: PHYB18
Prerequisites: PHYC17
Session: Winter Day
POL 401Y Introduction to Political Studies / J.S.G. Solomon and T.J. Coutts
An introduction to some of the most vexing 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 structures of Canada and some other Western democracies.
Session: Winter Day, Summer Day

POL 805Y Canadian Government and Politics / R.S. Boite 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 will meet once every two weeks. The scheme of evaluation consists of two essays and a term test, each worth 20% of the final mark, and a final examination, worth 40%. For preliminary reading students are recommended to read T.A. Heffern, Government in Canada.
Exclusion: (POL 801Y), POL 805Y prior to 1978-79
Session: Winter Day

POL 813S Government and Politics in Ontario / J.J. Edsery The course begins with a study of the political constitution and then proceeds to an analysis of the party system. The major institutions - executive, legislature, and the public service - together with their inter-relationships are examined. It will be assumed that 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. The specific method of evaluation will be decided at the first meeting and will include a combination of examination, essays and class discussion.
Exclusion: (POL 817S)
Prerequisite: POL 801Y or POL 815Y (formerly 201Y).
Session: Winter Day

POL 825S Canadian Constitutional Law / R.S. Boite 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 B.N.A. Act. The theory of judicial review will be examined at length. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers. The scheme of evaluation consists of two essays and a final examination, each worth 50% of the final mark. The main text is in the course in Peter H. Russell (ed.), Leading Constitutional Decisions (rev. ed.).
Exclusion: (POL 813F, 817S)
Prerequisite: POL 810Y, POL 801Y prior to 1978-79
Session: Winter Day

POL 855Y Public Policies in Canada / J.P. Micay
A study of the patterns of 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 towards the achievement of basic political values.
Exclusion: (POL 815Y)
Session: Winter Day

POL 866Y Public Administration / I.J. Gallinberi An examination of the role of the bureaucracy in the Canadian and other political systems, focusing on the organisation, 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: (POL 806Y)
Session: Winter Evening.
POL175Y Political Thought from Plato to Locke / J. Andrew
Students will be expected to read Plato’s Republic, Aristotle’s Politics, Machiavelli’s The Prince, Hobbes’ 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. The course evaluation will be based on a final examination (50%) and two term papers (each 25%).
Exclusion: (POL180Y)
Session: Winter Day

POL171Y Political Thought of the Eighteenth and Nineteenth Centuries / J. Andrew
A study of the major political philosophers of the eighteenth and nineteenth centuries.
Students will be expected to study selected writings of Rousseau, Burke, J.S. Mill and Marx. These writers will be dealt with thoroughly in lectures and tutorials. Less intensive attention will be devoted to Montesquieu, Hume, Kant, Hegel, Fichte, Bentham, St. Simon, Tocqueville, Carlyle, Bakunin and Nietzsche.
The teaching method will be two hours of lecture and one tutorial hour per week. The course evaluation will be based on a final examination (50%) and two term papers (each 25%).
Exclusion: (POL175Y)
Session: Winter Day, Winter Evening

POL180Y International Relations / A. Radinoff
A study of the nature of the international system: the factors that motivate foreign policies; and the institutions for the conduct of international relations. The purpose of the course is to help the student develop intellectual tools with which to analyze politics at the international level.
Exclusion: (POL190Y)

POL181Y Canadian Foreign Policy / J. Escharry
An examination of the nature and making of Canadian foreign policy.
The course will explore the rationale for Canada having a foreign policy at all. The relationship between foreign policy and defence and economic issues. The methods whereby foreign policy decisions are made and the role of public opinion, provincial governments and legislators in this field.
The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of evaluation: essays and class discussion.
Exclusion: (POL180Y)
Prerequisites: POL181Y (formerly 407Y) or POL180Y
Session: Winter Day

POL182Y American Foreign Policy / A. Radinoff
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: (POL180Y)
Prerequisites: POL181Y or POL182Y (now POL287)
Session: Winter Day

POL284Y Comparative Politics of Industrial Societies / M.W. Donnelly
A comparative analysis of major themes in the politics of industrial societies, including political accountability and state interventionism.
This course is an examination of the conditions of government and political freedom in industrial societies, including examining the process of industrialization and the formation of the modern state. Thereafter, a number of interrelated issues are examined: interaction among political and bureaucratic elites, methods of political control and indirect representation, the dynamics of the welfare and welfare state, and the future conditions of the post-industrial society.
Organization will consist of a seminar. Oral presentations and a paper will be required in addition to a final exam. Preparatory reading must include J.R. Galtung, The New Industrial State.
Exclusion: (POL281Y)
Prerequisite: One course in Political Science or permission of instructor.
Session: Winter Day

POL285Y Soviet Government and Politics / T.J. Colton and 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: (POL284Y)
Session: Winter Day

POL287Y U.S. Government and Politics / M.W. Donnelly
A general examination of political 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.
Organization will consist of lectures and discussion. Evaluation will be based on a combination of exams and essays.
Exclusion: (POL180Y)
Session: Winter Day

POL381Y Urban Politics / J.J. Colton
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: (POL385Y)
Session: Winter Evening

POL385Y Politics of the Third World / K.B.J. Sandbrook
The emphasis in this course will be upon the effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporations, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya.
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 thus encompasses analyses of both the political economy of each of four Third-World countries and the transnational influences emanating from advanced industrialized countries. A good book which examines the link between reform at the national and international levels is Mahbub-ul Haq’s The Poverty of Nations: Choices for the Third World (New York: Columbia Univ. Press, 1976).
Exclusion: (POL381Y)
Session: Winter Day

POL387Y The Chinese Political System / L.C. Falkenheim
An analysis of Chinese political institutions, behavior and thought, with primary emphasis on the contemporary political system since 1949.
Exclusion: (POL385Y)
Session: Winter Day

POL388Y Politics and Government in South Asia / A. Radinoff
While the emphasis is upon the politics and government of contemporary India, this course also draws comparisons to the situation elsewhere in South Asia.
Exclusion: (POL387Y)
Session: Winter Evening
POLCS48 The Psychology of International Relations / J. Esbrey
This course will explore the contribution that psychological knowledge can make to an understanding of international relations. Problems to be considered include problems of war and peace, the influence of perception on foreign policy decisions, the influence of personality on decision making.
The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.
Exclusion: (POLC11FS)
Prerequisite: POLB40 or POLB90
Session: Winter Day

POLCS50 Comparative Communism / T.J. Cohen and V.C. Falkenheim
An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.
Exclusion: (POLC05Y)
Prerequisite: One B-level course in Political Science
Session: Winter Day

POLCS66 Intergovernmental Relations in the European Economic Community / J. Esbrey
An examination of some of the intergovernmental relations which arise in regional organizations such as the E.E.C. and the machinery which has been developed to cope with these problems. The course begins with an overview of the institutional machinery of the E.E.C. and proceeds to a detailed examination of a number of case studies of intergovernmental decision-making in the Community. The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.
Exclusion: (POLB43FS)
Session: Winter Day

POLCS10 Urbanization and Underdevelopment / K.B.S. Sandbrook
An analysis of how cities in selected African and Latin American countries reflect the underdevelopment of the latter in their histories, functions, occupational structures and processes of social marginalization, and of the efficacy of present and proposed policies and strategies to ameliorate the major problems arising therefrom.
Prerequisites: A. level course in African history and politics.
Session: Winter Day

POLCS20 Twentieth Century Political Thought / S.G. Solomon
The course examines the evolution of democratic theory with particular attention to the impact on that theory of the sociopolitical crises (The failure of democracies and rise of dictatorships in Europe) and the growth of new approaches to social inquiry (quantitative research, behavioral studies).
Session: Winter Day

POLCS95 Topics in Canadian Government / J. Esbrey
An intensive study of selected important topics in the field of Canadian government and politics. This year the topics to be explored will include: The politics and management of Canadian economic policy: secrecy, delegated legislation and its consequences; consequences of structural change in the machinery of central government.
The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.
Exclusion: (POLB71FS)
Prerequisite: POLB40 or POLB90 (now BSOY)
Session: Winter Evening
POLC8RF Supervised Reading / Staff
Advanced reading programme in special topics.
This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: POLC8DF
Prerequisites: One B-Level course in Political Science; permission of instructor.
Session: Winter Day

POLC8PS Supervised Reading / Staff
Advanced reading programme in special topics.
This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: POLC8PS
Prerequisite: One B-Level course in Political Science; permission of instructor.
Session: Winter Day

COURSES NOT OFFERED in 1979-80
POLA4Y Introduction to Political Theory
POLB4Y Intergovernmental Relations
Exclusion: POLB39F
Prerequisite: POLA40Y
POLB4CY Political Behaviour
Exclusion: POLB30Y
POLB4DY Psychology and Politics
Exclusion: POLB32Y
POLB89Y Political Society in Contemporary Japan
Exclusion: POLB30Y
POLB82Y Politics and Society in Independent Africa
Exclusion: POLB32Y
Prerequisites: None, but a course in introductory political science would be helpful.

