University of Toronto **Scarborough College**

UTSC

RETURN TO: S415A
Convocation and
Student Records

# Calendar 1981–82

1981 – 1982
Scarborough Calendar

**Scarborough College**

University of Toronto

# Calendar

# 1981/82

## Important Notes

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

**2** *Curriculum Changes*
The Programmes in this Calendar, and the courses and their descriptions, are accurate at the time of printing. However, the College reserves the right: to withdraw Programmes or to amend their requirements; or to withdraw courses or to amend their descriptions.

**3** *Enrolment Limits*
Scarborough College reserves the right to limit the number of registrants in any Programme or course where the number of qualified students exceeds the teaching or other resources available.

**4** *Course Selection and Registration*
*Key to the Course Descriptions*
Students are urged to read carefully pages 35 to 36 of this Calendar before reading the course descriptions. These pages contain important information about: the designation and numbering of courses; prerequisites, corequisites and exclusions; and about supervised reading, supervised research and independent study courses.
*Prerequisites and Corequisites*
Prerequisites and corequisites may be waived only with the specific permission of the instructor. Students who register in courses without their prerequisites or corequisites, and without the permission of the instructor, may be withdrawn from these courses after the beginning of classes.
*Prerequisite: Permission of Instructor*
Where the prerequisite of a course is permission of its instructor, students who register in the course without permission may be withdrawn after the beginning of classes. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.
*Supervised Reading or Research Courses*
Registration in supervised research or reading courses, thesis courses, etc., requires the written consent of the instructor, provided on the form printed on page 227 of this Calendar. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes by April of the preceding year.
*St. George Campus or Erindale Campus Courses*
Students who propose to register in courses on the St. George or Erindale campus should consult page 19 of this Calendar.

**5** *Registration Information*
Full registration information and the Schedule of Fees will be provided by the Registrar's Office, as follows:
*1981 Summer Session*
Students who were registered at the College in the 1980 Summer Session or the 1980-81 Winter Session should pick up registration information from the Registrar's Office in March or April. New students and students reactivating their enrolment after a year away will be mailed their registration material.
*1981-82 Winter Session*
Students who were registered at the College in the 1980-81 Winter Session will receive registration material in the mail in June 1981. New students and students reactivating their enrolment after a year away will receive their registration information with their letter of admission or with the letter verifying reactivation of their enrolment.

## Contents


Important Notes **2**
Academic Calendar **4**

**1 Admissions and Awards 6**
Bases of Admission **6**
English Facility Requirement **7**
Admission Requirements for Students Entering Scarborough College from Grade 13 in the Fall of 1982-83 and Thereafter **7**
Application Procedures **8**
Application Dates **8**
Admission Awards **9**
In-Course Awards **9**
Graduation Prizes **10**
Scarborough College Honours List **10**
Graduation with High Distinction and with Distinction **10**
Bursaries **10**

**2 Academic Regulations 11**
Selection of Courses **12**
Requirements for the Degree **13**
Programme Requirements: New Rules **14**
Programme Regulations: Applicable to Pre-1980 Students **16**
English Proficiency Requirement **16**
Standing in a Course **17**
Overall Standing **18**
Courses on Other Campuses **19**
Study at Other Universities: Letter of Permission **20**
Study at Other Universities: Study Elsewhere Year **21**
Degrees **22**
Academic Transcripts **23**
Access to Student Records **24**
Withdrawal **25**
Regulations Governing Special Students **26**
Grading Practices Policy **26**
Procedures for Petitions and Appeals **27**

**3 General Information 31**
Discipline: Academic Matters **31**
Non-academic Matters **32**
Appendix: Non-Credit Courses in Writing Skills **33**

**4 Programmes of Study and Course Descriptions 35**
Key to Course Descriptions **35**
List of Programmes: Specialist, Major and College Programmes **37**
Anthropology **38**
Astronomy **45**
Biological Sciences **48**
Canadian Studies **55**
Chemistry **56**
Classical Studies **63**
Commerce **67**
Computer Science **70**
Cooperative Programme in Administration **74**
Drama **78**
Economics **82**
English **88**
Fine Art **95**
French **104**
Geography **112**
Geology **119**
German **120**
Greek **124**
History **125**
History of Ideas **131**
Humanities **132**
Italian **139**
Joint Courses **144**
Language and Literature **145**
Latin **146**
Linguistics **146**
Mathematics **150**
Medieval Civilization **156**
Modern Languages **158**
Music **158**
Myth and Religion **160**
Natural Science **161**
Neurosciences **162**
Philosophy **164**
Physics **169**
Political Science **173**
Psychology **178**
Quaternary Studies **186**
Renaissance Studies **187**
Russian **189**
Social Science **192**
Sociology **192**
Spanish **198**
Statistics **202**
Women's Studies **203**

**5 Timetable 204**
Summer Session Timetable **205**
Winter Session - Evening Timetable **206**
- Academic Timetable **208**

Officers of the University **219**
Administration and Faculty of Scarborough College **219**
Campus Location **225**
Date Calendar **226**
Request to Register in a Supervised Reading or Research Course **227**

# Academic Calendar

## Summer Session 1981

| | |
|---|---|
| April 1 | Last day for new students to apply for admission to the University for the Summer Session wishing to enrol in 'Y', 'A', 'F' or 'H' courses. |
| May 15 | Last day for new students to apply for admission to the University for the Summer Session wishing to enrol in 'B' or 'S' 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. |
| May 8 | Last day to register for 'Y', 'A', 'F' and 'H' courses. |
| May 11 | Classes for 'Y', 'A', 'F' and 'H' courses begin. |
| May 15 | Last day to add 'Y', 'A', 'F' or 'H' courses. |
| May 18 | Victoria Day - University closed. |
| June 5 | Last day to withdraw from 'A' and 'F' courses. |
| June 19 | Last day of classes in 'A' and 'F' courses on the St. George and Erindale Campus. |
| June 22-June 25 | Final Examinations in 'A' and 'F' courses on the St. George and Erindale Campus. |
| June 26 | Last day of classes in 'A' and 'F' courses at Scarborough College. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week. |
| June 26 | Last day to register for 'B' and 'S' courses. |
| July 1 | ~~Canada~~ Day holiday - University closed. |
| July 2 | Classes for 'B' and 'S' courses begin. |
| July 8 | Last day to add 'B' or 'S' courses. |
| July 15 | Last day to request conferment of degree at the Fall Convocation |
| July 17 | Last day to withdraw from 'Y' or 'H' courses. |
| July 24 | Last day to withdraw from 'B' or 'S' courses. |
| August 3 | Civic holiday - University closed. |
| August 14 | Last day of classes for 'Y', 'B', 'H' and 'S' courses on the St. George and Erindale campus. |
| August 17-August 21 | Final Examinations in 'Y', 'B', 'H' and 'S' courses on the St. George and Erindale Campus. |
| August 21 | Last day of classes in Scarborough College courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week. |

## Winter Session 1981-82

| | |
|---|---|
| June 30 | Last day for new students to apply for admission to the University for the Winter Session wishing to enrol in 'Y', 'A', 'F' and 'H' courses. Applications will be accepted after this date to the maximum extent possible. However, applications received by this date will receive priority consideration. |
| September 7 | Labour Day - University closed. |
| September 8-September 9 | Registration for students who did not complete all registration procedures previously. |
| September 14 | Classes for 'Y', 'H', 'F' and 'A' courses begin. |
| September 25 | Last day to add 'Y', 'H', 'F' or 'A' courses. Last day this term to transfer into a new Specialist, Major or College Programme. |
| October 12 | Thanksgiving Day - University closed. |
| November 6 | Last day to withdraw from first term 'F' or 'A' courses. |
| December 11 | Last day of classes in the first term. |
| December 11 | Last day for submission of term assignments in 'F' and 'A' courses. |
| December 14-December 23 | Term test and final examination period. |

## 1982

| | |
|---|---|
| January 4 | Classes for 'B' and 'S' courses begin. |
| January 15 | Last day to add 'B' or 'S' courses. Last day this term to transfer into a new Specialist, Major or College Programme. |
| February 12 | Last day to withdraw from 'Y' and 'H' courses. |
| February 15 | Last day to request conferment of degree at the June Convocation. |
| February 15-February 19 | Reading Week - all classes cancelled. |
| February 26 | Last day to withdraw from 'B' or 'S' courses. |
| April 8 | Last day of classes; no tests or examinations may be held until the beginning of the examination period. |
| April 9 | Good Friday - University closed. |
| April 19 | Last day for submission of term assignments for 'Y', 'H', 'S', or 'B' courses. |
| April 19 | Annual examinations begin. |
| May 7 | Annual examinations end. |
| June 14 | Spring Convocation begins. |

# Admissions and Awards

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

The Office of Admissions University of Toronto
315 Bloor Street West Toronto, Ontario, M5S 1A3

**Bases of Admission**

**1** *Ontario Grade 13*
Admission to the College may be offered to students in an Ontario Secondary School who have demonstrated good standing, including:
*a* completion of secondary school studies, including a full programme of academic work at the Grade 13 level;
*b* - before 1972, seven Grade 13 credits were required
- 1972 to present, six Grade 13 credits are required
*c* submission of a complete academic report for the last three years of secondary school.

**2** *Other Canadian Provinces*
*Alberta, Manitoba, Nova Scotia, Saskatchewan* - Grade 12
*British Columbia* - before 1969 - Grade 13 or 1st year University of British Columbia
- 1969 to present - Grade 12
*New Brunswick* - before 1970 - Grade 13 or 1st year University of New Brunswick
- 1970 to present - Grade 12
*Newfoundland* - 1st year Memorial University
*Prince Edward Island* - 1st year University of Prince Edward Island
*Quebec* - *C.E.G.E.P.* 1 or equivalent

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

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

**5** *Non - Matriculants*
Applicants who do not hold the published admission requirements may be considered for admission, where the applicant:
*a* is 21 years of age; and
*b* has been resident in Ontario for at least one year as a Canadian citizen or permanent resident; and
*c* achieves high standing in one, special, pre-university course;*

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

**6** *Special Admission and Appeals*
Students who have not completed secondary school, but who have had other educational or work experience which they believe demonstrates their ability to do university work, may put forward a special case to the Scarborough College Special Admissions Committee. Such cases will be considered only where applicants are Canadian citizens or permanent residents, have been Ontario residents for one year, and are at least twenty-one years of age.

Students who have completed secondary school or some post-secondary study, but whose grades do not meet the usual admission requirements, may bring special circumstances to the attention of the Special Admissions Committee.

Applicants who wish to have a special case considered by the Special Admissions Committee should arrange an interview with the Admissions/Liaison Counsellor, telephone (416)284-3359. Students may also write to the Admissions/Liaison Counsellor, Scarborough College, University of Toronto, 1265 2c2Military Trail, West Hill, Ontario, M1C 1A4.

**7** *Senior Citizens*
The University admits Canadian citizens and permanent residents age 65, by the first day of term, into Arts and Science courses as Special Students. Tuition fees and normal academic requirments are waived.

**English Facility Requirement**

Students whose mother tongue is not English and who have not completed at least two years of *study in a Canadian secondary school are* required to present evidence of facility in the English language.

Students may complete this requirement by: earning a score of at least 90 on the University of Michigan Test of English Language Proficiency; earning a score of at least 550 on the Test of English as a Foreign Language (T.O.E.F.L.).

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

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

**1** Grade 13 academic subjects will be arranged into the following groups for the purposes of admission:
Group A - English/*anglais*
Group B - Languages other than English
Group C - Mathematics
Group D - Sciences
Group E - Other Humanities and Social Sciences
Group F - Other Subjects
**2** For admission, at least six Grade 13 credits will be required in the above subjects distributed as follows:
*a* at least one credit in English/*anglais*
*b* sufficient additional credits for a total of six, chosen in such a way as to cover at least two groups in addition to Group A and including at least one credit in either Group B or Group C.

**3** Among the six credits required for admission, applicants may not present more than:
*a* two credits in English, however designated;
*b* three credits in Mathematical subjects;
*c* two credits in any other subject.
*Note:* If applicants wish to qualify under Group C, they must include at least one of either Algebra, or Calculus or Relations and Functions.
**4** For the admission cycles 1982, 1983 and 1984 one Grade 13 credit will be accepted from Group F which consists of the following subjects:
Accounting
Dramatic Arts
Family Studies
Law
Multidisciplinary Studies
Other Arts Studies
Physical & Health Education
Screen Education
Visual Arts
**5** *With the beginning of the 1982 admission* cycle the following subjects will no longer be accepted as Grade 13 credit for admission to the College:
Data Processing
Marketing and Merchandising
Other Business Studies
Secretarial Practice
Technological Studies
The College will be prepared to give special consideration to applicants who find it impossible to meet the 1982 admission requirements because of extenuating circumstances. These changes in 1982 Admission Requirements are dependant on the approval of the Governing Council of the University.
**6** The University is aware of the special needs of students whose first language is not English and whose experience of English, in an English-speaking educational environment, is insufficient to prepare them for Grade 13 English. For further information, please contact the Office of Admissions, 315 Bloor St. W. Toronto, Ontario. *M5S 1A3 phone 416/978-2771.*

Note:

It is understood that applicants who present a subject from Group F must also satisfy the distribution requirement of Group A and at least two of Groups B,C,D and E, including at least one credit in either Group B or Group C.

**Application Procedures**

**1** *Current Ontario Grade 13 Students*
Students currently enrolled in an Ontario secondary school should submit applications through their school guidance or student services office.

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

**Application Dates**
Students are strongly advised to submit application forms as soon as possible and before the following dates:
Admission to the Summer Session Term I (beginning in May) - April 1
Admission to the Summer Session Term II (beginning in July) - May 15
Admission to the Winter Session Term I (beginning in Sept.) - June 30
Admission to the Winter Session Term II (beginning in Jan.) - November 15
Applications will be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration.

# Awards

**Admission Awards**

**Plumptre Admission Scholarship.** Awarded to the Grade 13 student whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor A.F. Wynne Plumptre, a former principal of Scarborough College.
**Frederick A. Urquhart Admission Scholarships.** Eight scholarships are awarded to students on the basis of exceptional academic achievement in Grade 13.
***University of Toronto, Scarborough College* Admission Scholarships.** A substantial number of admission scholarships is awarded each year on the basis of excellent academic standing as demonstrated by Grade 13 marks, Grade 12 marks and other information submitted by the secondary schools.
To apply, Grade 13 students should complete an application form, available in all Ontario secondary schools in early spring. Successful applicants will be notified at the time they receive an offer of admission to the University.
**Scarborough College Alumni Admission Award.** Awarded to a Graduate of a Borough of Scarborough High School (Public or Separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications will be available from Scarborough Schools.

**In-Course Awards**

**The Hudson's Bay Company Scholarship.** *Awarded to the student who has demonstrated* outstanding academic achievement at the end of third year. The scholarship alternates between students in the Humanities/Social Sciences and Life Sciences/Physical Sciences. All appropriate students with excellent academic standing are considered; no application is required.
**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.
**Vincent Bladen In-Course Scholarships.** A total of six scholarships are awarded on the basis of exceptional academic achievement at the completion of each year of study in the Humanities, Sciences or Social Sciences.
**The Ali Tayyeb Scholarship.** Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. Awarded in memory of Professor Ali Tayyeb, a former member of the faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty; no application is required.
**Scarborough College General In-Course Scholarships.** Awarded to the outstanding student in each year at Scarborough College, in each of Humanities, Science and Social Sciences. All students with excellent academic standing are considered; no application is required.
***University of Toronto In-Course Scholarships.*** Awarded to the outstanding students who have completed at least one year's work at the University of Toronto. All students with excellent academic standing are considered; no application is required.
**Scarborough College Students' Council In-Course Award**. Three awards are made to students who have at least a "B" average or better and have contributed to the academic, social or cultural life of the College. Students must have three nominators for this award; one must be a member of the faculty; one must be a member of the student body.
**Bladen Prize in Economics.** Awarded on the basis of an essay submitted by a student specializing in Commerce or Economics on any subject covered by a "B" and "C" level course in Economics.
**John Pounder Prize in Astronomy**. Awarded to a full-time student with an overall average of A- (80%) or higher in the current year and with the highest grade (at least A-) in ASTA02Y.
***William Beardmore Memorial Prize in History.*** To be awarded to the student completing third year, who in the opinion of the members of the teaching staff in History, has excelled in the study of History. Awarded in the memory of the late William Beardmore, a History Graduate of Scarborough College.
**Diefenbaker Essay Prize.** Awarded on the basis of an essay, 2,500 to 5,000 words in length, on any topic within the general field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are nominated by instructors.

# 2

# Academic Regulations

### Graduation Prizes

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

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

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

**Ali Tayyeb Prize.** Awarded to the outstanding member of the graduating class in Geography.

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

**The Graduation Prize in Sociology.** Awarded to the student who has achieved the highest scholastic average (G.P.A.) in either the Sociology Specialist or Major Programme. The G.P.A. is based on all sociology courses attempted for which a mark is entered on the transcript.

### Scarborough College Honours List

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

### Graduation With High Distinction and With Distinction

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

### Bursaries

**University of Toronto Undergraduate Bursaries.** Applicants for bursaries must demonstrate exceptional financial need. Applications may be obtained from the Student Services Office. Deadline: November 1, however, applications will be accepted throughout the Winter session, should emergencies arise.

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

**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) with specialization in Psychology. The bursary is awarded on the basis of academic standing (at least Grade B standing is required) and financial need. Awarded in memory of Professor Vivian Paskal, a former member of the faculty in Psychology. The competition will be announced each spring, with applications available from Student Services.

**Ontario Student Assistance Programmes.** Canadian citizens or permanent residents who have established themselves as Ontario residents, and who demonstrate financial need, may be eligible for interest-free loans or grants. Full information may be obtained from the Student Services Office.

## Student Responsibility

**1** It is the responsibility of each student to read these academic regulations carefully and to adhere to them. It is also the responsibility of each student to read carefully instructions and information issued from time to time by the College concerning registration procedures, fees payment, standards of academic honesty and the like.

**2** Some of these regulations may appear to be complicated. Counsellors in the Student Services Office would be pleased to assist any student in the interpretation of these regulations, in explaining the application of any regulation in a particular case, and (where appropriate) in assisting students who encounter special difficulties to request special consideration with respect to the regulations.

### Course Selection

**1** In selecting their courses, students must adhere to the following regulations:

*a* Courses selected must satisfy the degree requirements.

*b* Courses must satisfy the requirements of students' Programmes of study (Specialist Programmes, Major Programmes or College Programmes). (The completion of an appropriate Programme(s) of study is mandatory only for students who first registered at the College in the 1980 Summer Session or thereafter when the "Programme" requirements came into effect.)

~~c Students may register for credit in no more than seven A-level courses.~~[1]

*d* Students proceeding to a three-year degree may include, among the fifteen courses required for their degree, no more than ten courses in any single discipline. (This regulation applies only to students who first registered at the College in the 1980 Summer Session or thereafter when this regulation came into effect.)

*e* Prerequisites and corequisites for each course (as stated in the course descriptions) must be met, unless waived by the instructor.

*f* Students may not register for credit for a course if they have already passed[2] another course shown (in the course description) as an exclusion to that course.

*g* Students may not re-register for credit in a course if they have already passed that course. Students may re-register in a course they have taken, but failed. In such cases, both registrations in the course are shown on the student's record, and both grades count in the student's grade point average.

*h* Students may not register for credit in a course which is a specific prerequisite for a course they have already passed.[3]

**2** Students in good standing may select as many courses as they wish each Session (and proceed to their degrees at a rate of their own choosing); students should, however, note the following.

*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.

**3** ~~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.~~ See Corrigenda item on opposite page.

**4** Students must register for their courses in accordance with instructions issued each Session by the Registrar. Students who wish to change their registration:

*a* may do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" section of this Calendar;

*b* must notify the Registrar of any change by means of a "Registration Change Form", submitted by the appropriate deadline, and completed in accordance with instructions issued by the Registrar.





**1 Three-Year Degree: New Requirements**
The following "new" requirements apply only to students first registered at the College in the 1980 Summer Session or thereafter. To qualify for a three-year degree, such students must:

*a* pass at least fifteen courses;

*b* among these fifteen courses, include no more than ten courses in any single discipline;[4]

*c* among these fifteen courses, pass at least eight B-level and/or C-level courses;

*d* complete the requirements of a Major Programme[5] or a College Programme;

*e* earn a grade of 'C-' or better in at least ten courses, including at least six B-level and/or C-level courses;

*f* earn a cumulative grade point average of at least 1.50;

*g* for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.

**2 Three-Year Degree: Old Requirements**
The following "old" requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a three-year degree, such students must:

*a* pass at least fifteen courses;

*b* among these, pass at least eight B-level and/or C-level courses;

*c* obtain a grade of 'C-' or better in at least nine courses, including at least five B-level and/or C-level courses; and

*d* for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.

**3 Four-Year Degree: New Requirements**
The following "new" requirements apply only to students who first registered at the College in the 1980 Summer Session or thereafter. To qualify for a four-year degree, such students must:

*a* pass at least twenty courses;

*b* among these, pass at least thirteen B-level and/or C-level courses;

*c* complete: (i) a Specialist Programme,[6] or (ii) two Major Programmes, or (iii) a Major Programme and a College Programme;

*d* earn a grade of 'C-' or better in at least fourteen courses, including at least ten B-level and/or C-level courses;

*e* earn a cumulative grade point average of at least 1.50;

*f* for a Bachelor of Science degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

**4 Four-Year Degree: Old Requirements**
The following "old" requirements apply only to students who first registered at the College in the 1979-80 Winter Session or earlier. To qualify for a four-year degree, such students must:

*a* pass at least twenty courses;

*b* among these, pass at least thirteen B-level and/or C-level courses;

*c* obtain a grade of 'C-' or better in at least thirteen courses, including at least nine B-level and/or C-level courses; and

*d* for a Bachelor of Science Degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

**5 Courses in Science for the B.Sc. Degree**
The following courses are considered to be courses in Science for purposes of determining eligibility for the Bachelor of Science degree.

*a* All B-level and C-level courses in the following disciplines: Astronomy, Biological Science, Chemistry, Computer Science, Geology, Mathematics, Physics, Psychology and Statistics.[7]

*b* The following courses in Anthropology: ANTB11, ANTB12, ANTB14, ANTB15, ANTB22, (ANTB25)[8], ANTB26, ANTB27, ANTB29, (ANTB33), (ANTB36), ANTB39, ANTB40, ANTB43, ANTB44, ANTB47, ANTB48, ANTB52, ANTB53, (ANTC08), ANTC12, and ANTC36.

*c* The following courses in Geography: GGRB02, GGRB03, GGRB07, GGRB15, (GGRB18), GGRB19, (GGRB21), GGRB24, GGRB25, GGRB29, GGRC05, (GGRC15), (GGRC23), GGRC24, GGRC25, GGRC28, GGRC30, GGRC32. In addition, GGRC01 may be used to fulfil the B.Sc. requirements for students researching in appropriate scientific areas of Geography.

*d* The following joint courses: JBC, JMC, JMP, JPA, JPM courses and JLPB55 (as given in 1976-77 only). Psychology students should note that JLPB55 is not normally credited towards the science requirement for the B.Sc. degree.

*e* (NSCB02), QUAB02 and QUAB03.

NOTES

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

2 *To Pass A Course.* To pass a course means to obtain a grade of 'D-' or better in that course (or "Credit" in a Credit/No Credit course).

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

4 A discipline ("a branch of knowledge or of teaching" such as History or Physics or Sociology) is defined, for purposes of this regulation, as a subject area:

*a* in which courses are listed together in the same section of course descriptions in this Calendar, and

*b* whose courses share the same "discipline abbreviation" in the course code, e.g. HIS or PHY or SOC.

Where students register in courses offered jointly by two disciplines (e.g. JBCB35 - a joint Biology and Chemistry course in Biochemistry), students may count the course in whichever discipline they wish.

5 The usage of the term "Major Programme" changed substantially in 1980-81. What were previously called "Major Programmes" have subsequently been called "Specialist Programmes".

6 "Specialist" Programmes were until 1980-81 called "Major" Programmes.

7 "MAT" & "STA" courses, are considered to be courses in Science for purposes of determining eligibility for the B.Sc. degree. Other courses in statistical methods offered by various other disciplines may or may not count as courses in Science for purposes of this rule. Thus, for example, ANTB43, GGRB02, PSYB07 and PSYB08 are listed in the rule and may be counted as science courses; ECOB11, ECOB12 and SOCB06 may not.