POLC84Y Canadian Problems in Comparative Perspectives
Exclusion: POL615Y
Prerequisite: One of POLA491, A05, B26, B34

PSYCHOLOGY

Psychology is that branch of science which seeks to understand behaviour and experience. Why humans and infrahuman act 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 enquiry can also be applied to an understanding of behavior.
The areas of interest which Psychology encompasses include: how organisms perceive their environment; how they learn and adapt; how they change from 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 behavior; how their behavior relates to physiological functions; and how individuals differ from each other. The course offerings in Psychology consider how psychologists pursue enquires into these areas and what knowledge they have gained.

Students interested in Psychology and planning to enter teaching or research professions should consider following the Major Programme in Psychology. Students who are interested in proceeding to the graduate level in Psychology should aim for a well-rounded undergraduate programme rather than narrow specialization in the area which is of immediate interest. The existence which is provided by the Thesis (C28) is of particular value to prospective graduate students.

It will often be appropriate to include as well courses in other disciplines, such as Anthropology.

Biology, Computer Science, Linguistics, Mathematics, Natural Science, Philosophy, and Sociology. The following courses merit special attention:

ANTA4Y Introduction to Anthropology
ANTB75Y Complex Societies
ANTB8Y Cultural Evolution
ANTB82Y Primate Behaviour
BIOC89Y Introductory Biology
BIOC89Y Genetics
BIOC89Y Animal Populations and Evolution
BIOC89Y Fundamentals of Ecology
BIOC89Y General and Comparative Physiology
CSCA9Y Computer Programming
CSM89S Programming Applications
JLP015Y Psycholinguistics
LMA010Y General Linguistics
LMA010Y Introduction to Language
MAT2AZY Techniques of Calculus
NCSC89Y Introduction to Natural Science: Physical Science
NCSC89Y Introduction to Natural Science: The Biological Sciences
PHL80YY Fundamental Questions of Philosophy
PHL80S5 Belief, Knowledge and Truth
PHL80S5 Philosophy of Science
PHL80S5 Theories of Mind
SOCI2ZY Introduction to Sociology
SOCI2ZY Structure of Interpersonal Relations
SOCI2ZY Small Groups
SOCI2ZY Sociology of Deviant Behaviour

Members of staff are available for consultation in the planning of your programme in Psychology.

Major Programme in Psychology

Supervisor of Studies: J.N. Bassol

This programme is taken as part of the twenty-course degree programme.

Nine full-course equivalents in Psychology including:
(1) PSY A01 or A02
(2) PSY B07
(3) At least one full-course equivalent from among PSY B09, B11, B40, B41, B52, B62.
(4) At least one additional full-course equivalent from the B-level 40, 50, and/or 60-series.
(5) At least one additional full-course equivalent from the B-level 40, 50, and/or 60-series.
(6) At least one additional full-course equivalent from the B-level 50-series.
(7) At least two full-course equivalents at the C-level. More than one full course equivalent selected from C80, C95, and/or C88 may be offered in satisfaction of this requirement. All 400-level courses on the St. George campus are considered to be at the C-level. Only some 500-level courses are treated as C-level courses; the student is advised to check the table of course equivalents in Psychology.

PSY A01Y Introduction to Psychology / J.W. Milgrom, first term, R. Richardson, second term

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 behavior is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behavior: particularly the functioning of the nervous system; learning and the importance of past experience in behavior; perceiving, thinking, and remembering; intelligence; language; motivation and emotion; social behavior; personality, and abnormalities of behavior and experience. Two three-hour lectures per week. Lectures include discussion, demonstrations, films and laboratory exercises (TBA). One comprehensive final and one book of relevant readings. The titles for Summer, 1979 have not yet been selected. There will be two term tests during the course (50%). Final examination 40%; laboratory reports (15%).

Exclusion: PSY A02

Session: Summer Evening
PSY341
Introduction to Psychology | M.C. Smith; The Faculty
The course introduces students to the field of psychology, covering topics such as the nature of the mind, behavior, and mental processes. Emphasis is placed on understanding how our thoughts, feelings, and behaviors are influenced by various factors and how these factors interact to shape our experiences. The course will utilize lectures, discussions, and readings to explore key concepts and theories in psychology.

PSY342
Data Analysis in Psychology | R. Fuchs
This course focuses on the statistical methods used to analyze data in psychology. Students will learn how to conduct and interpret statistical analyses, including descriptive statistics, inferential statistics, and regression analysis. The course is designed for students with some background in mathematics and computer skills.

PSY343
Behavioral Science | J. Russell
This course introduces students to the science of behavior, focusing on the principles and methods used to study and understand behavior. The course will cover topics such as learning, motivation, and cognitive processes, and will utilize lectures, discussions, and readings to explore key concepts and theories in behavioral science.

PSY344
Experimental Design in Psychology | J. Pfeiffer
The course focuses on the design and analysis of experiments in psychology. Students will learn how to design, execute, and interpret experiments, including the use of statistical methods to analyze data. The course is designed for students with some background in mathematics and computer skills.

PSY345
General Experimental Psychology | L. Biederman
This course provides an overview of the techniques used in experimental psychology, including the use of control and experimental conditions, statistical analysis, and the interpretation of results. The course is designed for students with some background in mathematics and computer skills.

PSY346
Social Psychology | J. Boswell
Social Psychology focuses on the study of how humans interact with one another and how their behavior is influenced by social factors. The course will cover topics such as social influence, compliance, obedience, social roles, and social identity, and will utilize lectures, discussions, and readings to explore key concepts and theories in social psychology.

PSY347
Developmental Psychology | J. G. Capaldi
Developmental Psychology focuses on the study of how humans develop and change over time, including the physical, cognitive, and social aspects of development. The course will cover topics such as infant development, cognitive development, and social development, and will utilize lectures, discussions, and readings to explore key concepts and theories in developmental psychology.

PSY348
Psychology in Everyday Life | J. Pfeiffer
This course explores the application of psychological principles to everyday life situations. Students will learn how to apply psychological theories and research to real-world problems, including decision-making, interpersonal relationships, and stress management.

PSY349
Introduction to Social Psychology | J. Boswell
Social Psychology focuses on the study of how human behavior is influenced by social factors. The course will cover topics such as social influence, compliance, obedience, social roles, and social identity, and will utilize lectures, discussions, and readings to explore key concepts and theories in social psychology.

PSY350
Psychology in Culture | J. Pfeiffer
This course explores the role of cultural factors in shaping human behavior and thought. Students will learn how to apply psychological theories and research to cross-cultural contexts, including the influence of cultural values, social norms, and social contexts on behavior.
PSYB35 Personality J. F. Kuhl
How personality study the individual and his behavior. Examples of both the traditional broad theories of behavior (e.g. Freud's psychodynamic theory) and the more contemporary research-oriented miniature theories will be discussed. The specific research areas which are covered vary somewhat from year to year. Achievement motivation, manifest anxiety, attraction, intelligence, compute models of personality, curiosity and exploratory behavior, personality assessment and non-verbal behavior are some of the topics which may be included in any given year.

The objectives of the course are to obtain an understanding of the various ways in which the human organism has been conceived by scientific psychologists, and the kinds of research questions and methods which each conception has generated. Specific topics vary from year to year. Three hours lecture weekly. Readings consist mainly of original research reports from scholarly journals. Evaluation will be announced later.

Prerequisites: PSY A01 or (PSY A02)
Session: Winter Day

PSYB335 Abnormal Psychology J. F. Porter
A critical examination of psychodynamic, S-R, cognitive-interpersonal, biological and phenomenological views concerning the cause and treatment of abnormal behavior. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

Definitions and identification of abnormality; historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints on hypnosis; model and theory development, including genetic physiological, stress, medical-physiological, psychosomatic, social-learning, and sociological; classification systems, including problems in their reliability and validity; description of a variety of neuroses, psychoses, and other behavioral disorders of adults and children, including cognitive, emotional, sensory-perceptual psychomotor, and motor aspects; approaches to investigation and treatment; findings in psychology, psychopharmacology, genetics, and epidemiological research; management, control, and modification of abnormal behavior; additive and nicotine manipulation; including pharmacological, psychological, behavioral learning, and social engineering approaches.

Prerequisites: PSY A01 or (PSY A02)
Session: Winter Evening both terms.

PSYB335 The Measurement of Psychological Attributes J. B. Forrie
A fundamental concern within Psychology is the means by which the aptitudes and abilities of individuals, their interests and attitudes, their enduring 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 values are discussed and illustrated by reference to a variety of psychiatric instruments. Some attention is also devoted to certain substantive issues associated with the measurement of psychological attributes, e.g., 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 a significant role in the development of practical skills in test administration (for a detailed survey of such techniques see Adolescent's Psychological Testing (4th ed.) or Crebin's Essentials of Psychological Testing (3rd ed.). Three hours of lectures per week.

Evaluation will be announced later.

Prerequisites: PSY B07 or MAT B15; one additional half course in Psychology at the B-level
Session: Winter Day

PSYB404 Learning J. B. Birckman
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to the problem of techniques in the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.

Provides theoretical and experimental experience relevant to basic concepts and current problems in learning and motivation. Evaluation will be based on the same methods as PSYB90S.

Prerequisites: PSY A01 or (PSY A02); PSY B04; PSY B07 or MAT B15
Session: Winter Day

PSYB411F Operant Conditioning J. B. Birckman
Review of operant conditioning research with laboratory exercises in operant schedules of reinforcement and stimulus control of behavior. Emphasis will be placed on the control of steady-state performance and provides opportunity for the observation and control of operant behavior in laboratory animals in the laboratory. Topics include: complex schedules of reinforcement, stimulus control, models of operant behavior, discussion of applications of operant techniques in behavior modification. Evaluation will be announced later in the same method as in PSYB90S.

Prerequisites: PSY A01 or (PSY A92); PSY B09; PSY B07 or MAT B15 and PSY B04 are recommended.
Session: Winter Day

PSYB415F Behavior Modification: Origins and Applications J. F. Porter
A survey of attempts to understand and regulate human behavior in non-laboratory settings. An introduction to the field of behavior modification. A critical analysis of current applications and systems of behavior modification and control.

Philosophical underpinnings; basic concepts and models of behavioral change; research strategies; operant procedures; reinforcement, schedules, extinction, shaping, self-reinforcement, fading, chaining, instructions, the token economy, behavioral contracting, foodfeedbacks, punishment and its side effects; cognition and behavior therapy; attribution, placebo effects, cognitive therapy, minimal aversive therapy, thought stopping, problem-solving, modeling; establishment of new behaviors, fear extinction, anxiety training; treatment of obesity; treatment of depression; systemic desensitization; treatment of anxiety, obsessive compulsive disorders; treatment of alcohol and drug abuse. Evaluation will be based on two term tests (25% each) and a final examination worth 50%.

Prerequisites: PSY A01
Session: Summer Day, Winter Day

PSYB50F Sensation and Perception J. F. Forrie
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, color and tone; spatial and temporal resolution; contrast; perception of space and movement; perception of pattern and form. The teaching method will be lectures, for which preparatory reading will be important, and classroom demonstrations of many phenomena under discussion. A final examination and term assignment including tests and some short paper(s) or report(s).

Prerequisites: PSY A01 or (PSY A92)
Session: Winter Evening

PSYB51F Perceiving and Knowing J. M. Kennedy
In obtaining information about the world we rely on first-hand contact with real things, and also on second-hand contact, with representations — we have to distinguish between reality and representational objects and images, the pictures based on the same method as in PSYB90S. 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 displays for the perceptually handicapped, projection, outline representation, machine drawing of pictures, trance level, ambiguous pictures, impossible objects, inclusion in pictures, perception by special groups in New Guinea, Africa, India, Croatia; illusion effects. The teaching method will consist of lectures and exercises. Evaluation will be on the basis of three exercise reports and two end-of-semester examination.

Prerequisites: A B-level course in psychology for PSY A91 or PSY A92 and permission of instructor.
Session: PSYB150, PSYB250, FARK70, PHIL 403 are recommended.
Session: Winter Day
PSYB25 Human Information Processing / M.C. Smith
Recently Psychologists who study human perception and behavior have begun to lay great emphasis on the way in which the human being actively and constructively processes information rather than merely responding passively to stimulation. The course introduces these ideas in their application to perception, memory, cognizes, with special emphasis on quantitative studies. Selected laboratory exercises.

This course is designed to introduce students to one approach to understanding human behavior - an approach whereby the behavior is analyzed into a series of discrete stages or processes, each of which could be influenced by a variety of factors. The way in which attention and method of processing act at each stage is considered. This course meets three hours per week. Every other week there is only one hour of lecture and a two hour lab. This requirement is a total of six hours per week.

There are two term tests, each of which comprises 25% of the total grade. The remaining 50% of the grade is based upon the written lab reports.

Prerequisites: PSYB10, PSYB07 or MATB32, PSYB09
Session: Winter Day

PSYB15 Human Learning and Memory / I. MacLeod
Discussion of the theoretical and experimental literature on human learning and memory. A general cognitive perspective is taken, where learning and memory are viewed 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. Concurrent readings from the text and original sources will supplement and extend the lecture material. Students should be prepared to do a considerable amount of reading and thinking about the issues. In-class seminars can be arranged to pursue issues of less general interest. Evaluation will be on the basis of three components to the course grade: a multiple-choice midterm exam worth 50%, a non-cumulative end-term exam also worth 50%, and a term paper worth 40%

Prerequisites: PSYA81 or (PSYA02, PSYB09 or permission of instructor)
Session: Summer Day

PSYB60 Brain Mechanisms and Behaviour / I. W. Milgram
Students with prior credit for PSYB60 may take PSYB65 for credit. This course and PSYB61 deal with the relationship between behavior and structure and function of the nervous system. Topics covered in PSYB60 include: neuroanatomy, 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. Neuroanatomy, structure and function of neurons, neurotransmitters, and neural mechanisms of sensation and movement.

The teaching method is three hours lecture and one hour lab or tutorial per week.

Prerequisites: PSYB01 or (PSYA02). Prerequisite is recommended for students with no biology background.
Session: Winter Day

PSYB45 Brain Mechanisms and Behaviour: II Physiology of Motivation and Learning / I. Petz
This is a continuation of PSYB60. Topics covered under the category of Motivation include: positive and negative reinforcement, hunger, and sexual behavior, and the reinforcing effect of drugs. Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, neurochemistry 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 neuroanatomical and neurophysiological perspective. Neurophysiological basis of learning and memory will be dealt with and integrated with motivational models to provide a basis for understanding a brain function in behavior. Three hours lecture per week. Two exams: midterm and comprehensive final, 50% each.

Prerequisite: PSYB60
Session: Winter Day

PSYB2Y Research in Psychological Psychology / N.W. Milgram
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 major degree in either psychology or biology and who are particularly interested in the neuroscience.

This course begins with a dissection of a sheep brain. Subsequently, the procedures covered include: (1) histology (preparing, cutting and staining neural tissue); (2) lesioning specific regions of the central nervous system; (3) chemical stimulation of the brain; (4) electrical stimulation of the brain; (5) recording relay circuits; and (6) electromyographic recording techniques. The teaching method is two hours of lectures a week, three hours of scheduled laboratory work and, in addition, students might spend a few additional hours of their free time working in the student laboratory. The course involves a series of five laboratory projects, three mid-term examinations and one final examination.

Prerequisites: PSYB01 or (PSYA02), PSYB07 or MATB32, PSYB09 or a Biology course; permission of instructor
Corequisites: PSYB64, PSYB65 and PSYB68 are recommended
Session: Winter Day

PSYB6F Biological Foundation of Behavior / T. Petti
Students with prior credit for PSYB60 may not take PSYB65 for credit. Examines the structural and physiological basis of behavior. It is geared towards non-biologically oriented students. Structure 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, stroke, senility, mental deficiency and speech disorders); drugs of use and abuse (stimulants, depressants, and hallucinogens); and the biological basis for violence, schizophrenia, depression, psychosis and anxiety. The teaching method is three hours lecture weekly. There are two exams; mid-term and comprehensive final, worth 50% each.