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

COURSE SELECTION

3) **A student who is on probation may carry a course load of no more than 5.0 in any one term of the Winter Session or 2.0 in any one term of the Summer Session. Under these circumstances, course load is determined by assigning the following values to courses:**

| Final letter of course code | 1st term value | 2nd term value |
|---|---|---|
| A | 2.0 | 0.0 |
| B | 0.0 | 2.0 |
| T | 1.0 | 0.0 |
| U | 0.5 | 0.5 |
| S | 0.0 | 1.0 |
| Y | 1.0 | [illegible] |

# Programme Requirements: New Rules

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

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

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

*a* a Specialist Programme, or
*b* two Major Programmes, or
*c* a Major and a College Programme.

**3 Specialist Programmes**

Specialist Programmes are designed to provide *depth and intensity of study within a limited area* - a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. (A list of Specialist Programmes may be found on p. 37.)

**4 Major Programmes**

Major Programmes are designed to provide *concentration* in an area of study - a discipline, a group of disciplines or a particular theme or area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses. (A list of Major Programmes may be found on p. 37.)

**5 College Programmes**

College Programmes are designed to provide an *organizing framework* for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three- or a four-year degree. (A list of College Programmes may be found on p. 37.)

**6 Approved Individual Programmes**

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

a Normally, such proposals will be considered favourably only from students on the Scarborough College Honours List (see page 10).
*b* Proposals should be made to the Associate Dean, who will convey them to the College Sub-committee on Academic Programmes.
*c* Proposals may be made at any time after the session in which students complete their fourth course.
*d* Proposals submitted before 15 July will be considered in time to enable students to register in their Approved Programmes in the forthcoming Winter Session. If possible, proposals should be submitted earlier.

**7 Course Selection for Programmes of Study**

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

*a* A member of the College faculty serves as Supervisor for each Programme. Students should note that, in certain Programmes, approval by the Supervisor of some or all courses is necessary. In all Programmes, the Supervisor is available for advice concerning Programme requirements and course selection.
*b* While students in their first year of full-time study, or first four courses of part-time study, are not required to select a Programme, such students should, when selecting their first year courses, consider carefully the requirements of any Programmes they may later choose to follow. Supervisors, instructors in A-level courses, other appropriate faculty members, and counsellors in Student Services may be consulted for assistance.
*c* Students in their second and higher years of full-time study, and part-time students who have completed more than four courses, should consult annually with the Supervisors in their Programmes to ensure that their course selection will meet Programme requirements.

**8 Registration in Programmes**

*a* First year students (or students in their first four courses of part-time study) are not required to choose, or register in, a Programme(s). Rather students may make use of their experience in their first-year courses to help them select their Programmes. To this end, students are not required to take more than two courses in any discipline in their first year of study. However, as noted above, students should ensure that their first-year course selection will fulfil the requirements of any Programme they may later choose to follow.
*b* Beginning with their second year of full-time study (or following their fourth course of part-time study), students must register in one or two Programmes of study.
*c* Students register in their Programmes at the time they submit their course registration for any Winter Session.

**9 Programme Transfers**

*a* Students who wish to transfer from one Programme to another must discuss the proposed transfer with the Supervisor in the new Programme, and obtain the Supervisor's approval.
*b* To register the transfer, students must submit to the Registrar's Office a "Registration Change Form", signed by the Supervisor of the new Programme. This form must be submitted by the last date to add courses in any term.

**10 Certification of Completion of Programmes**

*a* Certification of completion of Specialist, Major and College Programmes will appear on students' transcripts.
*b* Students request certification of completion of their programmes early in their final session of study at the College, at the same time as they request inclusion of their name on the graduation list. (See below, "Degrees". Students are given complete information about this procedure early in each Summer and Winter Session.)

**11 Regulations Concerning Programmes of Study**

*a* Students may register in no more than two Programmes at any time. Students may receive certification of completion of no more than two Programmes.
*b* Where a student is registered in two Major and/or College Programmes with overlapping course requirements, a student may use no more than two courses to fulfill the requirements of both Programmes. In cases where two Programmes have an overlap of more than two courses, students must substitute additional courses, approved in advance by either Supervisor, to reduce the overlap to two courses or fewer. Such substitutions should be discussed with the appropriate Supervisor when the student first registers in the overlapping Programmes.
*c* Where a student completes the requirements of a three-year degree and of a Major or College Programme, and subsequently chooses to complete a four-year degree and Specialist Programme, the student may use the courses already accredited to the Major or College Programme to fulfill the requirements of the Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Major or College Programme will be removed from the student's transcript and will be replaced by certification of the Specialist Programme. (Students will note that the requirements of the Specialist Programme and the corresponding Major or College Programme have been designed to facilitate changes between the Programmes.)

**12 St. George Courses and Programmes**

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

## Programme Regulations: Applicable to Pre-1980 Students

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

**2** Where students had passed fewer than five courses as of the beginning of the 1979-80 Winter Session and wish to complete a Programme, they will be expected to complete the Programme requirements set out in the 1980-81 Calendar, or in subsequent Calendars.

**3** Students who had passed at least five courses as of the beginning of the 1979-80 Winter Session, retain the right to certification by completing the Programme described in the 1979-80 Calendar.

*a* Students who are eligible to receive certification by completing Programmes described in the 1979-80 Calendar are advised nonetheless to consider the merits of the new Programmes described in this 1981-82 Calendar and to consult with the Supervisor about the wisdom of opting for one Programme over the other.

*b* Students who are eligible to receive certification by completion of "old" Programmes are also cautioned that in some cases curriculum restructuring has followed the redesign of Programmes. Students will therefore require advice on selection of new courses to meet the requirements of the old Programmes.

*c* In cases where students choose to receive certification by completion of old Programmes, Supervisors and students should record the Programme and course selection agreed upon so that problems will not arise when students become eligible to graduate and receive Programme certification.

## English Proficiency Requirement

The following requirement applies only to degree students[9] who first registered at Scarborough College in the 1980 Summer Session or thereafter. Such students must demonstrate an appropriate level of proficiency in the use of the English language, as follows:

**1** All students will be required to take a designated test in English language proficiency at the first opportunity after admission. Students who pass this test will be deemed to have met the English proficiency requirement.

**2** Students who fail the test must meet the English proficiency requirement within a two year residence period[10] after their first attempting the test. They may do so either:

*a* by passing the test at a subsequent sitting, or

*b* by passing a designated course in English language skills. (These courses are described in an Appendix to this section of the Calendar.)

**3** Students who fail to meet the English proficiency requirement within the two year residence period will be refused further registration until such time as the requirement has been satisfied.

NOTES

9 Special students, that is students not proceeding towards a University of Toronto degree, are not required to satisfy this requirement.

10 Where a student registers for no courses in any twelve month period, this year will not be counted as one of the two "residence" years in which the student must satisfy this requirement.

## tanding in a Course

**Grading Scheme**

udents are assigned a grade in each course, as llows:

| ade | Grade Point Value | Percentage Equivalent | Definition |
|---|---|---|---|
| + | 4.3 | 90–100 | |
| | 4.0 | 85–89 | Excellent |
| - | 3.7 | 80–84 | |
| + | 3.3 | 77–79 | |
| | 3.0 | 73–76 | Good |
| – | 2.7 | 70–72 | |
| + | 2.3 | 67–69 | |
| | 2.0 | 63–66 | Adequate |
| – | 1.7 | 60–62 | |
| + | 1.3 | 57–59 | |
| | 1.0 | 53–56 | Marginal |
| – | 0.7 | 50–52 | |
| R | No value | | Credit in a Credit-/No-Credit course |
| | 0.3 | 35–49 | Inadequate |
| | 0.0 | 0–34 | Wholly Inadequate |
| CR | 0.0 | | No credit in Credit-/No-Credit course |

rades of 'E', 'F', and 'NCR' are failing grades, elding no standing in a course and no degree redit.

**Credit/No Credit Courses**

n some courses such as music performance ourses, drama courses, or conversation ourses in languages, specific letter grades may ot be assigned. Students may instead be graded n a Credit/No Credit (CR/NCR) system. Vhere a student earns a grade of "Credit" in uch a course, the course counts as one of the ourses required for the degree and as one of the ourses at C- or better required for the degree. he grade of No Credit is a failing grade, yielding o standing in the course and no degree credit. Vhere students earn a grade of "Credit" in a ourse, the course is not included in the grade oint average; where students earn a grade of No Credit", the course is included as an "F" value zero) in the grade point average.

**Standing Deferred**

he Sub-committee on Standing may, on petion, assign an interim grade of "Standing Deferred" (SDF). This grade is assigned in cases where an extension of time to complete a course s granted on the basis of medical or similar evidence. The grade of "Standing Deferred" must be replaced by a regular grade assigned by the instructor before the expiry of a specific extension period. (Until such time, grade point averages will not be calculated and academic status will not be assessed.)

**4 Aegrotat Standing**

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

**5 Extra Courses**

Where a student is permitted, on petition, to take an extra course, the course and its grade will appear on the student's transcript (designated as an extra course) but the grade will not be included in any grade point average or in the determination of academic status.

# Overall Standing

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

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

**2 Determination of Academic Status**
Academic status will be determined as follows for students who have attempted at least four full courses (or equivalent).

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

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

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

d **Suspended or Refused Further Registration**
Students who are on probation shall be liable for suspension or refusal of further registration if:
- they have attempted at least two full courses (or equivalent) since most recently having been placed on probation; and if
- they still have a cumulative GPA of less than 1.50.
*i* A probationary GPA shall be calculated for such students, being the GPA of all courses taken since the student was most recently placed on probation.
*ii* Where the probationary GPA is 2.00 or better, the student may continue on probation.
*iii* Where the probationary GPA is less than 2.00, the student will incur suspension or refusal of further registration.
- Students who have incurred no previous suspension will be *suspended for one year.*
- Students who have previously incurred (at worst) a one year suspension will be *suspended for three years.*
- Students who have previously incurred a three year suspension will be *refused further registration* in the College.

**3 Petitions for Application of Pre-1978 Rules**
The rules governing the determination of academic status in (2) above, were introduced as of the 1978 Summer Session.

a Where students began their degree programmes under the "old" (pre-Summer 1978) rules, and where students incur suspension or refusal of further registration under the "new" rules (above), students may petition for application of the "old" rules. (The "old" rules may be found on pages 24-25 of the 1979-80 Calendar, or may be consulted in the Registrar's Office or the Student Services Office.)

b Such petitions will be granted, *except:*
*i* where students would incur the same penalty, or a more severe penalty, through application of the old rules; and
*ii* where students would, in some earlier session, have incurred the same penalty or a more severe penalty through application of the old rules.

c No petition for application of the old rules will be granted to prevent a student from being placed on probation under the new rules.

d Students who began their degree programmes before the 1978 Summer Session, and who incur suspension or refusal of further registration, are invited to consult with the Registrar's Office to determine their eligibility to petition for application of the old rules.

**4 Determination of Academic Status for Students Admitted on Condition**
In certain circumstances, students who do not meet normal admission requirements may be admitted "on condition". The academic status of such students is determined according to the following rules:

The standing of students admitted on condition will be assessed at the end of the session in which such students complete their first second course (full course or equivalent).
Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be said to be "in good standing."
Where such students earn a grade point average of less than 1.70, they will be suspended for one year.
Upon their return from suspension, their academic status will be assessed according to the appropriate rules, in (2) above.



# Courses on Other Campuses

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

**1 Full-time Students**

a *Definition*
For purposes of these regulations, a full-time student is defined as one enrolled in four or more courses in a Winter Session. For purposes of application of these regulations, in the Summer Session, a full-time student is defined as one who completed four or more courses in the preceding Winter Session.

b *Equivalent Courses*
*i* Full-time students may not register in any course on another campus in the Winter Session where an equivalent course is offered on the Scarborough Campus in the same Session. A list of courses, deemed to be equivalent for purposes of this rule, may be consulted in the Registrar's Office, in Student Services, or in any of the Divisional Offices.
*ii* Exempted from this rule are students who have, at the beginning of the session, passed fourteen or more courses and who are enrolled in a Specialist Programme which specifies completion of one or more courses on the St. George Campus.
*iii* This rule concerning equivalent courses does not apply to the Summer Session.

c *Sessional Limits*
*i* A full-time student may register in a maximum of *two* St. George or Erindale courses in any Winter Session.
*ii* A full-time student may register in a maximum of *one* St. George or Erindale course in any Summer Session.
*iii* These sessional limits apply only to students who have completed fewer than fourteen courses. For students who have completed fourteen or more courses, there is no limit on the number of St. George or Erindale courses they may take in a session.

d *Overall Limits*
Of the total number of courses completed by Scarborough College students, at least one half must at all times be Scarborough College courses. (The total number of courses refers to the sum of the courses in which students are registered plus those which they have already passed.)

## Study at Other Universities: Letters of Permission

**2 Part-time Students**

*a* As part-time students are often able to take courses only in the evening (and hence have a relatively limited range of courses available) and 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. For purposes of application of these regulations in the Summer Session, a part-time student is defined as one who completed three and one-half or fewer courses in the preceding Winter Session.

*c* Of the total number of courses completed by Scarborough College students, at least one half must at all times be Scarbrough College courses. (The total number of courses refers to the sum of the courses in which students are registered plus those which they have already passed.)

**3** Students should be aware that there is a limited number of places in 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/Erindale campus students in the assignment of places.

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

Students in good standing may request permission to take a limited number of courses at another university for credit towards their University of Toronto degree. Students who wish to study at another university on a part-time basis may be granted letters of permission.

**1 Letters of Permission**

*a* To take a course at another university, students must, *in advance,* request a "Letter of Permission" from Scarborough College.

*b* Requests should be addressed to the Admissions/Liaison Counsellor, on a form available from the Student Services Office. Requests should include the name of the university, the course number, title and description. Requests should be submitted well in advance of the date of the proposed courses.

*c* Credit will not be granted for courses for which prior permission has not been requested and approved.

**2 Minimum Grade Requirement**

To receive credit for a course taken at another university on a "Letter of Permission" the student must earn at least one grade higher than the minimum passing grade (e.g. a grade of 'C-' or better at universities employing a grading system similar to that of the University of Toronto).

**3 Accountability for Courses on Letter of Permission**

Students who have requested and received a letter of permission are required to submit an official transcript from the host university promptly after completion of the course. Students who do not register for their course, or who withdraw without penalty from it, are required to submit a confirming letter from the Registrar of the host university. Failure to meet this requirement may result in a grade of 'F' being entered on the student's record at Scarborough College.

**4 Limits on Letters of Permission**

*a* *For a three-year degree*-Students may take a maximum of five courses at other recognized institutions on letters of permission provided that, by the end of their degree programmes they:

*i* complete at least 8 courses at Scarborough College;

*ii* complete at least three B/C level courses with a grade of at least C- at this University.



## Study at Other Universities: Study Elsewhere Year

*For a four-year degree*- Students may take a maximum of five courses at other recognized institutions on letters of permission, provided that, by the end of their degree programmes they:

*i* complete at least 11 courses at Scarborough College;

*ii* complete five B/C level courses with a grade of at least C- at this University.

If students have received transfer credit on admission, the number of courses which they may complete on a letter of permission will be affected as follows:

| | Degree | Transfer credit on admission: 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| # of courses which may be taken on Letter of Permission | III Year | 5 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| | IV Year | 5 | 5 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | 0 |

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

No letter of permission will be granted to a student who has been suspended or who is on academic probation.

Students who wish to spend a year of full-time study at another university, for credit towards their University of Toronto degree, should apply for a Study Elsewhere Year.

**1 Types of Study Elsewhere Years**

There are basically two types of Study Elsewhere.

*a* Students may apply through the Study Elsewhere Committee to register at a host university and follow its courses for credit; these credits will then be translated into Scarborough College credits. These courses will appear on students' Scarborough College transcripts, but the grades assigned by the host university will not be recorded and will not be included in any grade point average.

*b* Students may elect to do Scarborough College supervised reading or independent study courses off-campus at a location which will enhance their study. These courses will appear on students' Scarborough College transcripts; grades will be recorded and included in grade point averaging.

*c* A combination of the above types is also possible, with some courses followed at a host university for credit transfer, and some Scarborough College supervised study courses taken while the student is on the host campus.

**2 Fees and Aid**

*a* Students taking courses for transfer credit (as in (1) (a) above) pay the appropriate fees at the host university and a fee of $100 to the University of Toronto in order to maintain registration at Scarborough College.

*b* Students taking Scarborough College supervised study courses elsewhere (as in (1)(b) above) pay regular Scarborough College fees.

*c* Students in a mixed programme (as in (1)(c) above) pay $20 for each full course (or equivalent) for which they register for credit transfer plus the regular fee for Scarborough College supervised study courses.

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

## Degrees

**3 Application**
Interested students may obtain an application for a Study Elsewhere Year from the Associate Chairman, Division of Humanities, or the Admissions/Liaison Counsellor. Approval for the proposed programme must be obtained from the supervisor of the student's specialist or major programme(s) before the application is submitted for the approval of the Study Elsewhere Committee. Completed applications should be submitted to the Associate Chairman, Division of Humanities, by April 1, for studies beginning in the Summer Session, and July 1, for studies beginning in the following Autumn Session.

**4 Regulations**
*a* A student must be in good standing to apply for a Study Elsewhere Year.
*b* A student must have completed at least eight courses, of which at least three must be in the student's programme;
*c* The proposed Study Elsewhere Year must be reviewed and approved by the discipline supervisor of the student's specialist or major programme(s) before the student is given final approval for his study elsewhere year;
*d* A student may be given credit for a maximum of five full-course equivalents on a Study Elsewhere Year;
*e* Any plan for a Study Elsewhere Year must be compatible with University regulations; that is, the student will complete his last year or last five full-course equivalents at the University of Toronto.

**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** Students may elect to receive their degree after having completed the requirements for a three-year degree or a four-year degree.
*a* Students who wish to graduate must notify the Office of the Registrar on a "Degree Request Form" by 15 February for graduation at Spring Convocation or by 15 July for graduation at Fall Convocation. Where a student submits the Degree Request 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. If the student's name is added a late fee of twenty-five dollars will be charged
*b* Students who have elected to graduate after having completed a three-year degree may still choose to complete the requirements of the four-year degree; completion of the four-year degree requirements will be noted on the student's transcript. (Diplomas indicate only completion of a "Bachelor of Arts" or "Bachelor of Science" degree. No distinction is made on diplomas between three- and four-year degrees.) Students who have received a three-year degree, and wish to receive certification of completion of a four-year degree, should notify the Office of the Registrar by means of a Degree Request Form.

**3** Degrees are conferred at University Convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held late in November or early in December. Students who have submitted the Degree Request Form will be mailed complete information about the time and arrangements for the Convocation.



## Academic Transcripts

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

**Contents**
The transcript records the following information.
Information to identify the student: full name, university student number, social insurance number, and date of birth.
Admission information: basis of admission (e.g. Ontario Grade XIII, 85.0%); and a list of any courses completed at other universities for which the student was granted advanced standing credit.
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 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 refused further registration;
*v* completion of degree and programme requirements, and date of conferral of the degree;
*vi* any academic honours awarded: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

**Ordering Copies**
Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee.
*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: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario, MIC1A4. 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.

# Access to Student Records

In order (a) to allow students as great a degree of access to their own academic records as is academically justifiable and administratively feasible, and in order (b) to safeguard students' rights to privacy of their academic records, the University of Toronto implemented on 1 July 1979 a "Policy on Access to Student Records Maintained by Undergraduate Academic Divisions of the University of Toronto." The implementation of this policy with respect to Scarborough College students is as follows. The full text of this policy is available at the Office of the Registrar.

**1 Student Record Information Deemed to be Public Information**

The following parts of students' personal and academic records are deemed to be public information and will be given freely to enquirers on request:

*a* whether a student is currently registered;
*b* the student's address and telephone number; and
*c* for graduates of the College - the degree and date of its conferral.

Where students do not want their address and telephone number released by the College or published by the Students' Administrative Council in its annual student directory, students should so notify both the Scarborough College Registrar's Office (in writing) and the Students' Administrative Council (12 Hart House Circle, St. George Campus, University of Toronto, telephone 978-4909).

**2 Access to Other Parts of the Student Record**

All other parts of students' records are considered confidential, and access will be granted only as follows:

*a* Access will be granted to students who wish to see their own records, as in (3) below.
*b* Access will be granted to members of the University staff who demonstrate to the Registrar that they require access in order to perform their duties; and
*c* Copies of student transcripts, and letters or oral reports based on other student record information, will be released on the written request of the student. (See "Transcripts" above for procedures for ordering copies of transcripts.)
*d* This information will otherwise be released only when required by law.

**3 Students' Access to their Own Records**

*a* Students may request personal access to the following parts of their own records:
*i* Official transcripts of their academic record (see "Transcripts" above for procedures for ordering copies of transcripts);
*ii* student records in computer files, except information dealing with students' applications for admission (particularly the secondary school principal's confidential recommendation); and
*iii* students' paper files, except for:
- information filed before 1 July 1979, when this policy was implemented. (Before this time, individuals who made entries in student files did so with the assurance that these entries would be confidential.);
- information relating to students' applications for admission (particularly the secondary school principal's recommendation); and
- medical information.

*b* Students who wish to inspect their academic records (as provided in (a) above) must make their request in writing to the Assistant Registrar. The Assistant Registrar will arrange individual appointments at a mutually convenient time within thirty days of the receipt of students' requests. At the appointed time, students may examine their records in the presence of the Assistant Registrar (or another designated member of the Registrar's Office staff).
*c* Students may request a copy of the material in their files (to which they have access), for a five dollar copying fee. (Students should note that some material in their files may yield only poor quality or even illegible photocopies.)



# Withdrawal

**Withdrawal from a Course**

Students may withdraw from courses up until the following deadlines:

| Course Duration | 1981 Summer Session | 1981-82 Winter Session |
|---|---|---|
| Year long ('Y', 'H') | 17 July | Feb 12, 1982 |
| 1st term ('F', 'A') | 5 June | Nov 6, 1981 |
| 2nd term ('S', 'B') | 24 July | Feb 26, 1982 |

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.
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.
Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the "Schedule of Fees" published each session. The amount of the fees adjustment is determined by the date upon which the "Registration Change Form" or other written notification is *received* by the Office of the Registrar.
Students who withdraw from courses will be given or mailed a receipted copy of their Registration Change form. Students should retain these copies until after they have received their "Statement of Results" for the particular session.

**Withdrawal from the Session**

Students who wish to withdraw from the College for a given session effect withdrawal by:
*i* withdrawing from all courses, in accordance with the procedures and deadlines above; and
*ii* completing the procedures outlined in (b) below.
Where a student withdraws from the College after completing a first term course, the student retains credit for that course (or retains 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, registration in the incomplete course will be shown on the academic transcript along with (presumably) a failing grade.
In addition to effecting withdrawal from courses, students must complete the following procedures and submit a "Withdrawal Clearance Form" to evidence their completion:
*i* Surrender any Bookstore charge card and arrange payment of any outstanding account;
*ii* Return any borrowed books to the Library, pay any outstanding Library Fines, and surrender their Library Card;
*iii* Return any equipment borrowed from the College Recreation Centre and surrender any Recreation Centre locker;
*iv* Surrender any College locker and return (perhaps for a partial refund) any College parking permit;
*v* Surrender any laboratory locker and equipment; and
*vi* Surrender their student card and (for students who received them) their identification card.
Students who wish to withdraw from the College should speak with a counsellor in the Student Services Office. The counsellor will: advise students concerning the academic consequences of their withdrawal (deadline dates, eligibility for re-admission, etc.); advise students concerning any fees adjustments; and advise appropriate students with respect to any required repayment of Ontario Student Assistance. (These procedures are somewhat simplified for part-time students.)
*c* Where students withdraw from the College, and withdraw from all of their courses in the Session, no record of registration and withdrawal is shown on their transcripts. (This policy became effective beginning with the 1978 Summer Session.)

## Regulations Governing Special Students

"Special Students" are students registered at Scarborough College for degree courses: (a)who are not proceeding towards a University of Toronto degree; or (b) who have been admitted on an interim basis, and who must complete certain conditions before admission as regular degree students.
Except for regulations concerning degree requirements, and regulations where Special Students are specifically exempted, all regulations apply equally to special students and degree students. Where students have been admitted on an interim basis as special students, the conditions of their admission supercede the normal regulations governing academic status.