Exclusions: PSYB06
Prerequisite: PSYA61 or permission of instructor
Session: Summer Evening, Winter Day

PSYCI1S Current Topics in Social Psychology / J. Rossell
An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25

The course will review the development of important theoretical and empirical approaches to the study of social perception. These will include the "new look" approach, impression formation, attribution theory, and the perception of emotions and social interaction. The teaching method is lectures and discussions. Evaluation consists of two one-hour examinations; one term paper.

Prerequisites: PSYB12 or (PSYB10 and permission of Instructor)
Session: Winter Day

PSYCI2S Current Topics in Developmental Psychology
An intensive examination of selected issues and research problems in developmental psychology. Limited enrolment: 25

The specific content will vary from year to year with the interests of both instructor and students. For 1972-8 T.B.A. The teaching method consists of lectures, discussions, and oral presentations by students. The method of evaluation is to be announced.

Prerequisite: PSYCI20
Session: Winter Day

PSYCI2S Socialization Process / Karen Sato
Courses the processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g., development of specific social behaviors) and the context in which it occurs (e.g., family, peer group, etc.). Material will be drawn from both Social and Developmental Psychology. Limited enrolment: 25

The teaching method consists of lectures and discussion. Evaluation consists of essay examination, student presentation.

Prerequisites: PSYB10, PSYB20
Session: Winter Day

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PSYC355 Current Topics in Human Information Processing / J.M. Kennedy
An intensive examination of selected issues and research problems in human information processing.
The blind and the deaf can alleviate their handicaps in many ways. For example, they can use their
remaining senses in new ways, use simple devices to amplify perceptible signals, use signals
transformed electrically and played onto the skin, employ Braille and speech vocoders and tactile
pictures. What they are doing is taking advantage of perceptual tools and perceptible displays. This
course will examine psychophysiological research on ways of assisting the handicapped, and search
for general principles governing probiotics and perception. The teaching method is a seminar. Evaluation
will be by short essays (35%), a long essay (40%), and 5% for class participation.
Prerequisites: A PSYB08; series other than PSYB08; permission of instructor.
Session: Winter Day

PSYC356 Current Topics in Human Information Processing: Music Cognition / J. Cohen
Like visual and linguistic patterns, music is a complex stimulus to which many people respond
with considerable sophistication. This course provides the opportunity of exploring the implications
of certain musical phenomena for the understanding of information processing.
Basic psychosoundscapes, musical terminology, elements of music as stimuli in research e.g.,
pure and complex tones, intervals, chords, scales, sequences, rhythms; methodologies e.g., absolute
judgment, discrimination, protocol analysis; multidimensional scaling; topics such as intensity,
musical motifs, improvisation: models of motor perception and cognition. Teaching Method is
lecture, demonstration, experiment, discussion, and oral presentation. Evaluation consists of short
reports e.g., analysis of a listening experience, critique of an article, discussion of an experiment
(25%); midterm test (25%); final exam (25%); individual project (25%).
Prerequisites: A PSYB08; series other than PSYB08; permission of instructor. (Formal
training in music is not necessary.)
Session: Summer Evening

PSYC357 Current Topics in Human Information Processing: J. Cohen
An active information-processing approach to the study of language will be outlined. The focus of
the course will be on comprehension processes involved in understanding written and spoken
discourse. Specific issues will include the representation of meaning in memory and the special
problems of bilingualism.
There will be a two-hour lecture and a one-hour lecture-discussion each week. The lectures will
provide a foundation for the study of psycholinguistics by examining the empirical and theoretical
literature. In the lecture-discussion, students will take an active role in presenting and critically
evaluating selected topics. Students will also be expected to do a considerable amount of reading
outside the text. There will be three components to the final course grade: (1) Class presentation of
a selected topic (20%); (2) Final short-answer and essay exams (40%); (3) Term-paper (40%).
Prerequisites: A PSYB08; series other than PSYB08; permission of instructor.
Session: Winter Day

PSYC360 Recent Topics in Comparative and Physiological Psychology / I. Priti
An intensive examination of selected issues and research problems in comparative and
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 3-4 hours per week in a practicum situation, working with either
mentally retarded, autistic, or hyperactive children, with aged or senile adults, or with
experimentation on laboratory animals. There will be two biweekly lectures and ten biweekly
practicum sessions throughout the term. There will be a mid-term and final exam on the lectures and
reading material; worth 45% each of final mark. Ten percent of the mark will be from evaluation of the student's performance in class and
particularly in the practicum setting.
Prerequisites: PSYB08; permission of instructor
Session: Winter Day

PSYC408 Philosophy and Psychology / J. Kallin
An analysis of selected philosophical issues which concern the discipline of Psychology.
Discussion will be on such topics as: Behaviorism versus Phenomenology; the mind-body problem;
free will vs. determinism; possible differences between Psychology and traditional scientific
disciplines. Limited enrollment 25
This course is intended to develop sophistication in dealing with developmental-philosophical
issues which arise in the practice of psychology. The specific issues discussed vary from year to
year. Teaching method consists of two hours of seminar weekly. Students will be expected:
Prerequisites: Two B level courses in Psychology and one B level half-course in Philosophy.
Session: Winter Day

PSYC409 History of Psychology / J. Capkovic
Psicological change in the history of psychology: ancient Greek psychology; the modern era,
Descartes, Leibniz; the English Empiricists; Nineteenth Century: development of the
emergence of descriptive and positive methodologies; Twentieth Century: approaches; systems theory:
functionalism, structuralism behaviorism, phenomenology; limited enrollment 35
The course examines the diverse contributions of the Greek philosophers which established the
foundation of Western thought. The course then turns to the conceptual, methodological
and factual developments in both continental and English science and philosophy from the 14th to
the 19th Centuries. The appearances of psychology in its modern form in the second half of the
Nineteenth Century is discussed and a critical analysis is provided of the various modern schools
including system theory, functionalism, structuralism, behaviorism and phenomenology.
Evaluation consists of a mid-term exam, final essay exam, fifteen-page term paper.
Exclusion: PSYC225
Prerequisites: PSYA01 or PSY072; two B level half courses in Psychology.
Session: Winter Day

PSYC453/553 Supervised Study in Psychology / Supervision by a faculty member
These courses provide an opportunity to investigate an area in depth after completing basic
coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses
in a field where these are available. The student must demonstrate that his/her background is
adequate for the project proposed and should present a clear rationale to prospective supervisors.
Frequent consultation with the supervisor is necessary and extensive literature research and/or data
collection will be required. Such a project will normally culminate in a written submission but other
bases of evaluation may also be determined by the supervisor. There is no final examination.
Prerequisites: Three full-course equivalents in Psychology; permission of instructor.
Session: Winter Day, Winter Evening

PSYC466 Thesis in Psychology / Coordinator: M.C. Smith
This course is intended to offer to qualified students the opportunity to engage in a year-long
research project under the close supervision of an interested member of the faculty of Psychology. The
project will culminate in a written report in the form of a thesis and a defense of that report.
During this course of the year, or appropriate terms, 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 PSYB01; 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: PSYB08 recommended
Session: Winter Day
COURSES NOT OFFERED in 1976-80

PSYB6 Man and Machines
Prerequisite: PSY A01 or (PSY A02); quantitative skills such as are required in PSYB07, or PSYB09 are an advantage.

PSYB30 Comparative Psychology
Prerequisite: PSY A01 or PSY A02.

PSYC30 Current Topics in Personality and Motivation
Prerequisite: PSY B30

PSYC34 Phenomenological Psychology
Prerequisite: Three B-level half-courses in Psychology

PSYC40 Current Topics in Animal Learning
Prerequisite: PSY B40

PSYC32 Structures in Psychology
Prerequisite: PSY B01 or MATB52 or PSYB09; PSYB20 or PSYB31; permission of instructor.

PSYC36 Computers in Psychology
Prerequisite: PSYB32 or PSYB37; and/or permission of instructor; limited enrolment 20.

RELATED STUDIES PROGRAMMES

CANADIAN STUDIES

Supervisor of Studies: J.M. Marples

The College offers a large number of courses concerned with Canadian institutions, society, and culture, the prehistory and history of Canada, and its geography and physical environment. The Programme in Canadian Studies encourages students to choose basic courses from several disciplines, in more than one division, and then to do further work in one or two related areas.