## Grading Practices Policy

**1** As early as possible in each course (and no later than the last date to add that course) the instructor will make available to the class the methods by which student performance will be evaluated and the relative weight of these methods.
**2** After the methods of evaluation have been made known, the instructor may not change them or 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 evaluation element, i.e. on more than one examination, essay, or other similar piece of work. Normally, no one evaluation element (examination, essay, etc.) will be worth more than two-thirds of the final grade. Exempt from this requirement are advanced seminar courses or supervised research or supervised reading courses; in such courses, more than two-thirds of the final grade may be based on a thesis, a research essay or project, or a comprehensive examination.
**4** Normally at least one-third of the final grade in a course will be based on supervised examinations.

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

*b* In B-level and C-level courses, at least one-third of the final grade will normally be based upon a formal examination(s) (as in (a) above). Alternatively, a supervised term test(s), valued at at least one-third of the final grade, may be substituted for the formal final examination, upon the annual request of the instructor and approval of the appropriate Divisional Chairman.

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

he relative value of each part of a written nination will be indicated on the examina- paper.
nstructors will make available to students mentary on assessed term work and will e available time for discussion of such term k.
Grades, as an expression of the instructor's judgement of each student's overall perfor- ce in a course, will not be determined by a em of quotas.
Grades, submitted by the instructor in each rse, are subject to review by the marks review mittee of the appropriate Division and by the rborough College Marks Review Sub- mittee.
For procedures for appeals concerning des and grading practices, see below "Pro- ures for Requesting Special Consideration, tions, and Appeals".

## Procedures for Requesting Special Consideration, Petitions and Appeals

**1 Petitions for Exceptions to the Academic Regulations**

*a* Students may request that an exception to any academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough 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, that is, the reason(s) why the student believes an exception to the rules is appropriate in this particular 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 ask 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 debility caused by the illness; and
*iv* to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her 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 petition.

*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 (6) 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* **Special Consideration Before the End of Term**

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

*ii* **Special Consideration at the End of Term**

Where students' medical problems or other extenuating circumstances occur *towards the end of the term*, and where they must request extensions of time to submit term assignments or permission to write make-up term examinations *after the "last day for submission of term work"* (shown in the "Academic Calendar" section of this *Calendar*), students must submit a formal petition to the Sub-committee on Standing. See (1) above for information about the petition procedure. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

*iii* Where students wish to appeal the decision of their instructor with respect to a request for special consideration, they must, as soon as possible, speak with or write to the Chairman of the Division offering the course. Where students wish to appeal any decision of the Sub-committee on Standing, they may enter an appeal to the Sub-committee on Academic Appeals - see (6) "Academic Appeals", below.

*b Final Examinations*

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

*ii* Where students believe that their performance on a final examination may be adversely affected because of illness or other extenuating circumstances, students should (if possible) attempt the examination and then submit a petition to request special consideration.

*iii* S[illegible]tion about the petiti[illegible]ds must submit their p[illegible] possible and (under norm[illegible] later than the last day o[illegible]ation period.

**3 Req[illegible] of Marks in a Course**

Where [illegible] an error has been made in [illegible] their final grade in a course, [illegible] of a mark on any examination [illegible]signment, they may request [illegible] calculations according to the follo[illegible]lines.

*a Term [illegible]*

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

*b Final Examinations*

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

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

*ii* If students believe that an error has been made in the calculation of their examination mark, they may submit, through the Office of the Registrar, a request for a recheck of the calculation. This request must be entered within six months of the relevant examination period. If an error is discovered and the mark is changed, the copying fee will be refunded.

*c Final Grade*

Where students believe that an error has occurred in the calculation of their final grade, they may do the following. After the issue of their "Statement of Results" but within six months of the relevant examination period, students may submit, through the Office of the Registrar, a request for a recheck 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 examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

**4 Petition of Marks in a Course**

Where students believe that their work has been graded unfairly, they may petition their grade as follows.

*a Term Work*

*i* Where students wish to petition their grade on a term examination, an essay or another term assignment, they must speak with the course instructor as soon as possible, and certainly before the end of term.

*ii* Where students wish to appeal the decision of an instructor with respect to the grading of term work, they may speak with or write to the Chairman of the Division offering the course.

*iii* Where students wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor has submitted grades for the course), a formal petition to the Sub-committee on Standing may be entered. See (1) above for information about the petition procedure.

*b Final Examinations*

Where students wish to look into the possibility of an appeal of their final examination mark, they may do the following.

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

*ii* After students have seen the photocopy of their final examination but within six months of the relevant examination period, they may submit a petition to the Sub-committee on Standing to request re-reading of their final examination. The Sub-committee will authorize a re-reading only where a student:

-has articulated clear grounds for reconsideration of some part(s) of the examination, which grounds *address the substance of the answer* in relation to the mark given it, or otherwise identify the nature of the alleged misevaluation;

-has demonstrated that the alleged misevaluation is of a *substantial nature*: that is, that, in an objective answer, a correct response has been counted as incorrect; or that, in a subjective or essay answer, the response has been underevaluated substantially. If an error is discovered and the mark is changed, the copying fee will be refunded.

*c* Students should note that, where the Sub-committee on Standing authorizes re-reading of any examination or item of term 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 Divisions to have examinations or term work re-read by the course instructor, unless some convincing argument is put forward by the student that the work be re-read by another member of the faculty.

*d Note Concerning Failed Courses*

Instructors are required to re-read the final examination and to recheck the calculation of term and final marks before submitting a failing grade ('E' or 'F').

**5 Petitions Concerning Grading Practices in a Course**

The rules governing the determination of grades in a course (grading practices) are shown above. Where students believe that they have been disadvantaged by violations of these grading practices, they may proceed as follows:

*a Grading Practices During the Term*

*i* Where students believe that an instructor has violated any rule of the College's grading practices during the term, they are expected to discuss this complaint with the instructor at once.

*ii* If this discussion does not yield a resolution to the problem that is satisfactory, students may appeal the decision of the instructor to the Chairman of the Division offering the course.

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

*b Grading Practices After the End of Term*

*i* Where students believe that an instructor has violated any rule of the College's grading practices, and this alleged violation comes to light only after the end of term, students may submit a petition to the Sub-committee on Standing.

*ii* If the petition does not yield a resolution to the problem that is satisfactory, students may appeal the decision on the petition (in the usual manner) by means of an appeal to the College Sub-committee on Academic Appeals. (See (6) below.)

**6 Academic Appeals: the Scarborough College Sub-committee on Academic Appeals**

*a* Students may appeal any decision of the Sub-committee on Standing on a petition by means of an appeal to the Scarborough College Sub-committee on Academic Appeals.

*b* An Appeal to the Sub-committee on Academic Appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Standing. 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.

**7 The University of Toronto Academic Appeals Board**

*a* Students may appeal any decision of the Scarborough College Sub-committee on Academic Appeals to the University of Toronto Academic Appeals Board.

*b* Such appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Appeals. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Appeals Board.

*c* Students are entitled, if they wish, to a hearing before the Appeals Board and are entitled to representation by counsel.

*d* Full information may be obtained from the Secretary to the Appeals Board, Office of the Governing Council Secretariat, Room 106, Simcoe Hall, St. George Campus, telephone 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, a University Ombudsman has been appointed to investigate grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University - student, faculty or administrative staff. He assists in any way he can in resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, he has access to all relevant files and information, and to all appropriate University officials.

The Ombudsman also provides information to members of the University about their rights and responsibilities, and the procedures to follow in order to pursue whatever business or complaint they may have.

All matters dealt with by the Ombudsman are handled in a strictly confidential manner unless the individual involved approves otherwise. The Ombudsman is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council.

In setting up the Ombudsman's Office, a special effort has been made to ensure that its services are readily accessible to all members of the University. The office is located at 16 Hart House Circle, just south of the SAC building. Members of the University at Scarborough Campus may arrange to meet with the Ombudsman at the Scarborough Campus or at the St. George Campus, whichever is more convenient. Requests for assistance are dealt with as quickly as possible.

For information, advice, or assistance, contact the Office of the University Ombudsman, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-4874).

# 3

# General Information

## 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 idea or expression of an idea of another;

**c** knowingly to submit for credit in any course or programme of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has 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 purported statement of fact or reference to a source which has been concocted;

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

**f** to remove books or other library material from a University library without proper authorization, to wilfully mutilate library material or misplace it, or in any other way wilfully 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 for 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 registered at the time the offence was committed;
**f** Suspension from the University for such period as may be determined by the Tribunal; or
**g** Expulsion from the University.

**Reporting**
If the Disciplinary Tribunal so recommends, persons convicted of academic offences under the Code of Behaviour may have their names included in a report by the Provost to the Academic Affairs Committee of the University.

**Discipline: Non-Academic Matters**
Student discipline for offences not covered by the Code of Behaviour on Academic Matters is vested, in the case of matters considered to be of University-wide concern, in the Caput. The Caput is composed of the heads of the Colleges and Faculties, the Warden of Hart House, and, in a non-voting capacity, the President of the Students' Administrative Council.
Scarborough College Council has disciplinary jurisdiction over the conduct of all students registered in the College on all matters of local or internal concern to the College. Jurisdiction over the conduct of students while in residence rests with the Dean of Students in Residence, in the first instance, and ultimately with the Principal of the College.
Where the appropriate body or officer exercising disciplinary jurisdiction has found that a student of the University has engaged in conduct prejudicial to the interests of the University, the Caput may, at its discretion, suspend or expel such student from the academic privileges of the University. Every decision of the Caput involving the expulsion of a student from the University requires confirmation of the Governing Council.
The roles of the Caput, Scarborough College Council, the Dean of Students in Residence and the Principal, as described above, are contingent on the understanding that offences or actions or claims within the jurisdiction of criminal and civil courts will be referred where appropriate to those courts and will only be reviewed by the Caput where the implications to the University are considered sufficiently important to warrant such review.
Enquiries should be directed to: Office of the Vice-President, Personnel and Student Affairs, Room 112, Simcoe Hall, University of Toronto (Telephone: 978-2196).

# Appendix: Non-Credit Courses in Writing Skills

Students who begin their studies at Scarborough College in the 1980 Summer Session or thereafter will be required to complete the College's English Proficiency Requirement (see page 16 of this Calendar). The following non-credit courses are intended primarily for students who fail or do poorly on the English Proficiency Test. They are open, however, to all students who wish to improve their writing skills.
ESLA01Y (Basic Writing Skills) and ESLB01F/S (Writing Skills) are intended for students for whom English is a second language. They are offered through the University of Toronto School of Continuing Studies.
EWSA01Y (Basic Writing Skills) and EWSB01F/S (The University Essay) are intended for students whose first language is English.
*A fee, to be announced, may be required for enrolment in these courses.*
These courses do *not* count for credit towards the degree requirements. Note, however, that students who fail the English Proficiency Test may meet the Proficiency Requirement by passing the appropriate *twenty-week* course.
Further information about these courses may be obtained from the Writing Laboratory (S-303F; phone: 284-3369). Timetable information and registration forms may be obtained from the Registrar's Office (S-416B) or Student Services (S-302).

**ESLA01Y** Basic Writing Skills
*Coordinator: M. Tyacke (School of Continuing Studies)*
A non-credit course for students whose native language is not English. The aim of the course is to improve the student's ability to construct grammatically sophisticated sentences and to incorporate them into university level discourse.
The primary focus of this course is on writing a variety of grammatically correct sentences and on using them to develop coherent paragraphs which contain clearly defined topic sentences. Punctuation and word choice are also an important part of the course. Written work will be done in class time. Teacher-student consultations will be built into the programme to assure individual help.
Teaching methods include: lectures, discussion, group work, workbook exercises and written assignments.
The textbook is Donald, *Writing Clear Paragraphs*, Prentice Hall.
Session: Winter Day, perhaps Winter Evening and Summer (20 weeks)

**ESLB01F/S** Writing Skills
*Coordinator: M. Tyacke (School of Continuing Studies)*
A non-credit course for students whose native language is not English. The aim of the course is to increase the student's ability to organize and develop an expository essay.
The course will concentrate on teaching the student to develop a thesis statement for an essay, to organize material in outline form and to write a coherent essay from the outline paying attention to details like the use of transitions and connectives. Sentence structure and variety will be discussed as necessary. Written assignments will be done in class time. Teacher-student consultations will be built into the programme to assure individual help. This course is not recommended for students who have problems with basic grammar.
Teaching methods include: lectures, discussion, group work, workbook exercises, and written assignments.
The textbook is Adams, *Think, Read, React, Plan, Write, Re-write*, Holt.
Session: Winter Day, perhaps Winter Evening and Summer (10 weeks)

**EWSA01Y** Basic Writing Skills
*Coordinator: A. Fisher*
A non-credit course for students whose native language is English.
The aim of the course is to help students learn to construct syntactically clear and correct sentences and to develop a prose style suitable for university level work. The primary focus will be on the sentence level: grammar, punctuation, diction, usage and style. The organization and rhetorical development of the paragraph and of the essay as a whole will be considered as well.
Teaching methods include: lectures, discussions and workbook exercises.
Students will be evaluated on the basis of short weekly essays, usually written in class.
Session: Summer Evening, Summer Day, Winter Day, Winter Evening (20 weeks)

**EWSB01F/S** The University Essay
*Coordinator: A. Fisher*
A non-credit course for students whose native language is English.

The aim of the course is to help students learn to deal with the organization and rhetorical development of the university essay. The primary focus will be on the formulation of a thesis, the organization and presentation of ideas, and the development of paragraphs. Research methods, note-taking, incorporating quotations into essays, and so on will also be dealt with. Report writing may be covered briefly, depending on class needs. Although the sentence level (style, the rhetorically effective sentence, etc.) will be considered, the course is not intended for students who have basic problems with syntax or grammar.

Teaching methods will include lectures and discussion.

Students will be evaluated on the basis of short weekly essays, usually written in class.
Session: Summer Evening, Summer Day, Winter Day, Winter Evening (10 weeks)

# 4

# Programmes of Study and Course Descriptions

## Course Key

**The Course Code**

**1** *The Discipline Abbreviation*
The first three letters of the course code indicate, in an abbreviated form, the discipline or subject area of the course.
ANTA01Y "ANT" indicates a course in Anthropology
CHMB05Y "CHM" indicates a course in Chemistry
PHLC87S "PHL" indicates a course in Philosophy
Joint Courses. The first letter of the course code of a course offered jointly by two disciplines is "J" followed by the first letter of the two disciplines concerned. For example:
JCEB72S indicates a course offered jointly by Commerce and Economics.

**2** *The Course Level*
The fourth letter of the course code indicates the level of the course.
A level courses Introductory or elementary courses
B level courses Intermediate level courses
C level courses Advanced courses

**3** *The Course Number*
The fifth and sixth letters of the course code are simply course numbers. In most disciplines, these numbers have no particular significance, except to identify the course in a shorthand form. In some disciplines, however, they are significant - for example in History and Economics. The introductory material at the beginning of the course descriptions in any discipline points out any special significance given to course numbering.

**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:

| *Final Letter* | *Credit Value* | *Winter Session* | *Summer Session* |
|---|---|---|---|
| Y | Full Course | Sept. - May | May - August |
| F | Half Course | Sept. - Dec. | May - June |
| S | Half Course | Jan. - May | July - August |
| H | Half Course | Sept. - May | May - August |
| A | Full Course | Sept. - Dec. | May - June |
| B | Full Course | Jan. - May | July - August |

Hence, ANTA01Y is an introductory course in Anthropology taught throughout the session and worth a full course credit. PHLC87S is an

advanced course in Philosophy taught only in the second term and worth one-half a course credit.
*Note:* Courses marked F/S 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 enrol in the course being described.
**2** *Prerequisites*
A student must have standing in the prerequisite course before enrolling in the course being described. Prerequisites 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 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 he must enrol in the corequisite course at the same time as he takes the course being described. Instructors are permitted to waive corequisites if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting its corequisite, or if a student withdraws from the corequired course without obtaining specific waiver of the corequisite, the student may be withdrawn from the course at any time during the term.
**4** *Exclusions, Prerequisites and Corequisites in Parentheses*
Some exclusions and some prerequisite and corequisite courses are enclosed in parentheses. This indicates that the excluded, prerequisite or corequisite course is no longer in the College's curriculum. A student who has standing in an excluded course contained in parentheses may not take the course being described. A student who has completed, in a previous session, a prerequisite or corequisite course contained in parentheses may make use of the course to meet the requirements of the course being described.

**Supervised Reading, Supervised Research and Independent Study Courses**

**1** *Supervised Reading Courses*
Students in reading courses usually work under the direction of a faculty member with whom they meet periodically to discuss their reading, their progress, etc. They may also meet occasionally with other students doing similar reading. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering supervised reading courses.
**2** *Supervised Research Courses*
Students in supervised research courses usually work under the direction of a faculty member with whom they meet periodically or in whose laboratory they work. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering supervised research courses.
**3** *Independent Study Courses*
Students in independent study courses usually work under the direction of a faculty member with whom they meet periodically. A topic for independent study is normally chosen after consultation between student and staff members. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering independent study courses.

# Programmes

The following Programmes are offered at Scarborough College.
In the event that the number of qualified applicants exceeds the teaching or other resources available, enrolment in some of these Programmes may have to be limited. In the event of underenrolment, some of these Programmes may have to be withdrawn.

*Specialist Programmes*
Anthropology*
Astronomy & Physics
Biology
Chemistry
Chemistry & Biochemistry
Chemical Physics
Commerce & Economics
Computer Science.
Computer Science for Data Management
Cooperative Programme in Administration
Drama
Economics
Economics & Political Science
English*
Fine Art*
Fine Art History*
Fine Art Studio
French
Geography
German Area Studies
History*
History of Ideas
Humanities
Language & Literature
Linguistics
Mathematics
Medieval Civilization
Modern Languages
Neurosciences
Philosophy*
Physics
Political Science
Psychology*
Renaissance Studies
~~Russian & Related Studies~~
Sociology*
Terrain and Environmental Earth Sciences

*Major Programmes*
Anthropology*
Astronomy & Physics
Biochemistry
Biology
Chemistry
Classical Civilization
Classical Studies
Commerce*
Computer Science
Drama
Economics*
English*
Fine Art History*
Fine Art Studio*
French Language*
French Language & Literature*
Geography
German Language
German Language & Literature
History*
Italian Language
Italian Language & Literature
Linguistics
Mathematics
Medieval Civilization
Music
Neurosciences
Philosophy*
Physics
Political Science*
Psychology*
Quaternary Studies
Renaissance Studies
Russian Language & Literature
Sociology*
Spanish Language
Spanish Language & Literature

*College Programmes*
Canadian Studies
History of Ideas
Humanities
Myth & Religion
Russian & Related Studies

* These are Programmes which the College plans to make available to students who are able to study only in the evening.

# Anthropology

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 sub-fields: Social-Cultural Anthropology, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three only, with occasional offerings in the last. (For a full list of courses in Linguistics, see the entry for Linguistics in this Calendar.)

**Specialist Programme in Anthropology**
*Supervisor:* H.B. Schroeder
The Specialist Programme in Anthropology is intended to provide the professionally-oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure of sufficient flexibility to follow their intellectual interests into the diverse yet holistic perspective on the human phenomena provided by Anthropology.

All students are required to consult with the Supervisor concerning the selection of a course sequence appropriate to their interests and objectives.

The Programme requires completion of twelve full-course equivalents, no less than ten of which will be in Anthropology. Students must complete at least eight full-course equivalents in disciplines other than Anthropology within the four-year degree programme. The courses within the Programme are to be selected as follows:

1. ANTA01Y Introduction to Anthropology
2. Two courses from among the following:
   - ANTB15Y Biological Anthropology
   - ANTB20Y Introduction to Social Organization
   - ANTB26Y Introduction to Prehistoric Archaeology
3. Six full-course equivalents from the remaining B- and C-level courses in Anthropology.
4. One full-course equivalent in supervised reading and research
   - ANTC03F
   - ANTC04S
   - ANTC13F
   - ANTC14S
5. At least 2 full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

**Major Programme in Anthropology**
*Supervisor:* H.B. Schroeder
The Major Programme in Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest by taking advantage of Anthropology's unique global, chronological and biological perspective on humankind.

The Programme requires completion of six full-course equivalents in Anthropology including:

1. ANTA01Y Introduction to Anthropology
2. One course from among the following:
   - ANTB15Y Biological Anthropology
   - ANTB20Y Introduction to Social Organization
   - ANTB26Y Introduction to Prehistoric Archaeology
3. Four additional full-course equivalents from B- or C- level courses in Anthropology.

Students are required to consult with the Supervisor regarding course selections and requirements and are strongly urged to take at least seven full-course equivalents in disciplines other than Anthropology within the three-year degree programme.

**ANTA01Y Introduction to Anthropology**
An introduction to the fields 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
*E. Molto, M. Lambek*

**ANTA03Y Cultures in the Modern World**
A course 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.

This 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 evils, gossip and witchcraft. *Mobility:* the organizing of crews for fishing, raiding and exploration; leaders and followers. *Stability:* community patterns, houses and environments, temples. *Expressiveness:* variations in humour, origin myths, oral and mass media; drama. *Exchanges:* gifts, money and credit, reputation, cursing, secrecy, partners & friends. *Process:* infancy, childhood, being adult and aged; universal relations between men and women. *Power:* chiefs, kings, priests, shamans, sorcerers. *Reaching:* disease and curing, theories of the universe, deities, saviours and redeemers: revitalization movements. There will be lectures and discussions; slides, motion pictures and demonstrations.
Exclusion: ANTA01
Session: Winter Day
*T. McFeat (and Staff)*

**ANTB02Y Anthropological Study of Religion**
A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights and obligations arising out of human dependence on such beings; and of magic, curing, witchcraft and sorcery.

The course is concerned with the anthropological study of supernatural beliefs in small scale non-Western societies. Topics covered (time permitting) will be: the origin and function of religion; symbolism; myth; ritual; shamanism; magic; witchcraft; divination; death ghosts; ancestor cults; and dynamics in religion. Seminar; one two-hour session per week.
Prerequisite: ANTA01
Session: Winter Day
*C. Hopen*

**ANTB05S Social Anthropological Study of Africa**
A review of certain cardinal social and cultural background features of the continent, followed by a more intensive study of comparative religion. Hopefully, guest lecturers will help round out the perspective.

This will be a study of the major institutions of African society, their ecology, economic, religious and domestic organizations. Seminar: one two-hour session.
Prerequisite: ANTA01
Session: Winter Day
*C. Hopen*

**ANTB11F Human Behaviour in the Old Stone Age**
The development of art, technology, religion, and lifeways of hunters and gatherers living from two million to ten thousand years ago. Our intellect, interests, emotions, and basic social life are all in part evolutionary products of the success of hunting adaptations over this span of time. Issues to be considered include the nature of prehistoric technological innovation and social change and the reconstruction of ancient ideologies and ecological systems.
Prerequisite: ANTA01 (ANTB26 is recommended)
Session: Winter Day, Summer Day
*G. Kukan*

## Specialist Programme in Canadian Studies

This programme is specifically intended to provide an academic framework within which a student may draw upon the many course offerings which relate to Canadian affairs within the diverse disciplines of the Scarborough College curriculum. Specialist studies operate on two levels: (1) a theoretical understanding of the range and complexity of Canada's social, cultural and natural resources, and (2) practical applications of various research methods to problems of a distinctively Canadian nature.

Students seeking Specialist standing in a 20 course programme must select not less than 13 course credits according to the following scheme:

First year

1. French proficiency requirement: FREB06Y; or FREA06Y followed by FREB06Y.

2. At least three full course credits from the following:

| | | |
|---|---|---|
| | ANTB16S | Cultures of Modern Canada |
| | ENGB07Y | Canadian Literature in English |
| either: | FARB60Y | The Arts in Canada: 1670 to the present |
| or: | FARB61Y | The Canadian Landscape |
| | HISB04Y | Introduction to Canadian History |
| | POLB50Y | Canadian Government and Politics |

Recommended: Further basic courses in the disciplines in which the student plans to carry on advanced work.

Succeeding Years

3. At least one of:

| | |
|---|---|
| FREB36F/S | French-Canadian Novel to 1945 |
| FREB37F/S | French-Canadian Novel since 1945 |
| FREB38F/S | Theatre of French Canada |
| FREB43F/S | French Language in Canada |
| HISB42Y | French Canada: Origins to Present |

4. Six additional full course equivalents, approved by the supervisor of studies, in advance, from the following list. The student should plan to take not fewer than three full course equivalents from one group, not fewer than two full course equivalents from a second group, and at least one full course equivalent from a remaining group.

5. At least one additional full course equivalent at the C-level with Canadian content in a discipline in which the student has done the required preparatory work at the B-level. This may include supervised reading courses, as noted below.

Final Year

6. During the final year of study, the Specialist candidate's programme must include the following two half courses:

| | |
|---|---|
| CASC01F | Interdisciplinary Seminar |
| CASC02S | Independent Study |

The content of each course will depend upon the needs and special interests of current Specialist candidates and will be determined anew each year. The Interdisciplinary Seminar will normally require as prerequisites a minimum of three courses at the B-level in one discipline relevant to the subject of the Seminar.

Courses with Canadian Content

An asterisk indicates a course for which there is a prerequisite or corequisite. Not all B- and C-level courses are offered every year. Students should consult the discipline entries in the Calendar for specific information in these regards.

Group 1: The Land

Courses dealing with the Canadian physical environment:

| | | |
|---|---|---|
| * | GGRB01Y | Geography of Resources |
| * | GGRC34F | Landscape Interpretation |



Group 2: Cultural and Historical Roots

Native peoples before, or apart from, European contact:

| | | |
|---|---|---|
| | NSCA03Y | Ice Ages and Human Ecology |
| * | ANTC28F/S | The Prehistoric Archaeology of Canada |
| * | ANTB21Y | North American Background to Canadian Native Peoples |
| * | ANTB27Y | Archaeological Method and Theory |

Modern cultures, both native and ethnic:

| | | |
|---|---|---|
| | ANTB16S | The Cultures of Modern Canada |
| * | SOCB20Y | Ethnic and Race Relations |
| * | SOCC24F/S | Changing Family Life in Canada |
| | LINC12F | Dialectology |

Historical events following European immigration:

| | | |
|---|---|---|
| | HISB04Y | Introduction to Canadian History |
| * | HISB42Y | French Canada: Origins to the Present |
| * | HISB43Y | Ontario History: The 19th Century |
| * | HISB44F/S | Canadian Religious Traditions |
| * | HISB46Y | Atlantic Canada |
| * | HISB47Y | The Canadian Left, 1867 to the Present |
| * | HISC41F/S | Old Huronia |
| * | HISC42F/S | Church-State Relations in Canada |
| * | HISC43F/S | Selected Topics in Canadian Religious History |
| * | HISC45Y | Canadian Social, Political and Historical Thought |
| * | ECOB81Y | North American Economic History |
| * | ANTB52Y | Field Methods in Historical Archaeology |

Group 3: Modern Urban Society

The nature of Canadian cities:

| | | |
|---|---|---|
| * | GGRB05Y | Urban Geography |
| * | GGRC04F/S | Urbanization and Residential Geography |
| * | GGRC31F/S | Development and Planning of Metropolitan Regions |
| | POLB88Y | Urban Politics |
| * | SOCB13Y | Canadian Society |
| * | SOCB15Y | Mass Media and Communications |
| * | SOCB23Y | Population |

Problems generated by urbanization in Canada:

| | | |
|---|---|---|
| * | ECOB45F/S | Poverty and Income Distribution |
| * | GGRB17Y | Rural Geography |
| * | SOCC27F/S | Social Class in Canadian Society |

The political/economic structure of urban Canada:

| | | |
|---|---|---|
| | ECOA01Y | Introduction to Economics |
| * | ECOB07Y | Macroeconomic Theory and Policy |
| * | ECOB31F/S | Economics of the Public Sector: Taxation |
| * | ECOB32F/S | Economics of the Public Sector: Expenditures |
| * | ECOB35F/S | Public Decision Making |
| * | ECOB37F/S | Law and Economics |
| * | ECOB62F/S | International Economics: Trade Theory |
| | POLB50Y | Canadian Government and Politics |
| * | POLB51F/S | Government and Politics in Ontario |
| * | POLB52F/S | Canadian Constitutional Law |
| | POLB53Y | Public Policies in Canada |
| * | POLB54F/S | Intergovernmental Relations |
| | POLB60Y | Public Administration |
| * | POLB81F/S | Canadian Foreign Policy |
| * | POLC51F/S | Topics in Canadian Government |
| * | POLC61F/S | Policy Development |

HUMB14Y L30 M7-9E
JLPB55F T2-4 R3
LINB11Y W4 F2-4
LINB15S T2-4 R3
LINB25F L01 to L30 T7-10E
MATB70S L01 M12 F10-12
MATC51F L01 M10-12 F4
MATC56S L01 M10-12 F4
MATC60F L01 M3 R3-5
POLB81F T2-4
POLC60F T9-11
POLC61S T9-11
POLC71Y T11-1
PSYB52S Cancel L01, add L30, M7-10E
RUSA01Y to RUSA01F, R3-5
SOCB08S L30 W7-10E
SOCC28F L30 M7-10E
SOCC30S R1-3
SPAA01Y L01 M2
T0001 T11-1
T0002 T2-4
SPAA01Y L02 W4
T0201 R1-3
T0202 R3-5

CHANGES IN TERM

ECOC07F, from F to S, F9-11

GGRC34F, changed from winter term to summer term

PHYC06F, changed to PHYC06S, L01, T4, F11

SUMMER SESSION CHANGES

Course Cancellation

GGRA05Y

Courses Added

GGRC34F TR7-10E
GGRC20S TR7-10E

Timetable Changes

PSYB09S, add P0001 T9-11
P0002 R9-11

CSCA56H MW7-9

MISCELLANEOUS CORRIGENDA

Page 57 under Specialist Programme in Chemistry and Biochemistry, item 2, should be
- CHMC01Y or CHMC02Y

Page 4, Academic Calendar, change 'Canada Day' to 'Dominion Day'

Page 107, FREB17F/S - The corequisite for this course applies to SLI only

SCARBOROUGH COLLEGE
University of Toronto

May 1981

CORRIGENDA TO THE 1981/82 SCARBOROUGH COLLEGE CALENDAR: NO. 1

CHANGES IN DEGREE REQUIREMENTS

Terms of Probation

Page 12, item 3 should be changed as follows:

A student who is on probation may carry a course load of no more than 5.0 in any one term of the Winter Session or 2.0 in any one term of the Summer Session. Under these circumstances, course load is determined by assigning the following values to courses:

| Final letter of course code | 1st term value | 2nd term value |
|---|---|---|
| A | 2.0 | 0.0 |
| B | 0.0 | 2.0 |
| F | 1.0 | 0.0 |
| H | 0.5 | 0.5 |
| S | 0.0 | 1.0 |
| Y | 1.0 | 1.0 |

A-level Courses

Scarborough College Council has rescinded the following regulation: (item 1c under Course Selection)

Students may register for credit in no more than seven A-level courses.

As of Summer 1981 and thereafter all A-level courses will be included in grade point averaging unless specifically designated as extra courses by the Sub-committee on Standing (e.g. in the case of students registering in courses in which they already have standing in order to meet a grade requirement).

Determination of Academic Status for Students Admitted on Condition

Page 19, item (a) should read

The standing of students admitted on condition will be assessed at the end of the session in which such students complete their second course (full course or equivalent).

Changes in Degree Requirements
Conferral of Degrees

Page 22, item 2(a), change last sentence to read "If the student's name is added , a late fee of twenty-five dollars will be charged."

Programme Regulations: Applicable to pre-1980 Students

Page 16, item 2 should read

Where students had passed fewer than five courses as of the beginning of the 1979/80 Winter Session and wish to complete a programme, they will be expected to complete the programme requirements set out in the 1980/81 Calendar or in subsequent Calendars.

CHANGES IN THE ADMISSION REQUIREMENTS

Page 8, item 4, please add the following NOTE:

It is understood that applicants who present a subject from Group 3 must al

**ANTB12S** The Rise of Civilization
Examination of the two major cultural developments of the past ten thousand years out of which emerged modern human societies: the agricultural and urban transformations. The course 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: ANTA01 (ANTB26 is recommended)
Session: Winter Day, Summer Day
*H.B. Schroeder*

**ANTB15Y** Biological Anthropology
A survey of the human place in nature: origin (Fall) and ongoing evolution (Spring). Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologist.

Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behaviour of non-human primates, taxonomy and classification, paleontological principles and human origins.
Prerequisite: ANTA01 or ANTB14 or Permission of instructor
Session: Winter Day
*F.D. Burton*

**ANTB16S** The Cultures of Modern Canada
A study of contemporary cultures in Canada. Indigenous groups (Indian-Metis-Eskimo) 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 sub-cultures in a national political and economic context. A range of cultural and regional groups will be considered to illustrate the adaptation of these groups to the local contemporary social setting and to the wider contemporary Canadian setting. Case studies will include agriculturally-based religious communities, selected urban ethnic groups, French Canadian townsmen, Newfoundland outport communities, and Native Canadians. One two-hour lecture and one one-hour discussion per week.
Session: Winter Day
*S. Hilton*

**ANTB17F** Complex Societies
A study of peasant and agrarian societies, in which special attention will be paid to problems of detribalization, urbanization, and personal adjustment, as well as to adaptation to urban situations and social control. The study will draw upon Third World economic and social adjustments to new situations.
Prerequisite: ANTA01
Session: Winter Day

**ANTB20Y** Introduction to Social Organization
A consideration of variations in human social structure, focusing mainly on kinship organized societies."Kinship is to Anthropology what logic is to Philosophy or the nude is to Art; it is the basic discipline of the subject." (Fox).

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.
Prerequisite: ANTA01
Session: Winter Evening
*M. Lambek*

**ANTB21Y** North American Background to Canadian Native Peoples
North American Native Peoples formed a mosaic of connected yet distinct cultures ranging in complexity from Subarctic hunters to Northwest Coast fishermen and Plains warriors; from Pueblo farmers and Iroquoian confederacies to the urban dwellers of ancient Tenochtitlan. Early contacts with Europeans destroyed the urbanites and some hunters while fundamentally altering others. Later contacts witnessed displacements, confinements, and erosion of traditional culture and widespread poverty.

Twentieth century Canada marks the regrowth 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 a living literature. The pan-Indian movement, and the emergence of the Inuit, Dene, Metis, and other ethnic groups, together disclose both a new identity and a new mosaic.

Classes and discussion.
Prerequisite: ANTA01
Session: Winter Evening
*S. Hilton and T. McFeat*

**ANTB23Y** Comparative Mythology
The nature of myth 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.

Consideration of various theories of myth and the part it plays in society. The issues of the relationship between myth and other narrative forms, between myth and ritual, myth and thought, 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.
Session: Winter Day
*M. Lambek*

**ANTB26Y** Introduction to Prehistoric Archaeology
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.
Prerequisite: ANTA01
Session: Winter Day
*H.B. Schroeder*

Cancelled.

**ANTB30Y** Language and Culture
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 mediator and interpreter of culture, and the relevance of linguistics data to the study of history and prehistory. One two-hour lecture session per week.
Session: Winter Day

**ANTB32F** Political Anthropology
A general survey of the role of political systems in a largely "development" framework.
Prerequisite: ANTAO1
Session: Winter Day

**ANTB37S** Prehistory of Mexico and Mesoamerica
An attempt to understand 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. Students will become familiar with the art, crafts and architectural styles of the best known sites which typify the civilizations of this region.
Prerequisite: ANTA01
Session: Winter Day
*M. Latta*

**ANTB38F** Prehistory of North America North of Mexico
A course complementing ANTB37 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 divergence of North American Indian cultures from a late Palaeolithic hunting base. We will give particular attention to the civilizations of the eastern and south-western United States. At the end of the course a field trip to Ohio will permit students to experience the well-known mounds and artifacts of the Hopewill culture.
Prerequisite: ANTA01
Session: Winter Day
*M. Latta*

**ANTB40Y** Anthropological Demography
An examination of the biological, demographic, ecological and social-cultural determinants of human and non-human population structure and the interrelationships 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 paleopathology.
Prerequisite: ANTA01; ANTB15 is recommended
Session: Winter Day
*L. Sawchuk*

**ANTB43S** Quantitative Methods in Anthropology
A consideration of quantitative data and analytical goals, especially in archaeology and physical anthropology. Some elementary computer programming, and a review of program packages suitable for anthropological analyses will be included.
Exclusion: ECOB11; PSYB07
Prerequisite: ANTA01; ANTB15 and ANTB26 are recommended
Session: Winter Day
*L. Sawchuk*

**ANTB44Y** Physiological Anthropology
Physiological principles and systems, ecological principles and systems, and the interrelationship of these two areas. This course is designed to give the student an understanding of physiology in its ecological setting, i.e. physiological Anthropology. 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 adaptations, etc.), ecological concepts and analysis (food chains, trophic levels, etc.).
Prerequisite: ANTA01 or BIOA03
Session: Winter Day
*L. Sawchuk, E. Molto*

**ANTB47F** Human Skeletal Biology
Structure and function in the human skeleton. The histology, and the ontogenetic as well as the phylogenetic development of skeletal elements is treated holistically. Palaeopathology 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 phylogenetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects. One one-hour lecture session, and one two-hour laboratory session per week.
Prerequisite: ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended
Session: Winter Day
*E. Molto*

**ANTB50F** Fact and Fiction in Anthropology
The merits of explanatory and other formulations concerning human prehistory. The course will consider proposals by popularizers of our prehistoric past such as E. von Daniken, R. Ardrey, D. Morris, and T. Heyerdahl and the contributions of archeologists F. Bordes, L. 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 and origins of henges, mounds, and other mounumental structures; and the reconstruction of prehistoric societies and activities, in both specific and general terms.
Prerequisite: ANTA01
Session: Winter Day
*G. Kukan*

**ANTB51Y** Medical Anthropology
The examination of health and disease in sociocultural and ecological perspective. Emphasis is placed on variability of populations in terms of both disease 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. Principles of epidemiology, patterns of inheritance, evolutionary processes, the cultural specificity of notions of health and illness, causation and cure, and the social and symbolic organization of therapy are considered. Specific topics include: infectious disease in historical perspective, ethnic variation of constitutional disease (focusing on World Jewry), curing roles, aims and techniques in traditional African and Latin American societies (shamanism, herbalism, sorcery, etc.), health care delivery and innovation in the Third World, mental illness and the social control of deviance.
Prerequisite: ANTA01
Session: Winter Day
*L. Sawchuk, M. Lambek*

**ANTB54Y** The Anthropology of Sex
An examination of sex and reproduction from the perspective of evolutionary biology.

This course presents current issues concerning the evolution of sexual reproduction and the place of the sexes in the adaptation of species. Data from genetics, endocrinology, growth and development, anatomy, physiology, ecology and social behaviour are used in a comparative (cross-species) framework to reconstruct general trends in the evolution of 'sex and the sexes'. In particular, non-human primate reproductive patterns are examined in light of their importance to understanding human reproduction and sexuality. Human sexuality in the present ecological setting of western society is considered from both the comparative biological and cultural perspectives.
Prerequisite: None, although an introductory course in Anthropology and/or Biology would be beneficial.
Session: Winter Evening
*E. Molto*

**ANTC03F** and **C04S** Directed Reading in Anthropology
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individual tutorials, as arranged.
Prerequisite: Permission of instructor
Session: Winter Day, Winter Evening, Summer Evening
*Members of Faculty*

**ANTC09Y** The Anthropology of Humour
An investigation of a general theory of humour, a classification of humour, and the search for universals. It is postulated that among other things, the cross-cultural study of humour should lead to a deeper understanding of core values and personality in specific societies. Limited enrolment: 15.

Collected data should yield information on comparative value systems. While examples and illustrations may be drawn from the Western World, most of the research will be concentrated on the "Third" World. Data are scattered, but information will be sought in fiction, fables, myths, plays and other sources. Students are expected to become familiar with literature from unfamiliar areas. Seminar; one two-hour session per week.
Prerequisite: Any two courses ANTB02; ANTB20; ANTB22; ANTB24
Session: Winter Evening
*C. Hopen*

**ANTC11Y** The Anthropology of Women
A consideration of 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 their findings to the group in an informal seminar. In the aftermath of International Women's Year, many scientists are re-examining traditional views of the origins and development of human culture from the female perspective.
Prerequisite: One B-level course
Session: Winter Day
*S. Hilton and M. Latta*

**ANTC12F** Research on the Social Behaviour of Non-Human Primates
The observation, recording and processing of data of the social behaviour of non-human primates. This field experience concentrates 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 commit 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 enrolment by permission of the instructor (when abroad) or 30 (at zoo, June 1-30. 10:00 a.m.-4:00 p.m. 5 days per week). **
Prerequisite: ANTB22 or permission of instructor
Session: Summer Day
** First meeting June 1, in Room H-424 at 10:00 a.m.
*F.D. Burton*

**ANTC13F** and **C14S** Advanced Research in Anthropology
Directed critical examination of specific problems in Anthropology, based on library and/or field research. Individual tutorials, as arranged.
Prerequisite: Permission of instructor
Session: Winter Day, Winter Evening, Summer Evening
*Members of Faculty*

ANTC155 Frontiers of Anthropology

**ANTC28S** The Prehistoric Archaeology of Canada
A survey of the varied concerns of Canadian archaeologists and the development of the science of Archaeology in Canada. An attempt to understand the significance of Canadian prehistory for modern Canadian social and cultural developments.
Exclusion: (ANTB28)
Prerequisite: ANTB38
Session: Winter Day
*M. Latta*

Not offered

**ANTC29Y** Analysis of Archaeological Material
An in-depth examination of two major classes of material culture: ceramics and lithics. 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.
Exclusion: (ANTB29)
Prerequisite: Any B-level course in Archaeology
Session: Winter Day
*M. Latta, G. Kukan*

**ANTC42Y** Native Peoples of Canada
A specialized study of ethnographic and theoretical problems of native Canadian cultures.
The first term will focus upon traditional cultures with special emphasis on one ethnographic area. The second term will concentrate upon contemporary native cultures and their adjustment to Euro-Canadian society. Case examples illustrating the complex relationship between native cultures and the dominant society will be drawn from different parts of Canada. Two hours per week of lectures and one hour per week for discussion.
Exclusion: (ANTB42)
Prerequisite: ANTA01; and one B-level course or permission of instructor
Session: Winter Day

**ANTC43Y** Anthropology of Race
An insight into and an appreciation of the concept of race.
This concept is central to human biology and raises major issues concerning the processes of diversity, evolutionary history and social relationship. Modern theories are never wholly modern, as they contain the elements and constructs of previous ideas. Often these older ideas are fallacious or unscientific but so much a part of general thought that newer ideas are overwhelmed. The course will concentrate on primary sources from 1700 to the present. Four major periods are delineated; 1700-1860; 1860-1925; 1925-1945; 1945-present. These periods demarcate the modes and moods concerning the concept of race, the antiquity of humankind and explanations for its diversity. Limited enrolment: 20.
Prerequisite: ANTB15
Session: Winter Day
*F. Burton*

**Courses Not Offered in 1981-82**

**ANTB01F** Ecological Anthropology
*Exclusion:* (ANTB10)
*Prerequisite:* ANTA01

**ANTB03F** The Americas: An Anthropological Perspective

**ANTB07S** Comparative Slavery
*Prerequisite:* ANTA01

**ANTB14Y** Human Evolution
*Prerequisite:* ANTA01; ANTB15 is recommended

**ANTB18Y** Cultural Evolution
*Prerequisite:* ANTA01, or permission of instructor

**ANTB19S** Economic Anthropology
*Prerequisite:* ANTA01

**ANTB22Y** Primate Behaviour
*Prerequisite:* ANTA01 or PSYA01 or BIOA03

**ANTB24Y** The Organization of Group Cultures
*Corequisite* ANTA01,: a course in Sociology or Geography or Psychology or permission of instructor

**ANTB27Y** Prehistoric Archaeology: Field Methods and Materials
*Corequisite:* ANTB26

**ANTB39Y** Human Diversity
*Prerequisite:* ANTA01; ANTB15 is recommended

**ANTB41S** Pre-Industrial Technology
*Prerequisite:* ANTA01

**ANTB46S** Enculturation and Childhood
*Prerequisite:* ANTA01 or permission of instructor

**ANTB48S** Human Odontology
*Prerequisite:* ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended

**ANTB49S** Law and Society
*Prerequisite:* ANTA01 or permission of instructor

**ANTB52Y** Field Methods in Historical Archaeology
*Prerequisite:* ANTA01, ANTB26; HISB04 recommended as well

**ANTB53Y** Classification and Material Culture
*Prerequisite:* ANTB26

**ANTC02F** Systems of Thought
*Prerequisite:* At least B-level course in social Anthropology

**ANTC15F** Frontiers of Anthropology
*Prerequisite:* ANTA01 and one B-level course in Anthropology

**ANTC16S** History of Ethnological Theory
*Exclusion:* (ANTB09)
*Prerequisite:* ANTA01 and ANTB20 or permission of instructor

**ANTC36Y** New Perspective on Human Origins
*Prerequisite:* ANTB14 or ANTB15

**ANTC44F** Background to Modern Archaeology
*Exclusion:* (ANTB13)
*Prerequisite:* Any B-level course in Archaeology

# Astronomy

*Discipline Representative:* P.P. Kronberg
Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically man's attempt to gain an understanding of his place in the Universe, ranging from 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 hitherto unsuspected complex molecules 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 ASTA02 (for science students) and ASTA03 (for non-science students) while selected astrophysical topics are dealt with at a more advanced level in ASTB01 and ASTC01. JPAC10 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

With the College's acquisition in 1980 of a modern Questar 12-inch telescope equipped with photometer and spectrometer, a new astrophysics laboratory course ASTB02H has been introduced, which is based on astronomical observation by the students using the new telescope.

**Specialist Programme in Astronomy and Physics**
*Supervisor:* P.P. Kronberg and J.D. King
Astronomy and astrophysics research occupy a prominent place in modern frontier research in Physical Science. Likewise research and other activities in space will occupy an increasingly important place in the endeavours of the industrial nations. The aim of the Astronomy and Physics Specialist Programme described here is to prepare the student for post-graduate study of astronomy and astrophysics at the research level or for a further career in space-related activities in industry or government.

Modern astronomy draws extensively on the fields of physics and mathematics. In order that the Advanced Mathematics courses be available, the early choice of Mathematics courses is crucial. There is likewise a strong core of Physics courses which form the backbone of this Specialist Programme. By acquiring the necessary background in astronomy, physics, and

mathematics, a student will be in a position to consider further study of astronomy at the research level.

There are fifteen full-course equivalents prescribed out of a total of twenty courses overall. Students are advised to choose their other courses after consultation with the Supervisor, particularly at the fourth year level, where there is some degree of choice depending on the student's future plans. Particularly recommended are PHYB03F (Introductory Electronics) and a half course in Computer Science.

*First year:*

| | |
|---|---|
| PHYA02Y | Principles of Physics |
| MATA26Y | Calculus |
| ASTA02Y | Introductory Astronomy and Astrophysics |

*Second year:*

| | |
|---|---|
| PHYB01S | Electricity and Magnetism I |
| PHYB04F | Waves |
| PHYB09S | Thermodynamics |
| PHYB17S | Introduction to Quantum Physics I |
| PHYB18F | Special Relativity |
| ASTB02H | Practical Astronomy |
| MATB41F | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |
| or | |
| MATB50F | Analysis I |
| MATB55S | Analysis II |

*Third year:*

| | |
|---|---|
| PHYC01F | Quantum Physics II |
| JPMC42S | Advanced Classical Mechanics |
| PHYC03Y | Electricity and Magnetism II |
| MATC51F | Differential Equations I |
| MATC60F | Complex Analysis I |
| ASTB01Y | Topics in Astrophysics: Origin and Evolution |

*Fourth year:*

| | |
|---|---|
| JPAC10Y | Relativity and Cosmology |
| ASTC01H | Research Topic in Astronomy |
| AST420Y | Astrophysics |
| PHY335H | Introduction to Nuclear Physics |
| or | |
| PHY337H | Elementary Particle Physics |
| and one of | |
| PHY456Y | Modern Optics and Radiation |
| PHY450Y | Quantum Theory |
| PHY451Y | Statistical Mechanics |
| PHY454Y | High Energy Physics |

**Major Programme in Astronomy and Physics**

*Supervisor:* R.C. Roeder

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

*First year:*

| | |
|---|---|
| PHYA02Y | Principles of Physics |
| or | |
| PHYA03Y | Physics for Life Sciences I |
| MATA26Y | Calculus |
| or | |
| MATA55Y | Calculus with Analysis |
| ASTA02Y | Introductory Astronomy and Astrophysics |

*Second year:*

| | |
|---|---|
| PHYB01S | Electricity and Magnetism I |
| PHYB04F | Waves |
| PHYB17S | Introduction to Quantum Physics I |
| ASTB02H | Practical Astronomy |
| MATB41F | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |
| or | |
| MATB50F | Analysis I |
| MATB55S | Analysis II |

*Third year:*

| | |
|---|---|
| ASTB01Y | Topics in Astrophysics |

One additional full-course equivalent from PHYB09S, B18F, C0IF, C03Y, C06F, ASTC01H

**ASTA02Y** Astronomy and Astrophysics: An Introduction

In this modern look at the Universe an appreciation of the techniques and implications of astronomical observations 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 quasars; from the wasteland of interstellar space to the nuclear inferno deep in a stellar interior; from the quiet life of a star like the sun to its often cataclysmic demise; from the tranquillity of an interstellar dust cloud to the frenzied environs of a pulsar, an X-ray source or a black hole. Completion of this course should better equip one to assess the importance of forthcoming developments in 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 extracurricular star-gazing.