Students should select seven full courses (or equivalents) as follows:
1. HISB09 Introduction to Canadian History
2. One of the following:
   - ANTA 101 North American Background of Canadian Native Peoples (Prerequisite ANTA 01, or permission of instructor)
   - POLS 107 Canadian Government and Politics
   - SOCS 101 Canadian Society (Prerequisite, one course in Sociology)
3. At least one half-course in French Canadian literature or a course on the French language in Canada (Prerequisite FRENCH 102)
4. Three further courses from a single group, as listed below, but from one or two disciplines only within that group.
5. One additional course from a second group (though it may be taken from the same group if permission is obtained from the Supervisor of Studies).

(Note: Many of the following courses listed for this programme require a prerequisite within the discipline. Students should note from the Calendar whether a prerequisite or co-requisite is required.)

Group I

ENG 907Y Introduction to Canadian Literature in English
B2Y Canadian Poetry in English
B2Y Canadian Fiction in English
FA 902Y The Arts in Canada; 1850 - present
B6Y The Canadian Landscape
B62Y Recent Canadian Art
FREN 104 French Canadian Novel to 1945
B17Y French Canadian Novel since 1945
B18Y Theatre of French Canada
C79Y French Canadian Poetry

Group II

AN 104S Cultures of Modern Canada
B2Y North American Background to Canadian Native Peoples
B28Y Prehistoric Archaeology of Canada
HISB 90Y Introduction to Canadian History
B4Y Ontario History
B4Y Atlantic Canada
B4Y The Canadian Left 1967 - present
C44Y The Prairie Provinces 1880-1990
POL 101Y Canadian Government and Politics (POL B101Y)
B101S Ontario Government (POL B171S)
B105S Canadian Constitutional Law (POL B125S)
B107Y Public Policies in Canada (POL B107Y)
B109Y Intergovernmental Relations in Canada (POL B109Y)
B106Y Topics in Canadian Government (non-
B106S Canadian Foreign Policy (POL B106S)
C90Y Public Administration (POL B90Y)
SOC 90Y Canadian Society
B30Y Ethnic and Race Relations
B32Y Demography of Canadian Society
C14S Mass Communications and Canadian Society
C22S Changing Family Life in Canada
C27F Social Class in Canadian Society

Group III

S20A0Y Introduction to Economics
B30Y Microeconomic Theory and Policy
B31Y Economic Policy in the Public Sector: Taxation
B32Y Economics of the Public Sector: Expenditure
B31P Poverty and Income Distribution
B4S Urban Economics
B4Y North American Economic History
COM 90Y Income Tax
GGCR 90Y Urban Geography
B13Y Cultural Geography
B19Y Local Area Studies
B17Y Thematic in Rural Geography
C06S Urbanization in Southern Ontario
B12Y Geography in Canada
NSC 90Y Ice Ages and Human Ecology
THE HISTORY OF IDEAS
Supervisor of Studies: William Graham

What has man made of man? The history of ideas is a special kind of Humanities programme for those who want to study the impact of major ideas on the development of Western civilization. The programme offers a solid grounding in the intellectual history of mankind. The student is also helped to concentrate on areas of special interest to himself. Those who elect to take a twenty-course degree will take an individual study year with the supervision of several faculty members.

Taken in part as a fifteen-course degree, the course of studies must include:

1. HUMA01Y
2. PHIL01Y
3. PARA01Y or PARA02Y
4. One full course equivalent emphasizing major scientific ideas: i.e., one of NSCM01Y, NSCM02Y, or ASTA01Y, or the equivalent
5. At least one full course equivalent in History (including Greek and Roman History). Recommended courses are HIST01Y, HIST02Y, DHR04Y, DHR05Y, DHR06Y
6. At least two full course equivalents in a language foreign to the student
7. At least two full course equivalents in Philosophy (4 Half Courses) from among PHIL01Y, PHIL02Y, PHIL03Y, PHIL04Y, or the equivalent
8. HUMC01H
9. Electives should for the most part, develop work done in other courses

Taken as part of a twenty-course degree, the course of studies must also include:

An Independent Study Year, i.e., HUMB35-H99Y, or its equivalent within one or more disciplines.

MYTH AND RELIGION
Supervisor of Studies: M.E. Irwin

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. Students should select at least seven full courses (or equivalent) as follows:

1. HUMA01Y Prolegomena
2. ANTR02Y Comparative Myology
3. Two of the following half-courses:
   - ANTR05Y Anthropological Study of Religion
   - PHIL06Y Philosophy of Religion
   - SOCIO06Y Sociology of Religion
4. Five further courses from the remaining half-course above and the following courses:
   - ANTR02S Systems of Thought
   - CLAR01Y Greek and Roman Tragedy
   - CLAR02Y Greek and Roman Religion
   - CLAR03Y Christianity in the Greco-Roman World
   - FARN01Y Medieval Art IX, Ta XIV Century
   - HIST06Y Europe in the Middle Ages
   - HIST04Y Canadian Religious Traditions
   - HIST02Y Europe in the Reformations Era 1500-1650
   - HIST01Y The Beginnings of Western Christianity in Charlemagne
   - HIST01Y The European Mentality in the Early Modern Period
   - HIST04Y Selected Topics in Canadian Religious History
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. (See also under Modern Languages and Literatures and Russian at Related Studies in the Programmes section of the College Calendar.) All Russian literature courses, with the exceptions of RUSC1Y, CSSY, CMHY, CSSY, and CSY, are taught in translation and are open to non-specialists as well.

Major Programme in Russian and Related Studies

Supervisor of Studies: S. Whalen

This area studies 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 split into two different groups of students: first, those whose main interest is in 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.

Requirements:

Students intending to major in the area must complete a total of ten courses: two consecutive courses in Russian language, four core courses, and four optional courses. Programmes must be approved by a Board of Study in the term in which the fifth course is completed. The Board of Study is to consist of at least one faculty representative from each of the disciplines teaching within the programme:

Russian - C.V. Posner

History - E.W. Dowler

Political Science - J.J. Cullen, S.G. Solomon

Economics - J. Cohen

Philosophy - W.G. Glashan

Russian Studies - K. Thell

Courses:

Languages: Two consecutive courses in Russian language are offered: (RUSABY, RUSB0Y).

Core Courses:

Russian

One full course equivalent from:

RUSB1Y The Nineteenth Century Russian Novel

RUSB1Y The Twentieth Century Russian Novel

RUSB2Y Soviet Russian Underground Literature from the 1920's to the Present

RUSB3Y Twentieth Century Russian Poetry

History

HIS20Y Russia from the Thirteenth Century to the Present

HISC7Y The Russian Intelligentsia

Political Science

POL20Y Politics and Society in the U.S.S.R.

Economics

ECO300YS Comparative Economic Systems

Optional Courses:

Russian

RUSABY Introduction to Russian Culture and Literature

RUSB1Y The Fiction of Leo Tolstoy

RUSB2Y The Russian Symbolist Novel

RUSB3Y Post-1945 Soviet Russian Literature

Supervised Reading

HIS31Y Europe under the Enlightened Despots

History

POLC6Y Comparative Communism

Economics

ECO300YS Economics of Karl Marx

Philosophy

PHIL217YS Marx and Marxism

PHIL219YS Anarchism

Humanities

HUMB302F Disaster and the Literary Imagination

HUMB303Y The Russian Revolution of 1917

HUMB341Y Russian and English Nineteenth Century Fiction

HUMB425S Dostoevsky and the West

Overview Programme:

Students in the Russian and Related Studies Programme at Scarbourough College, 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 in Nova Scotia. 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; late afternoons and evenings are free for cultural and other activities. The cost, which covers air transportation Montreal-Moscow return, tuition, texts, 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 Summer Language Institute at the College, or at a full supervised reading course.

For information consult with Professor S. Whalen, Supervisor of Studies at the College.

RESABY Introductory Russian / N. Kneecher

Fundamentals of 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, basic comprehension and conversation. Starting with the Cyrillic alphabet, students will study declensions, conjugations, the aspectual system and word order. Equal emphasis is given to written and oral drills. In addition to structural oral work in laboratory and class, face conversation based on material read is encouraged. There are four class hours in addition to which the student is expected to spend one hour in the Language Laboratory.

Textbook used is Galina Silinova and others, Introductory Russian Grammar, Xerox College Publishing. Evaluation is on the basis of tests, class performance and homework. No final examination.

Session: Winter Day
RUSAB Introductory Russian / Information will be available at a later date in Room H1324

This intensive course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday through Friday, for four hours over six weeks of supervised instruction, covering the comprehension and active use of the language. The textbook used is Galina Shtefan and others, Introductory Russian Grammar. Xerox College Publishing. Evaluation is on the basis of tests, class performance and homework. No final examination.

Session: Summer Day

RUSAHS Elementary Conversation / Information will be available at a later date in Room H1324

This intensive one half credit course is designed for credit or non-credit student beginning their study of Russian. The class meets daily, Monday through Friday, for two hours over six weeks of supervised instruction. Structured and free conversational practice is based on a selection and reading of easy fictional and non-fictional texts. Students registering for this course must have RUSAB in a corequisite course.

Corequisite: RUSAB

Session: Summer Day

RUSBCY Intermediate Russian / S. Whalen

Course offered in translation. The course will cover reading, writing, listening, and speaking Russian.

Exclusion: RUSAB

Prerequisite: RUSABH or completion of Grade 13 Russian

Session: Winter Day

RUSBID Intermediate Russian / Information will be available at a later date in Room H1324

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 through 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.V. Opredeik, Making Progress in Russian. Xerox, 1972. This is a translation of Progress, S. Khvoitin, Russian as we speak it. Progress: Selection of texts for reading chosen according to the particular interest of students. A final examination accounts for about one third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.

Session: Summer Day

RUSBIDH Intermediate Russian / Information will be available at a later date in Room H1324

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 through Friday, for three hours over six weeks of supervised instruction. The term mark is based on tests, written and oral assignments, class and laboratory participation.

Session: Summer Day

RUSBHD Intermediate Conversation / Information will be available at a later date in Room H1324

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 through Friday, for two hours over six weeks of supervised instruction. Although it can be taken separately, the comprehensive 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 RUSBIDH.

Session: Summer Day

SOCIOLgy

Assistant Chairperson: N. Howell

Sociology is the scientific study of interaction among people, the social relations which they establish, and 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, the consequences of cooperation, competition, and conflict.

Students may wish to take sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as sociology majors.

The introductory course, SOC101, is intended to familiarize students with the special theories, methods, and questions of sociology, as a part of a liberal education. In addition, the 300 level course provides a minimum background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.

Session: Winter Day
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 choosing a course selection and provide for individual advising. There are no formal requirements for these special areas and there will be no designations on diplomas. The faculty advisors for special areas of concentration are:

Social Work - Prof. R.L. James
Urban Studies - Prof. J. Harrington
Science and Medicine - Prof. M. Hammond
Business and Government Administration - Prof. N. Howell
Law and Law Enforcement - T.B.A.
Education - Prof. J.A. Lee

Major Programmes in Sociology

Supervisor of Studies: J.A. Lee

The major programme in Sociology requires the completion of nine and one-half full course equivalents in Sociology, on a 20 course degree. Courses required for the major programme are:

1. SOCR101Y Methods of Research
2. SOCR102Y Social Statistics
3. SOCR103Y History of Social Thought
4. SOCR104Y Contemporary Social Thought
5. One full course equivalent in a microstructural field at the B.A. level. Any one of SOCR105Y, SOCR106Y, SOCR107Y, SOCR108Y, SOCR110Y, SOCR115Y, SCSC101Y or SCSC102Y.
6. One full course equivalent in a microstructural field at the B.A. level. Any one of SOCR102Y or SOCR107Y.
7. Two full course equivalents from the C-level offerings: SOCC101FS, SOCC102FS, SOCC103FS, SOCC104FS, SOCC105FS, SOCC106FS, SOCC107FS, SOCC108FS, SOCC110FS.
8. One full course equivalent from the C-level offerings: SOCC104FS, SOCC105FS, SOCC106FS.

SOCR105Y Structure of Interpersonal Relations / J.S. Urner

This course will study the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. It begins with a basic discussion of the nature of sociological thought 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 work of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.

Prerequisites: One course in Sociology

Session: Winter Day

SOCR106Y History of Social Thought / W.M. Blythe

This course will study the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. It begins with a basic discussion of the nature of sociological thought 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 work of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.

Prerequisites: One course in Sociology

Session: Winter Day, Winter Evening

SOCR107Y 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, labor and politics, wage and price control, immigration law, etc.

Prerequisites: One course in Sociology

Session: Winter Day

SOCR108Y Urban Sociology

Specific topics include a review of theories of urban genesis and urban form; interrelationship of urbanization, industrialization and modernization; issues in urban living (housing, transportation, urban renewal, poverty, unemployment etc.); urban social networks (ethnic and cultural heterogeneity, neighborhood, community and other voluntary associations).

Prerequisites: One course in Sociology

Session: Winter Day, Summer Evening

SOCR109Y Social Statistics / J.S. Urner

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 elementary statistics which includes summarizing data, the logic of statistical decision-making and a number of common statistical tests. A working knowledge of elementary algebra is required. The instructor will undertake brief reviews of mathematics as the need arises. This course is intended to supplement SOCR101.

Prerequisites: One course in Sociology

Session: Winter Day, Summer Day

SOCR110Y Sociology of the Family as a Group / R. James

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 interpersonal problems in the family relationships.

Prerequisites: One course in Sociology

Session: Winter Day, Winter Evening

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SOCB95 Sociology of the Family as an Institution
This course will examine the family in its community, institutional and historical setting, emphasizing the various social factors which will affect family life and its changing nature.
Exclusion: SOCB12
Prerequisite: SOCA81
Session: Winter Day

SOCB73Y Social Class and Social Stratification
This course will study the relationship between science and society. In the first term, the effects of different social structures on the development of science and scientific ideas will be analyzed in a number of historical contexts. During the second term, the effects of science on contemporary societies will be studied, with particular attention given to the Canadian situation. For instance, we will consider from a sociological perspective such topics as nuclear energy and genetic engineering. The course will be of interest to students of both the natural and social sciences.
Session: Winter Day

SOCB74Y Sociology of Science / H. Hammond
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, Winter Evening

SOCB75Y Sociology of Mass Media and Communications / J. Hastigan
The study of the social organization of the mass media - radio, TV, newspaper, magazines and trade publications - and study of effects of contents of mass communications on the general public.
Exclusion: SOCCHR14
Prerequisite: SOCA81
Session: Winter Day

SOCB76Y Social Change / J.L. deLamont
A sociological analysis of forms of change such as industrialization, modernization, urbanization and their consequences for the structure and function of contemporary society.
Prerequisite: One course in Sociology
Session: Winter Day

SOCB77Y Medical Sociology / M. Homewood
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 an introduction to medical sociology.
Session: Winter Day

SOCB78Y Sociology of Deviant Behaviour / R.L. Beals
Topics covered will include the analysis of social processes by which behaviour is defined and treated as criminal, immoral, deviant, 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, "victimless crimes"; mental illness; sexual deviation and alcoholism.
Prerequisite: One course in Sociology
Session: Winter Day

SOCB79Y Sociology of Family / N. Howell
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 nineteenth and early twentieth century theories to link sociology to these sciences. The major part of the course will focus on the more recent attempts to apply an evolutionary perspective to the study of man. The course will consider such issues as the use 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 new theory.
Session: Winter Day

SOCB80Y Ethnic and Race Relations / W.W. Lapine
The course is concerned with the situations in which people in a society meet and mingle, the pattern of relations and behaviour that develop through face-to-face interaction, and the changes in perceptions, values, and attitudes that take place following such contact and interaction. Specific topics to be discussed include: the problem of stereotyping and prejudice; social mobility and "civil rights" movements as processes of change in ethnic status; maintenance of ethnic identity and conflict and continuity between ethnic generations; and ethnic integration especially as it bears upon the question of Canadian bilingualism and multiculturalism.
Prerequisite: One course in Sociology
Session: Winter Day

SOCB81Y Population / N. Howell
Population problems and processes in the modern world, stressing recent trends and their economic and social implications. Students will acquire skills in the construction and interpretation of life tables, population projections and computer simulations of populations. These tools will be used to build an understanding of the Canadian population in historical and comparative perspective.
Prerequisite: One course in Sociology or RSC82
Session: Winter Day

SOCB82F Sociology of Education: Primary and Secondary Levels / J.A. Lee
The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. Also treats formal organization of school systems.
Exclusion: SOCCHR10
Prerequisite: SOCCHR10
Session: Winter Day

SOCB83Y Sociology of Education: University and Adult Levels / J.A. Lee
Accommodation and training of upper-level students, and relationships of higher education to the occupational system.
Exclusion: SOCCHR10
Prerequisite: SOCCHR10
Session: Winter Day