The course structure is two lectures and one tutorial/laboratory per week. Practical observations are introduced in the laboratory periods and on scheduled evenings in the fall. Visits to the David Dunlap Observatory and the McLaughlin Planetarium are also arranged.

Exclusion: ASTA03
Prerequisite: Grade 13 Physics, Grade 13 Functions and Relations
Session: Winter Day
*R.C. Roeder*

**ASTA03Y** Introduction to Astronomy

A description of the solar system, sun, stars, galaxies and other phenomena of the Cosmos in which we live. The mechanisms which make our sun and other stars shine are explained, and the nature and evolution of our solar system, star systems, galaxies and the Universe as a whole are discussed in a manner suitable for the non-science student. Methods and techniques for exploring the Universe are described, including the recent use of radio telescopes and telescopes on spacecraft.

In addition to the two lectures per week, there is one tutorial hour per week. This is supplemented by a planetarium demonstration and a class trip to the David Dunlap Observatory. Using the College's new 12 inch Questar telescope, students also have an opportunity to observe and to photograph heavenly bodies if they wish.

Exclusion: ASTA02
Session: Winter Day

**ASTB02H** Practical Astronomy

Practical experience in astronomical photography, spectroscopy and photometry using the College telescopes.

The methods of astronomical photography, spectroscopy and photometry will be studied. Experimental work specifically suitable to obtaining data from observations with Scarborough College's new 12 inch Questar will be emphasized. Photographic, spectrographic and photometric equipment will be available for students during times suitable to individual students for use in their projects.

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

Prerequisite: ASTA02 or ASTA03; PHYA02 or PHYA03 (or PHYA01); MATA26 or MATA55
Session: Winter Day

**ASTB03S** Great Moments in Astronomy

An examination of the people, the background and the events associated with some major advances in astronomy. Emphasis is given to the role of a few key individuals and to how their ideas have revolutionized our understanding of natUre and the Universe. Implications of the revised outlook are also discussed. The course will focus on: the first measurement of stellar distances; the prediction of the existence of Neptune; the discovery of the nature of stars; the proof of the existence of "island universes"; the birth of the theory of stellar structure; the detection of the cosmic fireball; and the expansion of the Universe. The perspective gained is used to assess current astronomical research and its impact on society.

The course is intended primarily for students not in Physical Science who, in their second or higher years, wish to acquire an understanding of the origins and significance of our present world view. A term paper dealing in detail with an aspect of one of the topics is required.

Session: Winter Evening

**ASTC01H** Research Topics in Astronomy

Application of individual effort to reading and research on a topic of current interest.

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-thesis") on his work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. For

more detailed information see Professors Kronberg, Martin, or Roeder. The bibliography is dependent upon the topic selected.
Prerequisite: ASTA02 or ASTB01; PHYB01; permission of instructor
Session: Winter Day
*P.P. Kronberg, P.G. Martin, R.C. Roeder*

**Courses not Offered in 1981-82**

**ASTB01Y** Topics in Astrophysics; Origin and Evolution
*Prerequisite:* PHYA02 (or PHYA01) or PHYA03; MATA26 or MATA55 and ASTA02

**JPAC10Y** Relativity and Cosmology
*Prerequisite:* PHYB01; JPMC42, PHYB18 would be desirable.

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

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

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

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

**Specialist Programme in Biology**
*Supervisor:* G.F. Israelstam
This Programme must include the following fourteen full-course equivalents:
**1** BIOA03Y
**2** At least one full-course equivalent from each of the following core areas:
a Genetics and Evolution: BIOB05Y, BIOB11Y, BIOB23Y
b Physiology and Biochemistry: BIOB02Y, BIOB06Y, BIOB17Y, BIOB19S, BIOB31F, JBCB35Y, JBCB36H, BIOB48F, BIOB49S, BIOC12H
c Ecology and Environmental Studies: BIOB12Y, BIOB15Y, BIOB43Y, BIOB47Y, BIOC09F, BIOC11Y, BIOC14F, BIOC16S, BIOC17F
d Morphology and Taxonomy: BIOB08Y, BIOB13Y, BIOB20F, BIOB22Y, BIOB24Y, BIOB27Y

**3** Five other full-course equivalents in Biology, unspecified. These must include at least one full-course equivalent at the C-level and the plant sciences, e.g., BIOB06Y, BIOB13Y, BIOB24Y, BIOB47Y, BIOB49S, BIOC11Y, BIOC12H. These five courses may include courses offered on other campuses of the University of Toronto subject to the general regulations (cf. p. 19 of 1981-82 Calendar). For a list of courses approved for this purpose, consult the Life Sciences Divisional Office.
**4** Three courses in cognate disciplines:
a CHMA02Y
b PHYA02Y or PHYA03Y
c Any *one* of the following: MATA22Y, MATA26Y, or MATA27Y or MATA55Y
One course from each of the above groups must be taken.
**5** One full-course equivalent from selected offerings in Humanities or Social Science. A list of courses from which one is to be chosen is available in the office of the Supervisor or the Divisional Office.

A list of courses particularly suitable as options in the Biology Specialist Programme is also available in the office of the Supervisor or the Divisional Office.

Students are referred also to the following Programmes: Specialist Programme in Chemistry and Biochemistry (listed under Chemistry); Quaternary Studies; and Neurosciences.

**Major Programme in Biology**
*Supervisor:* D.D. Williams
This Programme must include BIOA03Y and any six full-course equivalents of the 'B' level courses offered by the Biology section of Life Sciences at Scarborough College, with the following restrictions:
**1** At least one full-course equivalent must be in the plant sciences and one in the animal sciences.
**2** At least one full-course equivalent from each of groups 2(a), (b), (c), and (d) above.
**3** Courses required as pre- and co-requisites for any of the above courses which are *not* offered as Biology courses may *not* be considered as one of the seven required for a Major Programme in Biology. This relates specifically to Biochemistry which has a Chemistry course as a prerequisite.

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

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

**BIOA03Y** Introductory Biology
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, plant hormones, evolution. There will be two one-hour lectures and one three-hour laboratory per week.

This course is designed for students who intend to pursue further courses in Biology or other Natural Sciences. It offers a thorough consideration of basic biological concepts as they pertain to both plants and animals. Lectures will emphasize the energetics of living systems, the transmission and functions of genes, integrative functions and the origin and evolution of life. Laboratory and discussion periods will supplement the lecture material.
Exclusion: Not open to students who are taking NSCA02
Session: Winter Day
*The Faculty*

**BIOB02Y** 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 each week.
Prerequisite: BIOA03
Session: Winter Day
*J. Silver*

**BIOB05Y** Genetics
A lecture and laboratory course in basic genetics and cytogenetics, with examples chosen from work on bacteria, fungi, Drosophila and vertebrates, including man.

Mendel's principles, linkage, mapping, assignment of genes to chromosomes, structure of gene, genetic control of protein synthesis, regulation of gene activity, chromosome structure, mutation, cytoplasmic inheritance. Lectures, laboratory work, problems, discussion.
Prerequisite: BIOA03
*Session: Winter Day*
*M.F. Filosa*

**BIOB06Y** Plant Physiology
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. Enzymology. Photosynthesis and respiration. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
*G.F. Israelstam*

**BIOB08Y** Invertebrate Zoology
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 (Protoza - Urochordata) and will involve classification and study of diversity within groups, with emphasis on functional morphology and evolution. The second term will be devoted to the Arthropoda and will include the ecology and behaviour of interesting groups. Living specimens and technical films will form an important part of laboratories. Two one-hour lectures and three hours of laboratory work per week. One field trip.
Prerequisite: BIOA03
Session: Winter Day
*D.D. Williams*

**BIOB11Y** Animal Population and Evolution
A study of the process of heritable changes in animal populations with special regard to population genetics, population dynamics and species diversity.

The lectures deal with genetic variation and its source, natural selection, genetic drift, and modes of speciation. The laboratories consist of problems in population genetics and the discussion of current literature on evolutionary and population topics.
Prerequisite: BIOA03
Corequisite: BIOB05
Session: Winter Day
*I. Campbell*

**BIOB12Y** Fundamentals of Ecology
The scientific study of the interactions that determine the distribution and abundance of organisms. A course intended to promote the development of an *ecological conscience* but not a course devoted to the problems of pollution and populations.

Factors limiting the distribution of organisms such as adaptation, behaviour, and dispersal; attributes of populations: population estimation, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions: competition and predation; theories of population regulation; ecological genetics and evolution; attributes of communities: concept of the community, species diversity, community patterns and classification, succession and climax; concept of the ecosystem; biomes of the world; community energetics; community nutrition; other topics of general ecological interest including the human population problem, island biogeography, and systems analysis.
Prerequisite: BIOA03
*Session: Winter Day*
*R. Boonstra*

**BIOB13Y** Plant Structure and Development
A course dealing with the structural variation and development of cells, tissues and organs in seed plants with emphasis on vegetative plant parts - roots, stems and leaves. Most laboratory periods offer the opportunity to gain first hand experience with plant material discussed in the lectures and text. 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 vascularization, plant cell wall variation, protoplasmic constituents of plant cells; cell types of the epidermis, parenchyma, collenchyma, xylem and phloem tissues; the vascular cambium and cork cambium and their derivatives; initiation and development of roots, stems, and leaves. Lecture and laboratory work. The bibliography for this course is Esau, K. *Anatomy of Seed Plants*, John Wiley, New York.
*Session: Winter Day*
*R. Dengler*

**BIOB17Y** 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: (i) body fluids and circulation, (ii) ionic and osmotic balance, (iii) excretion, (iv) gas exchange, (v) nerve and muscle physiology. First term - nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation. Second term - nerves and bioelectricity, synapses and integration, muscle and neuromuscular systems, sense receptors and C.N.S., hormones. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
*C.K. Govind*

**BIOB19S** Biology of Macromolecules
The basic concepts of the molecular biology of the gene - key experimental observations. Main topics will be mechanisms of gene replication and regulation of gene activity in higher and lower organisms. Students will receive laboratory experience in the use of a range of molecular biology techniques.

This course is divided in two sections. The first deals with the structure and replication of DNA. The second concentrates on RNA and protein synthesis. Laboratory exercises include (i) purification of DNA and RNA; (ii) isolation of DNA polymerase; (iii) DNA reassociation kinetics; (iv) purification and gel electrophoresis of chromosomal proteins. The course is suitable for third and fourth year students. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
*I.R. Brown*

**BIOB20F** Cell Ultrastructure
A course dealing with current concepts of animal and plant cell ultrastructure and 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: (i) methods used in the biological application of electron microscopy; (ii) cell membranes and cell surfaces; (iii) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc. Lectures and laboratories.
Prerequisite: BIOB13 or BIOB24 or BIOB27
Session: Winter Day
*R. Dengler, J. Youson*

**BIOB22Y** Comparative Vertebrate Morphogenesis
A lecture and laboratory course dealing 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.
Prerequisite: BIOA03
Session: Winter Day

**BIOB23Y** Developmental Biology
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.

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 - erythropoiesis, lens development, spermatogenesis, myogenesis, frog metamorphosis and carcinogenesis. In the last half of the second term R. Dengler discusses aspects of plant development. Some of the topics dealt with in this portion of the course are - comparison 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.
Prerequisite: BIOA03
Session: Winter Day
*I.R. Brown and R. Dengler*

**BIOB27Y** Comparative Vertebrate Histology
The structure of the cells, tissues, and organs making up the major body systems of a variety of vertebrates as revealed through the light and electron microscopes. Differences and similarities of body systems will be discussed 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 in the organ systems (sense, digestive, respiratory, excretory, reproductive, and endocrine systems). Two one-hour lectures and three hours of laboratory per week.
Session: Winter Day
*J. Youson*

**BIOB31F** Invertebrate Neurobiology
An examination in lectures, seminars and laboratory work, of current topics on invertebrate neurobiology. These topics will revolve around the neural synaptic and muscular mechanisms underlying certain simple behaviours and their development especially in insects, crustaceans and molluscs.
One two-hour lecture per week; seminars and laboratory work to be arranged with class.
Prerequisite: BIOA03
Session: Winter Day
*C.K. Govind*

**JBCB35Y** *Introductory Biochemistry*
An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics.
Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.
The teaching method will consist of two one-hour lectures per week. The text used is: *Biochemistry: The Molecular Basis of Cell Structure and Function* - by A.L. Lehninger, Worth Publishers Inc.
Prerequisite: BIOA03; CHMB05
Session: Winter Day
*J. Gurd*

**JBCB36H** Laboratory in Biochemistry
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research.
The course will introduce students to practical and theoretical aspects of techniques used in biochemical research, including: spectrophotometry; chromatography; radioisotopes; 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.
Prerequisite: BIOA03; CHMB05
Corequisite: JBCB35
Session: Winter Day
*J. Gurd*

**BIOB48F** Bacterial Physiology and Ecology
A lecture and laboratory course dealing for the most part with bacterial physiology and ecology. Emphasis is placed on molecular mechanisms of regulation and of adaptation to environmental factors such as temperature, salinity and availability of nutrients. The biochemical bases of nitrogen-fixation, sporulation and chemotaxis are discussed. Laboratory exercises are research-oriented experiments involving the use of radioisotopes, antibiotics and gel electrophoresis. Limited enrolment: 25.
Prerequisite: BIOB02
Exclusion: (BIOB41)
Session: Winter Day
*J. Silver*

**BIOB49S** Biology of Algae
A lecture and laboratory course on the algae, with the objective of providing an understanding of their basic role in natural aquatic and terrestrial environments. Limited enrolment: 25.
Course content: principles of algal taxonomy; physiology of photosynthesis; light, temperature, nutrients and growth; mechanisms of adaptation to adverse environments; osmoregulation; and heterotrophy.
Prerequisite: BIOA03
Exclusion: (BIOB41)
Session: Winter Day
*C. Nalewajko (Sparling)*

**BIOC01Y** Supervised Study in Biology
An independent study course designed to permit intensive examination of the literature of a selected topic and/or laboratory or field project in Biology. Supervision of the work is arranged by mutual agreement between student and instructor.
Prerequisite: Satisfactory completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses
Session: Winter
*Members of Faculty*

**BIOC02Y** Directed Research in Biology
Identical to BIOC01Y but not to be taken with the same faculty member.
Prerequisite: Completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses
Session: Winter
*Members of Faculty*

**BIOC09F** Field Course in Aquatic Biology
A course given in late August or early September, before the beginning of term. Physical, chemical and biological aspects of various aquatic habitats will be studied intensively in a two week period of laboratory and field work, supplemented by lectures and discussion groups. Limited enrolment: 20.
The objectives are to gain practical research level experience in a whole ecosystem study of a lake and/or stream. During a fourteen day period (end of August-beginning of September) students will study a lake or stream in the vicinity of Toronto. An intensive sampling programme will include measurements of: physical and chemical parameters, nutrients, primary production, phytoplankton and macrophytes, zooplankton, benthos and fishes. Field and laboratory work will be supplemented by lectures and discussion groups. Bibliography: Golterman, H.L. *Methods for Chemical Analysis of Fresh Waters*. IBP Handbook No. 8 Blackwell Sci. Publ.; Vollenweider, R.A. (ed.) *Primary Production in Aquatic Environments*. IBP Handbook No. 12. Blackwell Sci. Publ. 1969; Hynes, H.B.N. *Ecology of Running Waters*. U. of T. Press.
Prerequisite: BIOA03; BIOB15; permission of instructors
Session: Winter Day
*C. Nalewajko (Sparling), D.D. Williams*

**BIOC10S** Phytoplankton - Methods and Techniques
A seminar course, with laboratory and field work, on phytoplankton taxonomy and on practical aspects of sampling, identification and enumeration of phytoplankton.
Principles of phytoplankton taxonomy. Isolation of unialgal and axenic cultures of algae. Parameters for estimation of phytoplankton populations. Spatial heterogeneity, and seasonal succession of phytoplankton in (a) the Great Lakes (b) a lake in Southern Ontario. One five hour session per week. Formal lectures are de-emphasized, while laboratory work and seminars are stressed. Reading material consists almost exclusively of papers from scientific journals. Most of these are available from the reserve room in the library.
The objectives are to gain practical experience in phytoplankton ecology and in the sampling, identification and enumeration of planktonic algae. This is an advanced and graduate level course, for students with background in physiology and ecology of algae. Dr. M. Munawar, research scientist at Canada Centre for Inland Waters, Burlington, participates in this course.
Prerequisite: BIOB15
Session: Winter Day
*C. Nalewajko (Sparling)*

**BIOC11Y** Quaternary Plant Ecology
An examination of the methodology, results and implications of pollen megafossil and other analyses of Quaternary sediments from the major regions of the world. Lectures, seminars and a laboratory with field work. Given in alternate years.
The history of the plant cover of the earth during the past several millenia, 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 will be attempted based on understanding of modern ecology.
Prerequisite: BIOB12; QUAA03 (NSCA03)
Session: Winter Day
*J.C. Ritchie*

**BIOC12H** Physiology and Biochemistry of Plant Growth and Development
A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development. Limited enrolment: 12
The plant growth hormones and their mechanism of action, germination, dormancy, senescence, tropic responses, growth mechanisms, correlation effects, 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 "library research", providing a sound basis for possible future research in this field. Lectures and seminars.
Prerequisite: BIOB06
Corequisite: JBCB35 recommended
Session: Winter Day
*G.F. Israelstam*

**BIOC14F** Ecological Methods
A course dealing 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 censusing, and life table analysis; the computing facilities will be used as a tool in data analysis through the use of packaged programmes. Lectures, laboratories, and field work.
Prerequisite: BIOB12 and an introductory statistics course such as PSYB07, STAB52, GGRB02, ANTB43, ECOB11, or the permission of the instructor.
Session: Winter Day (labs. Evening.)
*R. Boonstra*

**BIOC16S** Marine Biology: Habitats and Communities
A lecture course in selected topics of marine biology. *Offered in alternate years.*

Topics will include origins of the oceans; waves, tides and currents; historic 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 invertebrate, fish and cetacean harvesting versus aquaculture and conservation; marine pollution, and man in the sea. Two hours of lectures per week plus biweekly tutorials. Limited enrolment:20.
Prerequisite: BIOB08
Session: Winter Evening
*D.D. Williams*

**BIOC17F** Marine Biology: Nutrients and Productivity
Nutrients, phytoplankton and primary production in marine ecosystems. An advanced lecture course for students with a background in aquatic ecology.
Prerequisite: BIOB15 or BIOB12
Session: Winter Day
*C. Nalewajko (Sparling)*

**Courses Not Offered in 1981-82**

**BIOB15Y** *Aquatic Systems*
*Prerequisite:* BIOA03 and at least one B-level Biology course.
**BIOB24Y** Plant Kingdom
**BIOB43Y** General Vertebrate Biology
*Prerequisite:* BIOA03; BIOB22, (BIOB17, BIOB11, BIOB12, BIOB27 useful but not required).
**BIOB47Y** Plant Ecology
*Prerequisite:* BIOB12
**BIOC05S** Advances in Developmental Biology
*Prerequisite:* At least one of (BIOB07), BIOB13, (BIOB16), BIOB22, BIOB23, BIOB27
**BIOC13S** Environmental Biology of Fish Populations
*Prerequisite:* BIOB43

# Canadian Studies

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

SPECIALIST PROGRAMME - see under.

**College Programme in Canadian Studies**
*Supervisor:* T. McFeat
Students must select nine full-course equivalents as follows:

1 FREB06Y (or FREA06Y followed by FREB06Y)
2 One of:

| | |
|---|---|
| FREB36F/S | French-Canadian Novel to 1945 |
| FREB37F/S | French-Canadian Novel since 1945 |
| FREB38F/S | Theatre of French Canada |
| FREB43F/S | French Language in Canada |

3 HISB04Y Introduction to Canadian History
4 One of the following:

| | |
|---|---|
| ANTB16S | Cultures of Modern Canada |
| POLB50Y | Canadian Government and Politics |
| ENGB07Y | Canadian Literature in English |
| SOCB13Y* | Canadian Society |

5 Five and one-half further full-course equivalents (or six if ANTB16S is chosen from the preceding group) from the groups A, B and C listed below. The selection must include at least one full-course equivalent from each of the groups.

*Group A*

| | |
|---|---|
| ENGB07Y | Canadian Literature in English |
| (ENGB13F/S*) | Drama in English Canada 1920-1970 |
| ENGB25F/S* | The Canadian Short Story |
| ENGB26Y* | Canadian Poetry in English |
| ENGB27Y* | Canadian Fiction in English |
| FARB60Y | The Arts in Canada: 1670 to 1960 |
| FARB61Y | The Canadian Landscape |
| FARB62F/S | Recent Canadian Art |
| FREB16Y* | Language Practice |
| FREB36F/S | French-Canadian Novel to 1945 |
| FREB37F/S* | French-Canadian Novel since 1945 |
| FREB38F/S* | Theatre of French Canada |
| FREB43F/S* | French Language in Canada |
| FREC39F/S* | French-Canadian Poetry |

*Group B*

| | |
|---|---|
| ANTB16S | Cultures of Modern Canada |
| ANTB21Y* | North American Background to Canadian Native Peoples |
| ANTB38F* | Prehistory of North America North of Mexico |
| ANTC28F* | Prehistoric Archaeology of Canada |
| HISB04Y | Introduction to Canadian History |
| HISB42Y | French Canada: Origins to the Present |
| HISB43Y* | The Evolution of Ontario 1850-1950 |
| HISB44F/S* | Canadian Religious Traditions |
| HISB46Y* | Atlantic Canada |
| HISB47Y* | The Canadian Left, 1867-present |
| HISC41F/S* | Old Huronia |
| HISC42F/S* | Church-State Relations in Canada |
| HISC43F/S* | Selected Topics in Canadian Religious History |
| HISC45Y* | History of Canadian Social, Political and Historical Thought |
| POLB50Y | Canadian Government and Politics |
| POLB51F/S* | Government and Politics in Ontario |
| POLB52F/S* | Canadian Constitutional Law |
| POLB53Y | Public Policies in Canada |
| POLB54F/S* | Intergovernmental Relations |
| POLB60Y | Public Administration |
| POLB81F/S* | Canadian Foreign Policy |
| POLB88Y | Urban Politics |
| POLC51F/S* | Topics in Canadian Government |
| POLC61F/S* | Policy Development |
| POLC71Y | Canadian Political Ideas |
| SOCB13Y* | Canadian Society |
| SOCB15Y* | Sociology of Mass Media and Communications |
| SOCB20Y* | Ethnic and Race Relations |
| SOCB23Y* | Population |
| SOCC24F/S* | Changing Family Life in Canada |
| SOCC27F/S* | Social Class in Canadian Society |

*Group C*

| | |
|---|---|
| ECOA01Y | Introduction to Economics |
| ECOB07Y* | Macroeconomic Theory and Policy |
| ECOB31F/S* | *Economics of the Public Sector: Taxation* |
| ECOB32F/S* | Economics of the Public Sector: Expenditure |
| ECOB35F | Public Decision Making |
| ECOB37S | Law and Economics |
| ECOB45F/S* | Poverty and Income Distribution |
| ECOB62F/S* | International Economics: Trade Theory |
| ECOB81Y* | North Anerican Economic History |
| COMC15Y* | Income Tax |
| GGRB01Y* | Geography of Resources |
| GGRB05Y* | Urban Geography |
| GGRB17Y* | Rural Geography |
| GGRC04F/S* | Urbanization and Residential Geography |
| (GGRC14F/S*) | Settlement of Upper Canada |
| GGRC31S | Development and Planning of Metropolitan Regions |
| GGRC34F* | Landscape Interpretation |
| NSCA02Y | Introduction to Natural Science: *The Biological Sciences* |
| QUAA03Y | Ice Ages and Human Ecology |
| BIOB12Y* | Fundamentals of Ecology |
| BIOB15Y* | Aquatic Systems |
| (BIOB39B*) | Biogeography |
| BIOB47Y* | Plant Ecology |
| BIOC14F/S* | Ecological Methods |

* - indicates a course for which there is a prerequisite or corequisite; students should check the main calendar entries for such information.

It should be noted that there are supervised reading courses at the C-level in many disciplines. If these are concerned with Canadian material, they may be included in the above listing of courses. However they normally require several prerequisites and approval from the discipline representative before they can be undertaken.

Not all B-level and C-level courses are offered every year. Students should check discipline entries in the calendar for detailed information.

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

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

The basic course in chemistry is CHMA02 which must be taken by those who wish to take further chemistry courses or who require chemistry for another science.

Completion of CHMA02 permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry (CHMB01), Analytical Chemistry (CHMB02 or CHMB04, CHMB08), Organic Chemistry (CHMB05 or CHMB06) and Physical Chemistry (CHMB03). Thereafter, one can proceed to the following advanced-level courses: CHMC01 (Inorganic), CHMC02 (Physical), CHMC03 (Organic) and JBCB35 (Biochemistry).

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

| *To Enter St. George Series* | *Complete Scarborough Courses* |
|---|---|
| 420 | CHMA02; CHMB03; CHMC02 |
| 430 | CHMA02; CHMB01; CHMB02; CHMC01 |
| 440 (except 447) | CHMA02; CHMB05; CHMC03 |

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA02 or PHYA03 early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA02, MATA55 or MATA26 and PHYA02 or PHYA03.

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

**Specialist Programme in Chemistry**

*Supervisor:* R.A. McClelland

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

Students should complete the following fifteen required courses:

**1** First year:

| | |
|---|---|
| CHMA02Y | General Chemistry |
| MATA26Y | Calculus |
| or | |
| MATA55Y | Calculus with Analysis |
| PHYA02Y | Principles of Physics |
| or | |
| PHYA03Y | Physics for Life Sciences I |

**2** Second and Third years:

| | |
|---|---|
| CHMB01Y | Inorganic Chemistry I |
| CHMB02Y | Analytical Chemistry |
| CHMB03Y | Physical Chemistry I |
| CHMB05Y | Organic Chemistry |
| CHMC01Y | Inorganic Chemistry II |
| CHMC02Y | Physical Chemistry II |
| CHMC03Y | Organic Chemistry II |
| MATB41F | *Techniques of the Calculus of Several Variables I* |
| MATB42S | Techniques of the Calculus of Several Variables II |
| or | |
| MATB50F* | Analysis I |
| MATB55S | Analysis II |

* Students should note that if they are going to elect MATB50F and MATB55S they must take MATA40F and MATA55Y among their first five courses and MATA45S among their first ten courses.

**3** In addition, four more full-course equivalents in Chemistry, including at least three full-course equivalents selected from the CHMC40 - 50 series and the 400 level courses at the St. George Campus. At least one full-course equivalent must be taken at St. George from the 400 level, CHM313H (Crystal Chemistry) and CHM325H (Macromolecular Chemistry) or CHM314Y (Instrumental Analytical Chemistry).

**Specialist Programme in Chemistry and Biochemistry**

*Supervisor:* T.T. Tidwell

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

Students should complete the following fifteen courses:

**1** First year:

| | |
|---|---|
| CHMA02Y | *General Chemistry* |
| BIOA03Y | Introductory Biology |
| MATA26Y | Calculus |
| or | |
| MATA55Y | Calculus with Analysis |
| PHYA02Y | Principles of Physics |
| or | |
| PHYA03Y | Physics for the Life Sciences I |

**2** *Second and Third years:*

| | |
|---|---|
| CHMB01Y | Inorganic Chemistry I |
| CHMB02Y | Analytical Chemistry |
| CHMB03Y | Physical Chemistry I |
| CHMB05Y | Organic Chemistry I |
| JBCB35Y | Introductory Biochemistry |
| JBCB36H | Laboratory in Biochemistry |
| ~~CHMC01Y~~ | |
| ~~or~~ | |
| CHMC01Y or | Inorganic Chemistry II |
| CHMC02Y | Physical Chemistry II |
| CHMC03Y | Organic Chemistry II |
| MATB41F | Techniques of the Calculus of Several Variables I |
| or | |
| MATB50F | *Analysis I* |
| MATB42S | Techniques of the Calculus of Several Variables II |
| or | |
| MATB55S | Analysis II |

**3** In addition, CHM447S (St. George) or BCH424S (St. George), one additional BCH400 series half-course (St. George) one and one-half *additional CHM full-course equivalents* selected from the C-level or 300 - 400 series (St. George), or 400 series BCH courses.

NOTE: In addition to the courses noted above an additional Biology course is recommended. BIOB19S, BIOB17Y, BIOB02Y, (BIOB41Y), BIOB06Y are particularly appropriate for this programme.

**Specialist Programme in Chemical Physics**
*Supervisor:* P. Brumer
This programme offers students interested in both Chemistry and Physics the opportunity to combine their studies in the Specialist Programme. For the first two years the course of studies also satisfies the Chemistry Specialist Programme requirements.

Students should complete the following fifteen courses. They include two alternative mathematics sequences. One sequence provides a rigorous mathematical development; the alternative sequence emphasizes technique rather than rigour. Students starting in the MATA26Y sequence are urged to include MATA40F and MATA45S at some stage in their programme.

**1** First year:

| | |
|---|---|
| CHMA02Y | General Chemistry |
| PHYA02Y | Principles of Physics |
| or | |
| PHYA03Y | Physics for Life Sciences I |
| MATA26Y | Calculus |
| or | |
| MATA55Y | Calculus with Analysis |

**2** Second and Third years:

| | |
|---|---|
| CHMB01Y | Inorganic Chemistry I |
| CHMB03Y | Physical Chemistry I |
| CHMB05Y | Organic Chemistry I |
| MATB41F | Techniques of the Calculus of Several Variables I |
| and | |
| MATB42S | Techniques of the Calculus of Several Variables II |
| or | |
| MATB50F | Analysis I |
| and | |
| MATB55S | Analysis II |
| CHMC02Y | Physical Chemistry II |
| PHYB01S | Electricity and Magnetism I |
| PHYB03F | Introductory Electronics |
| PHYB04F | Waves |
| PHYB08H | Intermediate Physics Laboratory |
| MATC51F | Differential Equations I |
| and | |
| JPMC42S | Advanced Classical Mechanics |

**3** Fourth year: Four full-course equivalents must be taken, including a CHM400 series course on the St. George Campus, at least one full-course equivalent from PHYC01F, PHYC03Y, PHYC04S, PHYC05H, PHYC06F or a 300 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.
Students are urged to consult with the supervisor early in the Programme.

**Major Programme in Chemistry**
*Supervisor:* K.A. Henderson
This is the most general Major Programme offered. With its wide selection of options, it offers the possibility of obtaining an introduction to all of the subdisciplines of chemistry.

Students should complete the following eight courses:

**1** First year:

| | |
|---|---|
| CHMA02Y | General Chemistry |
| MATA26Y | Calculus |
| or | |
| MATA27Y | Techniques of Calculus |
| or | |
| MATA22Y | Calculus with Statistics |
| or | |
| MATA55Y | Calculus with Analysis |
| PHYA02Y | Principles of Physics |
| or | |
| PHYA03Y | Physics for Life Sciences I |

**2** Second and Third years:
One of the following sets of options must be taken:

*1* "Inorganic/Organic"

| | |
|---|---|
| CHMB05Y | Organic I |
| CHMB01Y | Inorganic I |
| CHMB02Y | Analytical I |
| CHMC0IY | Inorganic II |
| CHMC03Y | Organic II |

*2* "Physical Organic"

| | |
|---|---|
| CHMB05Y | Organic I |
| CHMC03Y | Organic II |
| CHMB03Y | Physical I |
| CHMC02Y | Physical II |
| MATB4IF | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |

*3* "Physical Inorganic"

| | |
|---|---|
| CHMB03Y | Physical I |
| CHMB01Y | Inorganic I |
| CHMB02Y | Analytical |
| MATB41F | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |
| one of | |
| CHMC01Y | Inorganic II |
| CHMC02Y | Physical II |

*4* "Chemistry"

| | |
|---|---|
| CHMB05Y | Organic I |
| CHMB01Y | Inorganic I |
| CHMB02Y | Analytical |
| CHMB03Y | Physical I |

One C-level Chemistry course*

* Students should note that if they are going to select CHMC02Y, MATB41F and MATB42S or MATB50F and MATB55S are required as prerequisites.

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

Students should complete the following eight courses:

**1** First year:

| | |
|---|---|
| CHMA02Y | General Chemistry |
| MATA22Y | Calculus with Statistics |
| or | |
| MATA26Y | Calculus |
| or | |
| MATA27Y | Techniques of Calculus |
| or | |
| MATA55Y | Calculus with Analysis |
| BIOA03Y | Introductory Biology |

**2** Second and Third years:

| | |
|---|---|
| CHMB05Y | Organic Chemistry I |
| CHMC03Y | Organic Chemistry II |
| JBCB35Y | Introductory Biochemistry |
| JBCB36H | Laboratory in Biochemistry |
| (CHMB04S) | Analytical Chemistry I |
| or | |
| BIOB19S | Biology of Macromolecules |

and one full-course equivalent selected from:

| | |
|---|---|
| CHMB02Y | Analytical Chemistry |
| CHMB03Y* | Physical Chemistry I |
| BIOB02Y | Basic Microbiology |
| BIOB17Y | General and Comparative Physiology |

* Students should note that if they are going to elect CHMB03Y, they must take PHYA02Y or PHYA03Y and MATA26 or MATA27 or MATA55 as a prerequisite.

**CHMA02Y** General Chemistry
Nuclear chemistry, atomic and molecular structure, ionic solids, bonding in organic compounds; states of matter and equations of state; thermo-chemistry; chemical equilibrium in the gas phase and in solutions; reaction kinetics. Primarily for students who plan to take two or three years of chemistry in a non-specialist science programme or as part of a pre-professional programme. Acceptable for Chemistry Specialist Programmes.

The course quantitatively describes the nature of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, information topics such as introductory organic chemistry are used to round out the course. The course structure is two lectures per week and one four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre.
Prerequisite: Grade 13 Chemistry (or Grade 12 Chemistry and permission of instructor); Grade 13 Functions and Relations
Corequisite: MATA22 or MATA26 or MATA27 or MATA55
Session: Winter Day

**CHMB01Y** Inorganic Chemistry I
Atomic and molecular structure, including energy levels, bonding, electronegativity, lattice energies, heats of formation and hydration. Oxidation state diagrams. Chemistry of hydrides, halogens and selected topics in main group elements.

The further development of the ideas of structure and bonding introduced in CHMA02Y. The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in compound formation. The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements. The course structure is two lectures and one additional period per week to be used for supplementary or remedial work as required.
Prerequisite: CHMA02
Session: Winter Day
*R.H. Morris*

**CHMB02Y** Analytical Chemistry
Introduction to qualitative and quantitative analysis including gravimetric and volumetric analysis, electro-chemical and spectroscopic methods of analysis, separatory techniques.

To introduce the principles and methods of chemical analysis and to provide practical experience in the techniques employed in a chemistry laboratory.

The course consists of three main divisions: qualitative inorganic analysis by wet chemical methods, classical quantitative analysis and modern instrumental quantitative analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques. One hour of lectures and six hours of laboratory per week.
Exclusion: (CHMB08)
Prerequisite: CHMA02
Other recommended courses: CHMB01
Session: Winter Day
*K.A. Henderson*

**CHMB03Y** Physical Chemistry I
Introduction to the kinetic theory of gases, quantum mechanics, theories of chemical kinetics and the laws and applications of thermodynamics.

The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half ends with a treatment of chemical kinetics. In the second half of the course we resort to a thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications to a wide variety of contemporary problems including spontaneous processes, chemical equilibria, phase equilibria, etc. are emphasized. The text is "Physical Chemistry" by P.W. Atkins. The course structure is three lectures a week and occasional tutorials.
Exclusion: PHYB09
Prerequisite: CHMA02; MATA26 or MATA55; PHYA02 (or PHYA01)
Corequisite: MATB41 and MATB42 are strongly recommended but not required. See CHMC02 Physical Chemistry II, however.
Session: Winter Day
*Members of The Physical Chemistry Faculty*

**CHMB05Y** Organic Chemistry I
The chemistry of the principal functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given.

The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. The course structure is two lectures per week and a four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre.
Exclusion: CHMB06
Prerequisite: CHMA02
Session: Winter Day
*T.T. Tidwell*

**JBCB35Y** Introductory Biochemistry
An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics.

Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.

The teaching method will consist of two one-hour lectures per week. The text used is: *Biochemistry: The Molecular Basis of Cell Structure and Function* - by A.L. Lehninger, Worth Publishers Inc.
Prerequisite: BIOA03; CHMB05
Session: Winter Day
*J. Gurd*

**JBCB36H** Laboratory in Biochemistry
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research.

The course will introduce students to practical and theoretical aspects of techniques used in biochemical research, including: spectrophotometry; chromatography; radioisotopes; 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.
Prerequisite: BIOA03; CHMB05
Corequisite: JBCB35
Session: Winter Day
*J. Gurd*

**CHMC01Y** Inorganic Chemistry II
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.
Prerequisite: CHMB01, CHMB02 (or CHMB04)
Corequisite: CHMB08 (if only CHMB04 obtained)
Session: Lectures: Winter Day
Laboratory: Fall Term or Spring Term - One Day
*A. Walker*

**CHMC02Y** Physical Chemistry II
Quantum mechanics and its application to theories of atomic and molecular structure, and spectroscopy. Basic principles of classical and quantum statistical mechanics, statistical thermodynamics, theory of chemical kinetics and photochemistry. The laboratory associated with this course illustrates much of this physical theory and introduces advanced experimental techniques.

The first half of the course emphasizes quantum chemistry and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules are then examined through atomic and molecular spectroscopy. Intermolecular forces and modes of energy transfer between molecules ultimately lead into a study of classical and quantum statistical mechanics through which we interpret the behaviour of microscopic systems. Finally, the basis of modern reaction dynamics will be introduced. The course structure is lectures, tutorial and laboratory.
Prerequisite: CHMB03; MATB41 and MATB42, or MATB50 and MATB55
Session: Lectures: Winter Day
Laboratory: Spring Term - One Day
*Members of the Physical Chemistry Faculty*

**CHMC03Y** Organic Chemistry II
An in-depth treatment of organic reactions and synthesis, stereochemistry and conformational analysis, spectroscopy of organic molecules and reaction mechanisms, and an introduction to aromaticity, photochemistry, free radicals, polymers, organometallic compounds, and the chemistry of naturally occurring molecules such as terpenes, steroids and carbohydrates. This course provides further experience in organic chemistry to students who have completed one course in the subject. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on more advanced techniques, and the use of modern physical techniques and newer synthetic methods.

The course structure is two lectures, one tutorial and one laboratory every week.
Prerequisite: CHMB05
Session: Winter Day

**CHMC45Y** Library Thesis
A report on a selected current topic in chemistry based on literature research and carried out under the direction of one of the chemistry staff. Approximately 260 hours of work are expected.

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.
Exclusion: CHMC47
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Major Programmes.
Session: Summer Day, Winter Day
*Members of the Chemistry Faculty*

**CHMC46Y** Introduction to Research
Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 260 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.
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 Specialist Programmes.
Session: Summer Day, Winter Day
*Members of the Chemistry Faculty*

**CHMC47F/S/H** Library Thesis
Similar to CHMC45 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 conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.
Exclusion: CHMC45
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents and including at least two C-level chemistry courses, and who are pursuing one of the Chemistry Specialist Programmes.
Session: Summer Day, Winter Day
*Members of the Chemistry Faculty*

**CHMC48S** Special Topics in Inorganic Chemistry
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.
Prerequisite: CHMC01
Session: Winter Day
*R.H. Morris, A. Walker*

**CHMC49S** Special Topics in Organic Chemistry
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.
Prerequisite: CHMC03
Session: Winter Day
*Members Of The Organic Chemistry Faculty*

**CHMC50S** Special Topics in Physical Chemistry
A selection of topics in physical chemistry in which recent developments are emphasized.

The content of the course varies from year to year. Examples of topics recently treated include quantum chemistry and theories of elementary chemical reactions. The course structure is two lectures per week.
Prerequisite: CHMC02
Session: Winter Day
*Members Of The Physical Chemistry Faculty*

**Courses not Offered in 1981-82**

**CHMB06Y** Organic Chemistry I
*Exclusion:* CHMB05
*Prerequisite:* CHMA02

**CHMC40F** Kinetics and Mechanism of Chemical Reactions
*Corequisite:* CHMC01; CHMC02; CHMC03

**CHMC41S** Structure and Synthesis of Chemical Compounds
*Corequisite:* CHMC01; CHMC02; CHMC03

**CHMC51S** Special Topics in Synthetic Organic Chemistry
*Corequisite:* CHMC03

# Classical Studies

*Discipline Representative:* A. Boddington
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 source material is handled in translation. But language is an important ingredient in this cultural complex. And for those who wish to see 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.

Students who wish to study the Greek or Latin language should choose the Major Programme in Classical Studies, Greek or Latin. This Programme combines the study of language with other courses on the Classical world. Other students may follow the Major Programme in Classical Civilization which will acquaint them with history, mythology, literature in translation and fine art in the Classical world.

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

1 CLAA01Y Classical Civilization
2 HUMA11Y Greek and Roman Mythology
3 CLAB01Y Greek and Roman Epic
or
CLAB02Y Greek and Roman Tragedy
4 One of
GRHB01Y Greek History from the Bronze Age to the Death of Alexander
GRHB02Y Greek and Roman History from the Death of Alexander to the Gracchi
GRHB03Y Roman History from the Gracchi to Nero
5 One of GRHB25Y - 29Y
6 Three additional full-course equivalents from:
CLA, GRH, GRK, LAT, HUMB22F/S, B23F/S, B24F/S, B25F/S, B34F/S, B36Y, B61F/S, PHLB40F, PHLB41S, PHLB42F, PHLB43S; FARA10F/S, FARB04F/S, FARB05F/S, FARB06F/S. The selection of these must be approved by the Supervisor.

**Major Programme in Classical Studies**
*Supervisor:* M.E. Irwin (Greek)/I.R. McDonald (Latin)
The Major Programme in Classical Studies consists of seven full-course equivalents and may be completed in one of the following ways:

*Classical Studies (Latin):*
1 CLAA01Y Classical Civilization
2 Three full-course equivalents in Latin
3 GRHB03Y Roman History from the Gracchi to Nero
4 Two further full-course equivalents to be selected in consultation with the Supervisor from:
Latin;
GRHB02Y, B24F/S, B28Y, B29Y;
HISB61Y;
CLAB01Y, B02Y, B21Y, B23F/S;
HUMA11Y, B22F/S, B24F/S, B35F/S, B36Y

*Classical Studies (Greek):*
1 CLAA01Y Classical Civilization
2 Three full-course equivalents in Greek*
3 GRHB01Y Greek History from the Bronze Age to the Death of Alexander
4 Two further full-course equivalents to be selected in consultation with the Supervisor from:
Greek;
CLAB01Y, B02Y;
FARA10F/S, B04F, B05S;
GRHB24F/S, B25Y, B26Y;
HUMA11Y, B22F/S, B25F/S, B34F/S, B35F/S, B36Y, B61F/S;
PHLB40F, B41S, B42F, B43S
* Excluding GRKB10Y (and B20Y)

Students who wish to include Latin or Greek as a component in the Language and Literature Specialist Programme must complete seven full-course equivalents as follows:
1 Four full-course equivalents in LAT or four full-course equivalents in GRK
2 CLAB01Y or CLAB02Y
3 Two further full-course equivalents from courses in CLA, GRK, HUM, LAT to be selected in consultation with the Supervisor.

See also the Specialist Programme in *Language and Literature*.

**CLAA01Y** Classical Civilization
An introduction to the Greco-Roman World: the achievements of the Greeks and Romans in literature, philosophy, science and government.

These achievements will be set in an historical framework to enable the evolution of ideas to be traced. The course will not merely be a survey course. Provision has been made as well for study in greater depth in carefully selected areas, with readings, in translation, from the classical authors. Students will be encouraged to choose their own topics for the two term papers which will require research in some depth.

The class will meet three times a week, mainly for lecture presentations, with a seminar every other week in the third hour.
Session: Winter Day
*A. Boddington and Staff*

**CLAB02Y** Greek and Roman Tragedy
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, *Frogs*, and Aristotle, *Poetics*. Selections from Seneca's Roman tragedies will then be studied.

No knowledge of Greek or Latin or of the classical world is assumed.
Session: Winter Evening
*J.R. Warden*

**CLAB21Y** Greek and Roman Religion
A study of religion in the Greek and Roman world.

The course will explore the origins of Greek and Roman religion, the importance of Homer and Hesiod, city cults, popular religion, the spread of eastern religions, the role of religion as a political instrument, and the introduction of Christianity.

There will be one two-hour lecture a week, with opportunities for discussion.
Prerequisite: HUMA11 or CLAA01 strongly recommended.
Session: Winter Day
*M.E. Irwin*

**GRHB01Y** Greek History from the Bronze Age to the Death of Alexander
An introduction to political, economic, social and cultural aspects of Greek history.

The period will be studied, so far as possible, from the Greek authors (in translation) and attention will be given to the discoveries and method of archaeology. The course should be of interest to students of Classics, History, Archaeology, Anthropology and Political Science.

Topics will include: the Bronze Age of Greece and Minoan Crete, with some consideration of why and how those cultures rose and fell; the cultural and artistic "renaissance" of the Greek world; political developments, with special reference to the nature and development of Athenian Democracy and the strange society of Sparta; the Athenian Empire and its relationship to Athenian Democracy; the rise of Macedonia and the conquests of Alexander. To consider how the Greeks viewed their own history, we shall study the Persian Wars as seen through the eyes of Herodotus, and the Peloponnesian War as interpreted by Thucydides; and at all times we shall endeavour to pay the Greeks the compliment of trying to see them as they really were and not as we imagine them.
Session: Winter Day
*A. Boddington*

**GRHB03Y** Roman History from the Gracchi to Nero
A study of the Roman Republic as a social and political organization, and as a "world power", the collapse of the republican system of government and the reconciliation of republican forms with military despotism and increasing bureaucracy. This course will emphasize close study of the primary sources, read in translation.

Students will be introduced to the main issues, problems, and trends in a critical period of world history. Topics will include most or all of the following: the reformist politics of the Gracchi and their associates, the reaction of their opponents, and the political use of violence at Rome; the "military man" in Roman political life; the period of revolutionary change under Julius Caesar and Augustus; the origins and development of the Roman Imperial system; the Principate; Rome as a world state. Emphasis will be placed on helping the student develop a balanced critical judgment, based on respect for evidence and controlled use of the imagination.
Session: Winter Evening
*J. Corbett*

**GRHB24S** Ancient Historiography
A study of the major Greek historians, Herodotus and Thucydides, and the major Roman historians, Livy and Tacitus. All authors will be read in translation. This is not primarily a history course, since the focus will be on the authors, their intellectual world, and their literary merits. The course should be useful to students of Classics, Greek, Roman History, History. It might interest any student of literature.

The following topics will be considered: the development of historiography as a form of expression; its uses and possible abuses; the intellectual and cultural milieu of each author and the nature of its influence upon him; the problems of source criticism; and the literary qualities of the four authors read.