SOCB84F Collective Behaviour / R.O. Thomas
The study of "stereotypically" group behavior: crowds, parades, riots, and the genesis of social movements.
Prerequisites: Two courses in Sociology, one of which must be a B level course.
Session: Summer Day

SOCB85M Social Movements / S. Urgay
The instructor will develop an approach to social movements which includes the following: the origin of social movements, mobilization processes, the impact of the movement and its mobilization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings on movements.
Prerequisites: Two courses in Sociology, including a B level course.
Session: Winter Evening
SOC208 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 untapped opportunities.
Prerequisites: Two courses in sociology.
Session: Winter Day

SOC215R 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 of satisfaction and alienation and future changes and trends are analyzed with special reference to the Canadian labour force.
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Session: Winter Day

SOC218 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: SOC108
Session: Winter Day

SOC222M Mathematical Methods in Sociology and the Behavioural Sciences (M. Rippon)
The course has two main aims: (1) to explain the use of mathematical tools adapted to research in the behavioral sciences (Sociology, Psychology, Economics, Political Science and Anthropology); and (2) to illustrate the use of each tool by examples from literature in those disciplines. The survey of literature will be critical, emphasizing the limitations as well as the powers and potentials of mathematical methods in the behavioral sciences. Acquisition of the calculus, linear algebra, probability and statistics desirable, though not formally required.
Prerequisites: Permission of Instructor
Session: Winter Day

SOC225 Industrial Sociology (H. Harrigan)
Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.
Prerequisites: One B-level course in Sociology. UC/CRD 27 recommended.
Session: Winter Day

SOC23F Sociology of Conflict (M. Rippon)
Theories and methods of analysis of conflict, from games to war. Game theory will be used as a logical framework for assessing the gains and losses of various strategies. Some facility with mathematics will be assumed.
Session: Winter Day

SOC245 Social Change in the Third World (J. LeLann)
Sociological studies of stratification, politics, religion, education, and kinship organization in countries of Africa, Asia, Latin America.
Prerequisites: Two courses in Sociology, one of which must be a B-level. (SOCB14 and SOCIB16 recommended.)
Session: Winter Day

SOC218V Sociology of Art and Culture (M. Hammond)
A seminar on the organization, production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose any form of "high culture" for special research.
Exclusion: SOCB09 and SOCB187S
Prerequisites: Two courses in Sociology.
Session: Winter Day

SOC219V Sociology of Knowledge (R. O'Toole)
The sociology of knowledge as a social process.
Exclusion: SOCB22
Prerequisites: SOCIB03
Session: Winter Evening

SOC224V Sociology of Religion (R. O'Toole)
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.
Exclusion: SOCB09/13
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Session: Winter Day

SOC224F Changing Family Life in Canada
Examination of the major changes in the structure of the family in Canada, and its consequences for family life.
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Session: Winter Day

SOC225R Comparative Race Relations
The purpose of this course is to obtain a critical understanding of "race" as a form of social inequality governing intergroup relations in different societies. Special emphasis will be placed on Canada, the United States, South Africa and Latin America.
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Session: Winter Day

SOC227F Social Class in Canadian Society
Sociological study of social class phenomena in contemporary Canadian Society, bringing to bear both current theory and research.
Prerequisites: Two courses in Sociology.
Session: Winter Day

SOC23R5 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 15 courses including SOCIB05, SOCIB03 and SOCIB06. By permission of instructor only.
Session: Winter Day

SOC234R5 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 15 courses including SOCIB05, SOCIB01 and SOCIB06. By permission of instructor only.
Session: Winter Day
SPANISH

Discipline Representative: J.J. Chichoy-Dahin

Students enrolled in Spanish are offered a wide range of courses in the Spanish language and in

Students who do not intend to major in Spanish are free to choose whichever courses they wish, provided that they have satisfied the relevant prerequisites. Students intending to major will find

All 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, are invited to confer with their

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SPA101Y | Introductory Spanish | R. Byrne
A course in basic grammar and syntax, with instruction in spoken and written Spanish. This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading and conversation. Regular class attendance and participation is essential. Evaluation is based on class participation, written assignments, and tests.
Exclusion: Grade 13 Spanish
Session: Winter Day

SPA107Y | Introductory Spanish | J. R. Price
This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading and conversation. Regular class attendance and participation is essential. Evaluation is based on class participation, written assignments, and tests.
Exclusion: Grade 13 Spanish
Session: Winter Day

SPA108H | Intermediate Spanish | E. Gudde-Njoh
Review of grammar and syntax. Language practice, through conversation in class, tutored practice, translation, reading aloud and oral presentation. Vocabulary acquisition, through drills on idiomatic expressions, translation of both prose and poetry, and composition.
Note: that this is an intensive course that will meet twice a week for three hours per evening. In addition there will be tutorial and practice hours to be arranged with students. This course will count for a full credit.
Exclusion: SPA102
Perquisite: Grade 13 Spanish or SPA101
Session: Spring Evening

SPA109H | Intermediate Spanish | J.J. Chicoy-Dublin
The compositions and translations will be done in homework as well as work in the classroom. One hour per week will be spent in oral practice. The final mark will be comprised of: a) a final examination (40%); b) compositions (20%); c) translations (20%); d) oral practice (20%). Course required for Spanish majors, but open to all qualified students.
Exclusion: SPA102
Perquisite: Grade 13 Spanish or SPA101
Session: Winter Day

SPA115S | Pre-Literary Examination of Texts | R. Byrne
The basic elements of each period in Spanish literature are covered. This course is a prerequisite for Spanish literature and requires that it be taken in the same year as SPA101.
Corequisite: SPA101
Session: Winter Day

SPA140H | Phonetics | R. Byrne
Articulatory phonetics; Spanish speech sounds; intensive practice in their production and transcription.
The objectives of the course are to develop good pronunciation of Castilian (with attention to variations in other dialects) and to provide an introduction to further linguistic work. The weekly lecture concentration on the descriptions and distribution of Castilian speech sounds and emphasizes specific phonetic patterns. In the tutorial hour students practice exercises in articulation, transcription, and dictation. There is one laboratory hour per week of intensive oral practice. This course is required for Spanish majors but open to all qualified students.
Corequisite: SPA101
Session: Winter Day

SPA125S | History of the Spanish Language | J. R. Price
The language of Spain, from pre-Roman times to the present. 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 non-Classical texts (inscriptions, glosses, etc.). The main segment of the course deals with the evolution of the sound and form-systems of Latin into Iberian Romance, focusing on the growth of the Castilian dialect. Illustrative texts will be analyzed and class participation and discussion are encouraged. This course is required for Spanish majors but open to all qualified students.
Perquisite: SPA101
Session: Winter Day

SPA176F | The Nineteenth-Century Spanish Novel | J. R. Price
The evolution of the Spanish novel in the Nineteenth Century will be traced through reading and discussion of the work of representative authors: Costarricos, Realismo, Realism, and Naturalismo.
A sampling of pre-censorship in the Romantic period will lead to an investigation of the gradual emergence of the nineteenth-century Spanish novel as a narrative literary form, and in particular to the problem of the late habits of the realist novel with Goldraux. Following reading and discussion of contemporary and regional novels, attention will be focused on the theory and practice of realism and naturalism in Spain against the background of their counterparts outside the Peninsula. This course is an option for the major programme and open to all qualified students.
Perquisite: SPA101
Session: Winter Day

SPA185Y | Survey of Spanish Literature I | J. R. Byrne
Reading, analysis and discussion of Peninsular Spanish literature from the twelfth to the seventeenth centuries, with the object of acquainting the student with the major literary movements of each period, the authors and their works.
Lectures on background material. Areas of study will include the Medieval lyric, epic and other literary forms; Medieval love poetry; Renaissance poetry and drama; Romanism; Mythology; literature of the Baroque period.
Three lectures/discussions hours weekly. Class participation is essential. Regular oral and written assignments, and one paper.
Exclusion: SPA151
Perquisite: SPA101
Session: Winter Day

SPA195Y | Survey of Spanish Literature II | J. R. Byrne
Reading, analysis and discussion of Peninsular Spanish literature from the eighteenth and nineteenth centuries with the object of acquainting the student with the major literary movements of each period, the authors and their works.
Reading, analysis and discussion of major texts of Peninsular Spanish literature of the period. A continuation of SPA185Y.
Perquisite: SPA101

SPA210F | Golden Age Drama | J. J. Chicoy-Dublin
The Drama of the Spanish Golden Age, 16th and 17th Centuries. Emphasis will be placed on the literary analysis of the plays. Video tapes of professional productions in Spanish, made by the Spanish National Television will be shown.
Spanish specialists will be expected to read the plays in the original text. Non-specialists may read the text in translation.
Exclusion: SPA232Y
Perquisite: SPA101 for those majoring in Spanish. None for others.
Corequisite: SPA201 for those majoring in Spanish; None for others.
Session: Winter Day

SPA225F | Golden Age Prose | J. J. Chicoy-Dublin
The development of Spanish prose writing in the Golden Age.
Perquisite: SPA101

SPA230F | Golden Age Essay | J. J. Chicoy-Dublin
The development of Spanish essay writing in the Golden Age.
Perquisite: SPA101
SPAR2TS  The Poetry and Theatre of Garcia Lorca / Information will be available at a later date in Room H32A.

The following major aspects will be examined: (a) Lorca's early poems; (b) the Romancero Gitano; (c) poetic comedies and tragedies; (d) short plays and farces.

Assignments and evaluation will be discussed at the first meeting.

Prerequisite: SPA800.
Session: Winter Day

SPAR29F  Spanish American Literature: The Short Story

Short story: history of the Spanish current; examination of short stories by Spanish and European authors; in order of the chronology of the short story; reading, analysis, and discussion of the various forms of the Spanish American short story.

Prerequisite: SPA480.

SPAR2AF  Medieval Poetry

Reading, analysis and discussion of major texts in poetry from the twelfth to the fifteenth centuries in Spain.

Prerequisite: SPA800 or SPA801.

SPAR28Y  Topics in Latin American Culture and Literature

This course will attempt to provide students with a basic understanding of Latin American culture and literature.

Exclusion: HUM861, SPA810.
Prerequisite: SPA480.

SPAR261Y  Advanced Spanish / J.J. Chico-Dubin

Intensive study of grammar and syntax; translation, composition, and oral practice.

Detailed examination of the subtleties of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. The final mark will be comprised of 40% for a final examination; and 60% for compositions, translations, and conversations.

Exclusion: SPA820.
Prerequisite: SPA480.
Session: Winter Day

SPAR260F  CP525-C.10B

CLT  Supervised Reading / R. Burin, J.J. Chico-Dubin, P. Leon, R. Skryme

Students who wish to enter the Spanish Supervised Reading Program should enroll in any of the above courses (Y, F or S as appropriate). They should then contact a particular instructor in the discipline and discuss with him a proposed topic. Students should have sufficient background in the area they want to study more closely, and they should provide a rationale for choosing a specific topic of study. 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 (the exact arrangements will depend on the nature of the text and the level of ability of the student).

Specific topics in Peninsular Spanish and Latin American Literature, Linguistics and Culture.

Prerequisites: SPA801; one course in Spanish Literature (SPA813 to SPA817).
Session: Winter Day

See also the following courses offered under Humanities:

HUM861Y  (The Civilization of Spain)
HUM863S  (The Spanish Civil War: Fact to Fiction)
Timetable Changes
Consult September Edition of Master Timetable (blue).

Miscellaneous Corrigenda
P.143 - The following listing should appear:

LING211 /L.D. Woods
Structure of a Language
This course puts 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 this 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; exact proportions of these components in the final grade will be determined later.

Exclusion: LING10
Pre-req Corequisite: LING802, LING811

Session: Winter Day
ANTC125 - offered summer only
CMSK004 - delete course
CMG125 - offered summer only
CMG125T - offered summer evening only as well as winter day
CMG205 - delete exclusion (CMG125)
CMG307 - delete exclusion (CMG125)
ECOR105 - offered winter day only
ECOR110 - prerequisites should read: "ECOR60 or ECOR62 or CMG125"
ECOR114 - there is a screening fee of $10. For this course.
ECOR115 - should be added to Timetable as TMA
ECOR117 - offered winter evening only
ECOR117T - prerequisites should read: "one course in ECO, ECO, ECO or ECO"
ECOR118 - add exclusion: MATG121
ECOR212 - add exclusion: MATG125
ECOR215 - add exclusion: MATG125
ECOR312 - add exclusion: ECOR115
ECW212 - add exclusion: WSG120
ECW215 - offered winter day and evening
ECON305 - offered winter day only
ECON305L - offered winter day and summer evening
SOC105 - prerequisites should read "two courses in Sociology, one of which must be a 3-Level"
SOC107 - SPAR200, SPAR200, SPAR200 - not offered 1974/80

Major Programme in Chemical Physics P.11 - MATG141 should be replaced by MATG139

SOC105 - prerequisites should read: "any two 3-level courses in Social Sciences"

August 1979.
SOC537Y Sociology of Aging/H.J. James
Time: W2-10E
An examination of the latter stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children, the significance of retirement, problems of adjustment to aging, the place of the aged person in the modern family, and intergenerational. 
Prerequisite: SOC612
Session: Winter Evening

Changes in Term
ANT416 from 8'1 to 4'
ANT537 from 4' to 5'
ANT586 from 4' to 6'
ENGL41 from 4' to 5'
ENGL324 from 4' to 5'

Additional Sections Offered
ECON01 302 MPR1 ECON01 1003 MPR1 ECON01 1005 T
ECON011 2001 T1 ECON01 2001 MPR1 ECON01 2001 TA
ECON01 1002 MPR1 ECON01 2002 MPR1 ECON01 1002 TA
ECON01 3001 W1 ECON01 1003 MPR1 ECON01 1003 TA
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ECON01 2006 W1 ECON01 2006 MPR1 ECON01 2006 TA

PSY4405 Current Topics in Animal Learning/F. Klinger
Time: MP-1125
An in-depth examination of substance abuse, covering alcohol, drugs and food. Limited enrollment: 25
The course is concerned with physiological, psychological and social factors in the regulation of alcohol, drugs, and food intake, as well as the etiology of the abuse of these substances. The first half of the course will focus on alcohol and drugs, and will include social and psychological perspectives on the development and maintenance of alcoholism and other addictions. The second half of the course will focus on food intake and obesity, and will include the concept of weight set-point, genetic versus environmental regulatory mechanisms, the importance of fat cell number, dieting strategies, restrictive eating disorders, current treatments for obesity and future alternatives. There will be 3 hours of lectures per week, a mid-term and a final exam worth 60%; class participation is worth 10%.
Prerequisite for 1994/80 only: PSTY454F or permission of instructor.
On Page 193 of the Calendar please add to the last course description under Linguistics:

LING51Y Structure of a Language/J.D.Woods

The entry should now read as follows:

LING51Y Structure of a Language/J.D.Woods

This course puts linguistic theory to work through analysis of a language. The topics covered will vary from year to year, depending on who is involved in the course.

The aim of this 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; exact proportions of these components in the final grade will be determined later.

Exclusion: LIN910
Pre-corequisite: LIN801, LIN981
Session: Winter Day

Please note that the course description for LIN51Y is not part of the course entry for LIN51Y.
Political Sciences 860Y (Political Behaviour)

This course, listed as not offered in the 1979-80 Calendar, will now be offered in the day session. The following information may be of some assistance to you in course selection.

POL860Y Political Behaviour

Exclusion: (POL830Y)

Course Description: 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.

Instructor: J. Fletcher

Session: Winter Day (Wednesday, 9 to 11)

Teaching Method: Lectures and discussion.

TO: Registrant's Office, Student Services Office

FROM: Linda Pearson

This is the first set of timetable changes since
the first corrigenda

Courses Cancelled: GUR316Y
                 GUR323Y
                 GEC21F
                 LIN22F
                 NRG09Y

Courses Added:  GROO5Y - Theory and Method in Modern Quantitative Geomorphology
                GROO48Y - Urbanization in Southern Ontario
                W2-8

Timetable Changes:
GUR313Y  F10-1
ANTRO2Y  T0001  T2
         is a winter evening course
POL82Y  W9-11
ECON21S  W3-5
PSYD7P  MIT2L1F
PSYD8S  MIT2F10

Add Tutorials for PHYA02Y:
T0001  T1
T0002  T2
T0003  T3
T0004  T4

GEO26Y  prerequisites should read any two B-level courses in Social Sciences

Linda
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REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE
To Be Completed by the Student

NAME: _____________________________
STUDENT NUMBER: ____________
SESSION: __________________________

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.
Evaluation: ___________________________________________________________________
SIGNED: ___________________ DATE: ____________

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