There will be three lecture/discussions per week, in which students are encouraged to take an active part.
Session: Winter Day
*A. Boddington*

**GRHB29Y** Studies in Roman History: Roman Britain
An examination of life and culture in Roman Britain.

This course moves beyond the generalizations of a survey course to ask more penetrating questions about the nature and effect of Roman power and influence as it spread to the western limit of Empire. The Roman literary sources (read in translation) for the geography, conquest, occupation, and administration of Britain are supplemented by a wealth of archaeological material: forts and frontier works; towns and public buildings; houses, tombs and temples; coins, pottery and inscriptions. Working carefully but imaginatively from evidence of both kinds, the student may explore the lives of the native inhabitants and their Roman conquerors: men and women, soldiers and civilians, administrators and insurgents.
Prerequisite: GRHB03 or any other GRH course
Session: Winter Day
*A. Boddington*

**GRKA01Y** Introductory Greek
The bases of the language, with an emphasis on reading.

This course is for students who wish to acquire a basic reading knowledge of *ancient* Greek. The class meets four hours a week. Text: *Reading Greek* (JACT Cambridge, 1978).
Session: Winter Day
*M.E. Irwin*

**GRKA10F** Introduction to Greek Authors
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. Text: *Reading Greek* (JACT Cambridge, 1978).
Prerequisite: Grade XIII Greek or GRKA01
Session: Winter Day
*J.R. Warden*

**GRKB01S** Plato: Apology
A study of *Apology*, Plato's account of Socrates' defense against the charges of religious nonconformity and of corrupting the young. The text will be read in Greek. In addition to the reading of the text, the political, legal and social situation in Athens at the time of the trial will be considered. The course will include exercises to assist the student in further study of the Greek language.

There will be three one-hour meetings weekly in which students will be expected to participate actively by translating and discussing passages of the text.
Prerequisite: GRKA10
Session: Winter Day
*J.R. Warden*

**GRKB10Y** Intermediate Modern Greek
Study of the Modern Greek language, primarily in its written form, with the goal of preparing the student for the reading of Modern Greek literature.
Prerequisite: GRK150 (St. George) unless the student is a native speaker of the language
Session: Winter Day
*G. Papadatos*

**GRKB22Y** Images of Modern Greece: 1936 to the Present
An examination of the social, political and cultural development of modern Greece in the last quarter-century.

This chronological study of one of the most vital moments in modern Greek history will focus first on the time of the Metaxas dictatorship, World War II and the civil war; then on the "boom" years from 1960 to 1967; and lastly on the period from the establishment of the military junta to the present. Analysis of social, economic and political phenomena will be complemented by a detailed study of cultural expression in such

diverse fields as literature, music, theatre, cinema and folklore. Our field of enquiry will include selections from the work of poets, novelists and dramatists such as Seferis, Elytis, Vrettakos, Tachtsis and Kehaidis, of Karolos Koun and the Art Theatre; of seminal composers Theodorakis and Hadjidakis, and their heirs; and of the folklorist Domna Samiou. The final stage of the course will stress developments of the last decade.

Teaching method will include lectures and seminar discussion. Lectures will be given in modern Greek.
Prerequisite: GRKB10
Session: Winter Day
*G. Papadatos*

**GRKB30F-B34F**
**GRKB35S-B39S**
**GRKB40Y** Supervised Reading
Reading of texts in Greek chosen by consultation between students and faculty.

Students who wish to enter the Greek Supervised Reading Programme should enrol in any of the above courses. They should then contact the co-ordinator and discuss what they want to read and with whom. (This will depend to some extent on time available.) The student will meet regularly with the tutor - the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. Problems in the text will be discussed as well as the literary qualities and cultural context of the work being studied.
Prerequisite: GRKB01 or demonstrated competence in reading classical Greek
Session: Winter Day
*Co-ordinator: M.E. Irwin*

**LATA01Y** Introductory Latin
An introduction to the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature.

The course aims to bring the student with no previous knowledge of Latin to a sound basic reading knowledge of prose and poetry. Some time will be given to helping him see the language in its cultural and historical context, and the impact of Latin on English.

Classes are designed to introduce fundamentals of vocabulary, grammar, and syntax, but this routine will be varied occasionally to allow for lectures, discussions, and slides to increase awareness of the cultural milieu.

The text is F.M. Wheelock, *Latin. An Introductory Course Based on Ancient Authors.*
Session: Winter Day
*I.R. McDonald*

**LATA10F** Introduction to Latin Authors
Rapid reading of simple Latin texts, both prose and verse, together with a survey of Roman literature and a consolidation of grammar.

This course serves as an introduction to university-level Latin studies for students with Grade XIII Latin and as a stepping stone to the reading of Latin authors for those who have begun the study of Latin in the College.

Texts to be read will be selected from a wide range of styles and periods to give the student a good general view of the scope and variety of Latin literature.
Prerequisite: LATA01 or Grade 13 Latin
Session: Winter Day
*I.R. McDonald*

**LATB01S** Catullus
A selection of the works of Catullus. The influences which affect Catullus, and his contribution to Latin poetry will be considered.

The material studied will be primarily the love poetry of Catullus but some of the invective works and one of the "long poems" will also be examined. After some introductory lectures most of the classes will be devoted to translating and studying individual poems in the light of critical literature. Students will be expected to participate in these classes. The text used will be the edition of Kenneth Quinn (Macmillan, 1970).
*Prerequisite: LATA10*
Session: Winter Day
*J. Warden*

**LATB30F-33F**
**LATB35S-39S**
**LATB40Y** Supervised Reading
Students who wish to take Latin Supervised Reading courses should enrol in any of the above courses (F/S/Y as appropriate). They should then contact the co-ordinator and discuss with him what they want to read and with whom. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two-hour period; exact arrangements will depend on the nature of the text and level of ability of the student. The purpose of these sessions is to sort out any problems of comprehension, and to discuss the literary qualities and cultural context of the work being read.
Prerequisite: LATB01 (or LATB02)
Session: Winter Day
*Co-ordinator: R. McDonald*

**LATC01F-02S** Independent Studies
These courses are designed to widen students' knowledge of Latin literature beyond those works and authors which have been studied in earlier courses.

A student will be expected to read considerably more than is required in the Supervised Reading courses. The reading may be confined to one author or grouped around a topic or genre. A student who registers for both C01F and C02S may be permitted to present a major essay, on a topic approved by the faculty in Classics, as the work required for C02S. Students will meet regularly throughout the term with a member of the faculty.

N.B. A student interested in Independent Studies should meet with the co-ordinator before enrolling, preferably in the Spring of the preceding year.
Prerequisite: At least two of (LATB21, LATB22), LATB30-31, LATB35-39; permission of instructor.
Session: Winter Day
*Co-ordinator: I.R. McDonald*

**Courses Not Offered in 1981-82**

| | |
|---|---|
| **CLAB01Y** | Greek and Roman Epic |
| **CLAB23F** | Christianity in the Greco-Roman World |
| **GRHB02Y** | Greek and Roman History from the Death of Alexander to the Gracchi |
| **GRHB25Y** | Studies in Greek History I (c. 800-300 B.C.)<br>*Prerequisite:* GRHB01, or any related GRH, CLA or HUM course |
| **GRHB26Y** | Studies in Greek History II (c. 800-300 B.C.)<br>*Prerequisite:* GRHB01, or any related GRH, CLA or HUM course. |
| **GRHB27Y** | Studies in Roman History: Pompeii |
| **GRHB28Y** | Studies in Roman History |

## Commerce

*Assistant Chairman:* A. Stawinoga

Commerce courses are designed both for those students who intend to specialize in the area and for those who wish to take one or more Commerce courses to supplement their studies in other areas. Courses in Commerce should help students to develop the analytical skills needed to diagnose and solve problems in business and government.

Students may take Commerce courses as part of a three or four year degree (normally a B.A. degree) and may, if they wish, work towards completing the Specialist Programme in Commerce and Economics or the Major Programme in Commerce. Graduates of a fifteen or twenty course degree programme may be eligible for admission to graduate study in business or may seek employment in accountancy or pursue other industrial, commercial or governmental careers.

The College does not offer the Bachelor of Commerce (B. 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 enrolment, Scarborough College students should not assume that they will be able to take Commerce courses at that campus where a comparable course is not available at Scarborough.

Admission to Graduate Schools for study towards the Master of Business Administration (MBA) degree is open to all qualified graduates (fifteen or twenty course degrees) regardless of the subjects or disciplines studied at the undergraduate level. Students contemplating graduate study would 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 enrolment 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 the 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 those 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.

**Specialist Programme in Commerce and Economics**

*Supervisor:* A. Stawinoga

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

The Programme requires completion of the following minimum requirements as part of a twenty-course degree:

**1** Six full-course equivalents in Commerce including COMA01, COMB01, JCSB27, JCEB72, JCEB73, JCEC02; (See Note A)

**2** Five full-course equivalents in Economics including ECOA01, ECOB03, ECOB07 and ECOB11;

**3** MATA27 or (MATA26 and MATB41/42) or (MATA55 and MATB50/55); (see Note B)

**4** One full-course equivalent in Computer Science (CSCA56 and CSCA66)or (CSCA58 and CSCA68);

**5** Four additional full-course equivalents from courses other than COM, ECO and JCE.

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

NOTE B: Students who have not taken any of MATA22/A26/A55 prior to the 1981-82 Academic Session, will be required to take MATA27 regardless of when they entered the programme.

**Major Programme in Commerce**

*Supervisor:* A. Stawinoga

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

The Programme requires completion of eight full courses including:

**1** Five full-course equivalents in COM or JCE courses including COMA01 and COMB01 (see Note C)

**2** Two full-course equivalents in ECO courses including ECOA01

**3** JCSB27

NOTE C:

Certain optional advanced courses have prerequisites which are not included in the above requirements.

**Careers in Accountancy**

The College offers a significant number of courses which have been recognised as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Registered Industrial Accountants. A brochure describing the various programmes and listing the recognised Scarborough College courses is available from the Student Services Office (284-3292).

**COMA01Y Financial Accounting**

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.

Session: Winter Day, Winter Evening, Summer Evening

*A. Stawinoga*

**COMB01Y Management Accounting**

An introduction to cost accounting with emphasis on the use of accounting information in managerial decision-making. Topics include types of cost accounting systems, patterns of cost behaviour, problems of cost determination, allocation, budgeting and control.

Prerequisite: COMA01 and ECOA01

Session: Winter Day, Winter Evening, Summer Evening

*H. Babiak*

**JCSB27Y Organizational Behaviour**

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

Prerequisite: One previous course in Sociology, Commerce, Economics, or Political Science

Session: Winter Day, Winter Evening, Summer Evening

*D. Tippin, M. MacKinnon*

**JCEB54S Industrial Relations**

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

Prerequisite: ECOA01

Session: Winter Evening

**JCEB72F 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.

Prerequisite: CSCA56 or CSCA58, MATA40 or MATA22 or MATA26 or MATA27 or MATA55, ECOB03

Corequisite: ECOB11 or GGRB02 or MATB57

Session: Winter Day

**JCEB73S Analysis for Decision Making II**

A continuation of JCEB72F 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.

Prerequisite: JCEB72

Session: Winter Day

**COMC01Y Accounting Theory**

An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation including the problem of changing price levels. Limited enrolment: 60

The course builds extensively on the material in COMA01 and, to a lesser extent, COMB01. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles *prior to* the start of the course.

Prerequisite: COMB01

Session: Winter Day, Winter Evening

*H. Babiak*

**JCEC02Y Corporation Finance**

An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment: 60.

Prerequisite: COMB01; ECOB03; ECOB11

Session: Winter Day, Winter Evening

**COMC04F Principles of Marketing**

Basic concepts and theory of modern marketing management. The course is designed to provide students with a conceptual framework suitable for the analysis of problems facing marketing managers.

The focus is on the basic theories used in understanding and predicting the nature of the marketplace and the development of marketing strategies appropriate for the market. The subjects include: theories of buyer behaviour; the concepts of segmentation and positioning; the role of market research; and the basic elements of the marketing mix - product policy, price policy, promotion policy, and marketing channels. Instruction involves lectures, discussions, and assignments. Limited enrolment: 60.

Exclusion: (COMC03)

Prerequisite: COMB01. ECOB11 is recommended.

Session: Winter Day

**COMC05S Introduction To Marketing Management**

A pragmatic case and readings oriented approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations. Limited enrolment: 60.

Exclusion: (COMC03)

Prerequisite: COMC04. ECOB11 is recommended.

Session: Winter Day

**COMC15Y Income Tax**

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

Prerequisite: Completion of at least ten courses including COMA01 and ECOA01

Session: Winter Evening

*R.C. Gibson*

**COMC30Y** *The Legal Environment of Business*
An intensive examination of those aspects of the law that most directly affect the operations of a business. Limited enrolment: 60.
Prerequisite: Completion of at least ten courses including COMA01 and ECOA01
Session: Winter Day
*L.A. Torkin, J. Feldman*

**JCEC40S** Public Policy Towards Business
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.
Prerequisite: ECOB41
Session: Winter Day
*R. Saunders*

**COMC50F** Advanced Accounting
Consideration of accounting practice in the context of accounting theory and concepts for a number of areas including intercorporate investments, foreign currency translation, deferred taxes and accounting for general purchasing power. Limited enrolment: 60.
Prerequisite: COMC01 and permission of instructor
Session: Winter Evening
*H. Babiak*

**COMC60S** Auditing
An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor. Limited enrolment: 60.
Prerequisite: COMC01
Session: Winter Evening

*Discipline Representative:* W. Enright
Computer Science is the study of the use of computers to process information. The form of this information may vary widely, from the businessman's records, to the scientist's experimental results, to the linguist's texts. One of the fundamental concepts in computer science is the algorithm - a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related is the development of tools to foster these goals: programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms. Numerical analysis, data management systems, and artificial intelligence are concerned with the applications of computers to specific problem areas. Course offerings are intended to serve a wide variety of students.

The Specialist Programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare him for graduate study. The Specialist Programme in Computer Science for Data Management is intended for students who plan to pursue a career in information systems development, 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.

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

Students who wish to study computing primarily in order to use the computer in their own specialties should begin with CSCA56F and CSCA66S. JMCC51S and CSCB08S are then available, as are CSC218 and 300, given on the St. George campus.

Students should also look at JMCC31F, JMCC32F and JMCC51S which are additional Computer Science courses.

**Specialist Programme in Computer Science**
NOTE: Beginning in 1982-83, registration in this programme will be limited in any year to twenty students. Selection will be based on grades in first year courses in Computer Science and Mathematics.
*Supervisor:* W. Enright
There are ten and one-half courses required for the Specialist Programme in Computer Science. Note that the courses need not be taken in exactly the indicated order, but if an alternate ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

*First year:*
CSCA58F, CSCA68S, MATA26/MATA55, MATA40F, MATA45S

*Second year:*
CSCB68F, CSCB73F, CSCB28S, (MATB41F and MATB42S) or (MATB50F and MATB55S)

*Third year:*
CSCC34F, JMCC51S, MATC44F, STAB52F, STAB57S, MATC51F or MATC60F or MATB40F

*Third or fourth year:*
Two full-course equivalents to be chosen from the following options:
(Note that only CSCC44F and CSCC64S are available at Scarborough; the remaining courses must be completed at the St. George campus).
Any two of CSC438F, 441S, 446S, 451F, CSCC48S/CSC448S, CSCC64S (including at least one of 438F, CSCC48S/CSC448S and CSCC64S), and any two of CSCC44F, CSC340S, 434F, 444S, 458S, 468F, 474S, 484F.

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

**Specialist Programme in Computer Science for Data Management**
NOTE: Beginning in 1982-83, registration in this programme will be limited in any year to twenty students. Selection will be based on grades in first year courses in Computer Science and Mathematics.
*Supervisor:* W. Enright
There are thirteen courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in a different order, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

*First year:*
CSCA58F, CSCA68S, MATA26 or (MATA55 and MATA40F), COMA01, ECOA01

MATA40F will be required later in the programme if the option MATA26 is chosen.

*Second year:*
CSCB68F, CSCB73F, CSCB28S, ECOB03Y/ECOB07Y, (MATB41F and MATB42S)/(MATB50F and MATB55S)

*Third year:*
CSCC34F, COMB01, MATA40F, STAB52F, STAB57S

*Third or fourth year:*
Two and one-half full-course equivalents to be chosen from the following options:
(Note that JMCC51S, MATC44F, CSCC44F and CSCC64S are offered at Scarborough, while the remaining courses must be completed at the St. George campus).

Any two of MATC44F, CSC448S/CSCC48S, JMCC51S, CSCC64S, CSC438F and any three of CSCC44F, CSC340S, 434F, 444S, 458S, 468F, 474S, 484F.

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

**Major Programme in Computer Science**
NOTE: Beginning in 1982-83, registration in this programme will be limited in any year to thirty students. Selection will be based on grades in first year courses in Computer Science and Mathematics.
*Supervisor:* W. Enright
Seven and one-half full-course equivalents are required. The courses need not be taken in the order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

*First year:*
CSCA58F, CSCA68S, MATA26Y/MATA55Y, MATA40F

*Second year:*
CSCB68F, CSCB73F, (MATB41F and MATB42S)/(MATB50F and MATB55S)

*Third or fourth year:*
A total of six half-courses chosen as follows:

(i) at least two of CSCB28S, CSCC34F, CSCC44F, CSC340S, CSC434F, CSC444S, CSC458S, CSC468F, CSC474S, CSC484F

(ii) at least two of MATC44F, JMCC51S, CSCC64S, JMCC31F, JMCC32F, CSC438F, CSC448S, CSC441S, CSC446S, CSC451F, CSC478S

(iii) at most two of CSCB08S, CSC218F, CSC300F/S

**CSCA56F/S/H Computer Programming**
Introduction to algorithms, computer organization and computer programming. Emphasis is on learning to programme 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 PL/1 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 both to machines and to other people, is emphasized. In the second six weeks sample problems from several application areas are studied to demonstrate the variety of problems that are solved with the aid of the computers.
Exclusion: CSCA58
Prerequisite: One grade 13 course in Mathematics
Session: Winter Day, Winter Evening, Summer Evening
*Members of Computer Science faculty*

**CSCA58F Introduction to Computing**
The specification and formulation of algorithms. Introduction to computer organization and assembly language. Programming in a high-level language such as PL/C. Structured programming. Elementary applications.

The PL/C programming language is used as a vehicle for the formulation and implementation of correct, lucid, 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.
Exclusion: CSCA56
Prerequisite: Grade 13 Functions and Relations, or Grade 13 Calculus
Corequisite: MATA26 or MATA55
Session: Winter Day
*Members of Computer Science faculty*

**CSCA66S Programming Applications**
Practical approaches to solving problems involving data structures, non-numerical applications and data processing. The course also covers recursive programming.

This course is a continuation of CSCA56 and it covers sample problems from several areas. Particular emphasis is placed on business applications.
Exclusion: CSCA68
Prerequisite: CSCA56 or CSCA58
Session: Winter Day
*Members of Computer Science faculty*

**CSCA68S Problem Solving With Computers**
A continuation of CSCA58. The application of computers to various numerical and non-numerical problems. Topics will include numerical methods, simulations, graph theory, data processing, and the validity 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.
Exclusion: CSCA66
Prerequisite: CSCA58
Corequisite: MATA26 or MATA55
Session: Winter Day
*Members of Computer Science faculty*

**CSCB08S Assembly Language Programming and Applications**
Introduction to assembly language programming, program segmentation and subroutine linking. Macro definition and use will also be covered.

The purpose of this course is to provide a detailed and thorough exposure to the problems of flow of control and representation of data and instructions in a computer. The course structure is two hours of lecture and one of tutorial per week.
Prerequisite: CSCA66 or CSCA68
Session: Winter Day

**CSCB28S Programming Techniques for Data Processing**
This course is intended to examine 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 programme design including: decision tables, if applicable programming and table driven logic; sequential file processing including: data validation, external sorting, generalised file processing systems. Some applications 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.
Prerequisite: CSCA68
Session: Winter Day

**CSCB68F Programming Languages and Their Applications**
Programming languages and applications. The syntax and semantics of various programming languages, including both algebraic and symbol 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, SNOBOL, LISP will be discussed in detail, and their features will be compared. Other languages will also be discussed.
Prerequisite: CSCA68
Session: Winter Day

**CSCB73F 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.

Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogrammed machine, basic data representation, assembler 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.
Prerequisite: CSCA68
Session: Winter Day

**JMCC32F Graph Theory and Algorithms for its Applications**
Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank form scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.
Prerequisite: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science.
Session: Winter Day

**CSCC34F Data Structures**
This course is designed to teach students that care taken in representation of information can lead to improvements in the quality of programmes. A selection of topics will be used to illustrate approaches to choosing a data structure and associated algorithms.

Specific topics include: basic data types and their representation, sequences, graphs and basic graph algorithms, representation of trees and heaps, internal and external sorting algorithms, search aiding structures: trees, dictionaries and hash tables, file structures, data base systems. The course structure is lectures and tutorials.
Prerequisite: CSCB68
Session: Winter Day

**CSCC44F Problem-Oriented Languages and Interpreters**
This course is designed to give students insight into the workings of a programming language processor. It will motivate 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 analysis and parsing algorithms, specification of semantics and code generation, the run-time organization of the language processor, storage allocation. The SNOBOL 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.
Prerequisite: CSCB28, CSCB73, CSCB68
Session: Winter Day

**JMCC51S** Numerical Methods
Numerical methods and their implementation on a computer. Solution of linear and non-linear equations. Ill conditioned problems and error estimates. Numerical integration and solution of initial value problems for ordinary differential equations.

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 programmes.

Eight or nine assignments will be given.

The language of the packaged programmes is FORTRAN, for which a brief review will be given.
Exclusion: (MATB53)
Prerequisite: MATA40, MATB42 or MATB55, CSCA68
Session: Winter Day

**CSCC64S** Effective and Efficient Computing
Introduction to the theory of computation: computable functions, turing machines, recursive and primitive recursive functions, unsolvable problems, and Church's thesis. Introduction to Logic: propositional calculus, predicate calculus, and program correctness. Introduction to complexity theory: models of computation, classes P and NP, techniques for efficient algorithms, NP-complete problems, and heuristic algorithms.
Prerequisite: MATC44 or MATA45 or MATB42
Session: Winter Day

**Courses Not Offered in 1981-82**

**JMCC31F** Combinatorics
*Prerequisite:* (MATB40) and at least one other B-level course in Mathematics or Computer Science

**Courses Not Offered in 1982-83**

**JMCC32F** Graph Theory and Algorithms for its Applications
*Prerequisite:* MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science

# Co-operative Programme in Administration

*Director:* A.P. Simmie
*Assistant to the Director:* Joan Bunyan
*Co-ordinator:* Kim N. Humphries

The Co-operative Programme in Administration is designed to assist students
- to understand the governmental decision process at all levels in Canada
- to learn and use methods for the efficient allocation of scarce resources in government and business
- to develop and evaluate public policies and manage programmes which deal with complex social, economic, political and business problems
- to appreciate the behavioural implications of human and group interaction

The Programme prepares students for permanent employment in government, regulatory agencies, crown corporations and business enterprises while providing students with the alternative of graduate work in the social sciences or professional schools of law, management, public administration, planning or social work. Graduates receive a four-year B.A. with a Specialist in Administration.

The basic principle of co-operative 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.

*Admission to the Programme*
Students apply directly to the Co-operative Programme office for admission and can be considered only if they have been admitted to Scarborough College and the University of Toronto. Admissions are considered in May and June of each year. Our admissions procedure will include an evaluation of potential interest and ability in Administration and a letter of reference from a high school teacher or university instructor will be required from each applicant. Enrollment in the programme is limited and only a small proportion of applicants can be accepted each year.

Students may apply to enter the Co-op Programme following completion of Grade 13 or equivalent, or one year of univeristy studies. Admissions decisions follow a review of each student's high school and university curriculum, looking in particular for accomplishment in both quantitative and verbal skills.

For students applying from Grade 13, an appropriate Grade 13 curriculum would include at least one course from Functions and Relations, Algebra and Calculus and at least three courses from the following areas of studies: English, History and Humanities. Prior study in any of the social sciences is not required.

University students interested in Administration are encouraged to apply whether or not they have completed any part of the first year curriculum. The timing of their first work placement will depend upon which parts of the curriculum they have completed.

Students already holding an undergraduate degree are recommended to pursue graduate programmes in Business Management or Public Administration.

**Specialist in Co-operative Programme in Administration**

*Supervisor:* A.P. Simmie
The Programme combines eight four-month terms of study at Scarborough College with four terms of work experience and two "off" terms, typically over a five year period. During work terms students serve in positions in government or government-related business that are arranged by the Programme but won by students in competition with co-op students from other universities.

The Programme requires four work terms, with a fifth term optional with the agreement of the Co-ordinator. Each student's work term experience is evaluated by two processes: firstly, the employer, along with the Co-ordinator, completes a detailed performance review which evaluates the student's work skills, abilities and interests; secondly, the student prepares and submits a work term report in which he/she integrates the knowledge gained on the placement with the academic study that he/she has completed. The work term reports are evaluated by at least one member of the faculty of Scarborough College. Satisfactory performance in placements, as measured by the employer, Co-ordinator and faculty member is a requisite to being given credit for a placement and continuation in the Programme.

To maintain standing in the Co-op Programme each student must complete at least four full-course equivalents each year and maintain an overall GPA of 2.5 in all courses. To be entitled to compete for the first work term, (usually in the second year of study) a student must have completed seven full-course equivalents including COMA01, ECOA01, HISB02 or HISB03 or HISB04 and POLB50. To qualify for the second work term a student must have completed nine full-course equivalents including COMB01, JCSB27, ECOB03 and POLB60. To qualify for the third work term, a student must have completed eleven full-course equivalents including the core statistics requirement. To qualify for the fourth work term, a student must have completed thirteen full-course equivalents.

The successful practice of administration demands certain basic skills irrespective of the institutional setting - public sector, private sector, not-for-profit sector - the nature of the responsibility - management or policy analysis. The curriculum is designed to develop these basic skills in every student and is divided into two components: core courses and advanced options. Students select courses as follows:

**A** *Core Courses* in Behavioural Foundations, Public Policy Evaluation, Historical and Cultural Foundations and Management: every student selects eleven full-course equivalents as prescribed.

**B** *Advanced options* in Policy Analysis, Economic Policy, Evaluation of Social Issues, Urban and Regional Policy Analysis, and Programme Management. Based upon his career goals, personal skills and interests each student selects one of these options which involves a set of up to four and one-half full-course equivalents directed to advanced study in an area of administrative practice. Typically the choice of an advanced option need not be made until the third year.

The first two years of study for co-op students follow:
*First Year:* COMA01, ECOA01, HISB02 or HISB03 or HISB04, JCSB27 or MATA27, POLB50
*Second Year:* COMB01, ECOB03, POLB60, two full-course equivalent electives; one work term

Each student's curriculum will require the approval of the Supervisor. Advanced courses of interest to students offered by Commerce, Computer Science, Economics, Geography, Mathematics and Psychology impose rigid patterns of prerequisites and students must plan their courses with considerable care.

Every student in the Co-op Programme is required to pay an additional fee as established by Scarborough College.

**A Core Courses**: *eleven full-course equivalents*, to be selected as follows:

I *Behavioural Foundations* (two full-course equivalents)

Required:

| | |
|---|---|
| JCSB27Y | Organizational Behaviour |

one full-course equivalent from:

| | |
|---|---|
| POLB65Y | Political Behaviour |
| POLB66Y | Psychology and Politics |
| POLC65F/S | Topics in Political Leadership |
| PSYB10F/S | Introduction to Social Psychology |
| PSYB11F | Social Psychology Laboratory |
| SOCB04Y | Political Sociology |
| SOCC13F/S | Industrial Sociology |
| SOCC07S | Sociology of Occupations and Professions |

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

Required:

| | |
|---|---|
| ECOA01Y | Introduction to Economics |
| ECOB03Y | Price Theory |
| POLB50Y | Canadian Government and Politics |
| POLB60Y | Public Administration |

one of:

| | |
|---|---|
| ECOB32F | Economics of the Public Sector: Expenditures |
| ECOB35F | Public Decision Making |

III *Historical and Cultural Foundations* (two full-course equivalents)

To be selected from the curricular offerings of the Humanities Division at least one of which must be:

| | |
|---|---|
| HISB02Y | Britain from the 18th Century to the Present |
| HISB03Y | History of the United States |
| HISB04Y | Introduction to Canadian History |

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

Required:

| | |
|---|---|
| COMA01Y | Financial Accounting |
| COMB01Y | Management Accounting |

one half full-course equivalent from:

| | |
|---|---|
| ECOB11F/S | Quantitative Methods in Economics |
| ECOB12S | *Quantitative Methods in* Economics: Applications |
| GGRB02Y | Analytical and Quantitative Methods in Geography |
| STAB52F | Probability and Statistics I |
| STAB57S | Probability and Statistics II |
| PSYB07F | Data Analysis in Psychology |
| PSYB08S | Experimental Design in Psychology |
| SOCB06F | Social Statistics |

**B Advanced Options**: Students must choose one of the following categories:

I *Policy Analysis* (three full-course equivalents)

*a* two full-course equivalents from:

| | |
|---|---|
| POLB53Y | Public Policies in Canada |
| POLC60F | Administrative Politics |
| *POLC61S* | *Policy Development* |
| POLC62F/S | Organized Interests and the State |

*b* one half full-course equivalent from:

| | |
|---|---|
| POLB51F/S | Government and Politics in Ontario |
| POLB54F | Intergovernmental Relations |

*c* one half full-course equivalent from:

| | |
|---|---|
| ECOB07Y | Macroeconomic Theory and Policy |
| ECOB12S | Quantitative Methods in Economics: Applications |
| ECOB31S | Economics of the Public Sector: Taxation |
| ECOB35F | Public Decision Making |
| ECOB41S | Industrial Organization |
| GGRB27F | Development Principles I |

II *Economic Policy* (four full-course equivalents)

*a* Required:

| | |
|---|---|
| ECOB07Y | Macroeconomic Theory and Policy |
| ECOB12S | Quantitative Methods in Economics: Applications |

*b* one and one-half full-course equivalents from:

| | |
|---|---|
| ECOB31S | Economics of the Public Sector: Taxation |
| ECOB32F | Economics of the Public Sector: Expenditures |
| ECOB41F | Industrial Organization |
| ECOC08S | Econometrics |
| JCEC40S | Public Policy Towards Business |

*c* one full-course equivalent from:

| | |
|---|---|
| POLB53Y | *Public Policies in Canada* |
| POLC60F | Administrative Politics |
| POLC61S | Policy Development |
| POLC62F/S | Organized Interests and the State |

III *Evaluation of Social Issues* (four and one-half full-course equivalents)

*a* Required:

| | |
|---|---|
| SOCB01Y | Methods in Social Research |
| SOCB05Y | Urban Sociology |
| SOCC06F/S | Applied Sociology |
| *PSYB08S* | Experimental Design in Psychology |

*b* one half full-course equivalent from:

| | |
|---|---|
| COMC04F | Principles of Marketing |
| COMC05S | Introduction to Marketing Management |
| SOCB23Y | Population |
| SOCC07S | Sociology of Occupations and Professions |
| SOCC11F/S | Sociology of Law and Law Enforcement |
| SOCC13F/S | Industrial Sociology |

*c* one full-course equivalent from:

| | |
|---|---|
| ECOB37S | Law and Economics |
| POLB53Y | Public Policies in Canada |
| POLC61S | Policy Development |
| POLC62F/S | Organized Interests and the State |

IV *Urban and Regional Policy Analysis* (four and one-half full-course equivalents)

*a* Required:

| | |
|---|---|
| GGRA04Y | The Nature of Human Geography |
| GGRB02Y | Analytical and Quantitative Methods in Geography |
| GGRB05Y | Urban Geography |
| GGRB27F | Development Principles I |
| GGRB28S | Development Principles II |

*b* one full-course equivalent from:

| | |
|---|---|
| ECOB47S | Urban Economics |
| GGRC04F | *Urbanization and Residential Geography* |
| GGRC18F | Urban Transportation Policy Analysis |
| GGRC31S | Development and Planning of Metropolitan Regions |
| POLB88Y | *Urban Politics* |
| POLC60F | Administrative Politics |
| POLC61S | Policy Development |
| SOCC26F | Sociology of Urban Growth |

V *Programme Management* (four and one-half full-course equivalents)

*a* two full-course equivalents from:

| | |
|---|---|
| COMC04F | Principles of Marketing |
| COMC05S | Introduction to Marketing Management |
| JCEC02Y | Corporation Finance |
| JCEB72F | Analysis for Decision Making I |
| JCEB73S | Analysis for Decision Making II |

*b* Required: one of:

| | |
|---|---|
| ECOB12S | Quantitative Methods in Economics: Applications |
| PSYB08S | Experimental Design in Psychology |

*c* one half full-course equivalent from:

| | |
|---|---|
| POLC60F | Administrative Politics |
| POLC62F/S | Organized Interests and the State |

*d* one and one-half full-course equivalents from:

| | |
|---|---|
| CSCA56F | Computer Programming |
| CSCA58F | Introduction to Computing |
| CSCA66S | Programming Applications |
| CSCA68S | Problem Solving with Computers |
| CSCB28S | Programming Techniques for Data Processing |
| ECOB41F | Industrial Organization |
| JCEC40S | Public Policy Towards Business |
| SOCC07S | Sociology of Occupations and Professions |
| SOCC13S | Industrial Sociology |

including at least one half-course from Computer Science.

# Drama

*Discipline Representative:* M.Q. Schonberg
The Drama courses at Scarborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject.

At present we offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of the theatre from a non-literary point of view from its classical beginnings to the present day. These courses are augmented by courses in the dramatic literatures of several countries which are offered by members of the faculty who specialize in these areas.

Advanced students may choose an Independent Studies course or Directed Reading course, where they work individually under the supervision of their own tutors.

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

**Specialist Programme in Drama**
*Supervisor:* M.Q. Schonberg
A student is required to complete twelve full-course equivalents, ten in the area of Dramatic Literature and Theatre, and two in related disciplines, as follows:

1 DRAB01Y An Introduction to the Practical Elements of Theatre
2 DRAB03Y The History of Theatre I
3 DRAB04Y The History of Theatre II
4 ENGB11Y Varieties of Drama
5 ENGB31Y Modern Drama
6 Two full-course equivalents chosen from the following:
CLAB02Y Greek and Roman Tragedy
ENGB04Y* English Poetry and Drama 1660-1800
ENGB10Y Shakespeare
ENGB12Y* English Drama to 1642
ENGC28F/S* Drama in English Canada 1920-1970
FREB29F/S* French Drama of the Eighteenth Century
FREB30F* French Theatre of the Early Modern Period
FREB31S* Contemporary French Theatre: The Theatre and the Absurd
FREB39F/S* Workshop in Modern French Theatre
FREB41F/S* French Classicism: The Theatre
JHGB50Y (GERB40Y) The Development of German Drama (in translation)
GERB63F* (GERB16Y) Nineteenth Century Drama
GERB70S* (GERB03Y) Twentieth Century Drama
HUMB70Y Introduction to Cinema
ITAB27F* Modern Italian Theatre from Pirandello to the Present
ITAB35F/S* Italian Sixteenth Century Theatre
ITAB41F/S* Italian Eighteenth Century Theatre
(SPAB23Y) Spanish Drama
JSDB24F Golden Age Drama
* Students should check these courses for prerequisites
7 Three full-course equivalents chosen from the following (of which *two* must be at the C-level, *and no more than two* may be chosen from DRAC10-C28).
DRAB02Y The Directors' Theatre
DRAB05Y The Art and Nature of Comedy
DRAB10B Improvisional Theatre: Commedia dell'Arte
DRAB12B Medieval and Early Tudor Drama: The Texts and Their Production
DRAB13B The Victorian Theatre
DRAC01Y Advanced Practical Workshop and Elements of Directing
DRAC10Y** Individual Studies in French Theatre and Drama in Translation
DRAC11Y** Individual Studies in German Threatre and Drama in Translation
DRAC12Y** Individual Studies in Italian Theatre and Drama in Translation
DRAC13Y** Individual Studies in Russian Theatre and Drama in Translation
DRACI4Y** Individual Studies in Spanish Theatre in Translation
DRAC20Y*/
DRAC2IY*/
DRAC22Y*/
DRAC23Y*/
DRAC24Y*/
DRAC25F*/
DRAC26S*/
DRAC28S* Supervised Reading Courses
The student may take only one of the Individual Studies courses in any single academic year.
8 Two full-course equivalents chosen from the following:
ANTA01Y Introduction to Anthropology
ANTA03Y Cultures in the Modern World
ANTB02Y* Anthropological Study of Religion
ANTB23Y Comparative Mythology
CLAB01Y Greek and Roman Epic
ENGA01Y (ENGA04Y) English Literature: Practical Criticism and Interpretation
ENGA08Y Twentieth Century Literature
(FARA03Y) Aspects of Western Culture from the Renaissance to Modern Times
HISA01Y The European World: An Introduction to History
HUMA0IY Prologue
HUMA11Y Greek and Roman Mythology
LINA01Y General Linguistics
LINA04F/S Introduction to Language
MUSA01Y Introduction to Music
PHLB03F Philosophy and Art
PSYA01Y Introduction to Psychology
SOCA01Y Introduction to Sociology
* Students should check these courses for prerequisites
** Prerequisite ten full-course equivalents
NOTE: No more than ten full-course equivalents in DRA are permitted in the four-year degree.

**Major Programme in Drama**
*Supervisor:* M.Q. Schonberg
A student is required to complete six full-course equivalents in the area of dramatic literature and theatre. The following four courses comprise the core of the programme:
DRAB01Y An Introduction to the Practical Elements of Theatre
DRAB03Y History of Theatre I
DRAB04Y History of Theatre II
ENGB11Y Varieties of Drama
In addition, the student must take two full-course equivalents, one from group A and one from group B, but no more than two courses from DRAC10-C28 may be taken within the three-year degree.

*Group A*
DRAC01Y Advanced Practical Workshop and Elements of Directing
DRAC10Y** Individual Studies in French Theatre and Drama in Translation
DRAC11Y** Individual Studies in German Theatre and Drama in Translation
DRAC12Y** Individual Studies in Italian Theatre and Drama in Translation
DRAC13Y** Individual Studies in Russian Theatre and Drama in Translation
DRAC14Y** Individual Studies in Spanish Theatre in Translation
DRAC20Y*/
DRAC21Y*/
DRAC22Y*/
DRAC23Y*/
DRAC24Y*/
DRAC25F*/
DRAC26S*/
DRAC27F*/
DRAC28S* Supervised Reading Courses

*Group B*
CLAB02Y Greek and Roman Tragedy
DRAB02Y The Directors' Theatre
DRAB05Y The Art and Nature of Comedy
DRAB10B Improvisational Theatre: Commedia dell'Arte
DRAB12B Medieval and Early Tudor Drama: the Texts and their Production
DRAB13B The Victorian Theatre
ENGB04Y* English Poetry, Prose and Drama 1660-1800
ENGB10Y Shakespeare
ENGB12Y* English Drama to 1642
ENGC28F/S* Drama in English Canada 1920-1970
ENGB31Y* Modern Drama
FREB29F/S* French Drama of the Eighteenth Century
FREB30F* French Theatre of the Early Modern Period
FREB31S* Contemporary French Theatre: the Theatre and the Absurd
FREB38F/S* The Theatre of French Canada
FREB39S* Workshop in Modern French Theatre
FREB41F/S* French Classicism: The Theatre
JHGB50Y The Development of German Drama (in translation)
GERB63F* Nineteenth Century Drama
GERB70S* Twentieth Century Drama
HUMB70Y Introduction to Cinema
ITAB27F* Modern Italian Theatre from Pirandello to the Present Day
ITAB35F/S* Italian Sixteenth Century Theatre
ITAB41F/S* Italian Eighteenth Century Theatre
JSDB24F* Golden Age Drama
* Students should check these courses for prerequisites.
** Prerequisite ten full-course equivalents

**DRAB01Y** An Introduction to the Practical Elements of Theatre
An introductory practical course, concentrating on the non-literary aspects of theatre.

In the workshops the student will study basic acting techniques (rudiments of voice, movement, script interpretation, building a character), and will also 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 production each term.

Three two-hour workshops per week, plus additional time as necessary for rehearsals and/or production meetings etc.

Careful preparation for each of the workshops is essential. Lab fee $25.00
Session: Winter Day
*L.L. Browne*

**DRAB02Y** The Directors' Theatre
A study of the theoretical statements and practical work of directors from 1860-1960.

The course will explore the work of famous theatrical companies and directors of the nineteenth and twentieth centuries, including such personalities as the Duke of Saxe-Meiningen, Andre Antoine, Constantin Stanislavsky, Gordon Craig, David Belasco, Jacques Copeau, Max Reinhardt, Bertolt Brecht, Jean-Louis Barrault, Peter Brook and Jerzy Grotowski.

There will be one two-hour class weekly which will include lectures as well as seminars, and extensive use of visual materials. Students will prepare individual projects related to the work of specific directors and theatres.

Bibliography: Cole, Toby and Chinoy, Helen Krich, ed. *Directors or Directing*. Jerzy, Grotowski. *Towards a Poor Theatre*, (published Simon and Schuster). Brook, Peter. *The Empty Space*. (published by Avon). Gorelik, Mordecai. *New Theatre for Old*. Other texts TBA.
Session: Winter Day
*L.L. Browne*

**DRAB03Y** The History of Theatre I
A study of the non-literary aspects of theatre from the pre-Hellenistic period to the end of the eighteenth 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; Elizabethan and Jacobean drama; the theatre of the Baroque; Neo-classicism. Acquaintance with representative plays of the various periods will be required. 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 Oscar Brockett. Representative plays will be announced.
Session: Winter Evening
*M.Q. Schonberg*

**DRAB10B** Improvisational Theatre: The Commedia dell'Arte
The course will consist of a theoretical and historical examination of the practices of improvisational theatre with special emphasis given to the Commedia dell'Arte. A detailed study of its background, conventions, characters, and its subsequent incorporation into 'legitimate' theatre, as well as its revival and modern applications will be studied in lectures and seminars. The practical half of the course will be directly related to the theory, and will consist of workshops in movement, mime, make-up, mask making, and preparation of scenarios. The workshops will culminate in a production of a play in the dell 'Arte style at the end of the session. Bibliography will include Pierre Duchartre, *The Italian Comedy*. Other texts will be announced.

There will be four three-hour sessions per week from 6:00 p.m. to 9:00 p.m. Lab Fee $30.00.
Session: Summer Evening (see The 1981 Summer Arts Brochure).
*L.L. Browne*

**JSDB24F** Golden Age Drama
The Drama of the Spanish Golden Age, sixteenth and seventeenth centuries.

The main topics of study in this course will be: a) a résumé of Spanish Drama before the sixteenth century and Spanish dramatic theory; b)the *entremeses* of interludes of Cervantes; c) the stage in the Golden Age; and d) the major dramatists of the period: Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca. Although emphasis will be placed on the literary analysis of the plays, "practical" aspects, such as the editing of a text for staging, the unreliability of translations, stage design, costumes, etc. will be considered. One or more plays, or scenes from plays, will be staged. Video tapes of professional productions will be shown and discussed. No knowledge of Spanish language is required. However, students majoring in Spanish please see Programme requirements.

There will be two hours of lecture discussion and one hour seminar per week. Additional hours will be arranged for tutorials, play staging etc.
Exclusion: (SPAB24)
Session: Winter Day
*P. León*

**DRAC01Y** Advanced Practical Workshop and Elements of Directing
This course is designed to enable advanced students to concentrate on problems related to the staging and direction of plays in studio situations.

A portion of the course is devoted 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, scenework, and work on productions.

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

Lab fee $25.00.
Prerequisite: DRAB01
Session: Winter Day
*M.Q. Schonberg*

**DRAC10Y** Individual Studies in French Theatre and Drama in Translation
Individuals will study under the supervision of members of the French discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the French discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisite: At least ten full course equivalents, two of which must be DRAB03 and DRAB04. This course is intended for students specializing in Drama who are not sufficiently fluent in French/German/Italian/Russian/Spanish to read the works in the original language. Permission of Supervisor required.
Session: Winter Day
*M.Q. Schonberg*

**DRAC11Y** Individual Studies in German Theatre and Drama in Translation
Individuals will study under the supervision of members of the German discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the German discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisite: Same as for DRAC10
Session: Winter Day
*M.Q. Schonberg*

**DRAC12Y** Individual Studies in Italian Theatre and Drama in Translation
Individuals will study under the supervision of members of the Italian discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Italian discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisite: Same as for DRAC10
Session: Winter Day
*M.Q. Schonberg*

**DRAC13Y** Individual Studies in Russian Theatre and Drama in Translation
Individuals will study under the supervision of members of the Russian discipline.

This course is designed primarily for students specializing in Drama who may not have adequate command of the language to study all the texts in the original.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Russian discipline, and the Drama Supervisor.

In this course the emphasis will be on the student's individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisite: Same as for DRAC10
Session: Winter Day
*M.Q. Schonberg*

**:14Y** Individual Studies in Spanish The-
ı Translation
ourse is intended for students in the
alist Programme in Drama who do not have
ıate knowledge of the Spanish language to
le to work with original texts.
ı specific content of the course and the
ɔd of evaluation will be arranged in consul-
between the student, a member of the
sh discipline, and the Drama Supervisor.
ıis course emphasis will be on the student's
dual initiative, with the faculty member act-
tutor rather than lecturer.
quisite: Ten full course equivalents and
ssion of Supervisor.
ɔn: Winter Day
Schonberg

**:20-24Y**
**:25F, C26S**
**:27F, C28S** Supervised Reading Courses
ı an advanced reading course for drama
nts. The student wishing to take this course
d consult with M.Q. Schonberg, the Pro-
ne Supervisor, who will arrange in co-oper-
with the student a reading list and set the
fic requirement for the course.
emphasis in this course will be on
ıced individual projects exploring specific
of the history of theatre, and/or dramatic
ure. Proposals by students for specific pro-
will be assessed by the Supervisor in con-
on with other members of faculty.
quisite: One B-level full-course equivalent
ma, and permission of instructor.
ɔn: Winter Day
Schonberg

**ıes Not Offered in 1981-82**

**104Y** The History of Theatre II
**105Y** The Art and Nature of Comedy
**112B** Medieval and Early Tudor Drama: The Texts and their Production
**113B** The Victorian Theatre

*Assistant Chairman:* A. Berry
The Economics curriculum offers a wide variety of both theoretical and applied courses. The curriculum provides an excellent background for careers in business, government, and the professions. Many of the courses are not intended exclusively for specialists in the discipline but can be of value to students with very diverse interests.

There are certain courses which are central to the curriculum: the introductory course (ECOA01); the initial B-level courses - Price Theory (ECOB03) and Macroeconomic Theory and Policy (ECOB07); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECOB81, ECOB82), the Literature of Economics (ECOB20, ECOB21), Comparative Economic Systems (ECOB68). A student who wants 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 Theory, and Linear Algebra).

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

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

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

Students must complete at least nine full-course equivalents as specified below and not more than fourteen full-course equivalents in Economics. The following specific courses must be included as part of the nine-course minimum.
ECOA01Y
CSCA56F or CSCA58F
MATA27Y or MATB41F or MATB50F
ECOB03Y (formerly ECOB01F and B02S)
ECOB07Y (formerly ECOB05F and B06S)
ECOB11F/S or (STAB52F and STAB57S)
ECOB12S
ECOB20F/S or ECOB21F/S or ECOC05F/S or ECOC07F/S
ECOB66F/S or ECOB68F/S or ECOB81Y or ECOB82Y

Four C-level half-courses in Economics, one of which must be ECOC13F or ECOC14S and one of which must be taken from the Workshops in Economics.

Students are urged to take ECOA01Y, CSCA56F or CSCA58F and either MATA27Y or MATA26Y or MATA55Y in their first year of full-time study (or equivalent). MATA27Y is adequate for satisfying the mathematics requirements of the Programme. However, students considering the possibility of graduate work in Economics are urged to take B-level Calculus as well, and to take Mathematical Statistics (STAB52F and STAB57S) instead of ECOB11F/S.
NOTE students taking MATA26 or MATA55 must complete additional courses in Mathematics in order to satisfy the Programme requirements (namely, MATB41F or MATB50F).
ECOB03Y, ECOB07Y and ECOB11F/S or (STAB52F and STAB57S) should normally be taken in the second year of full-time study.
Students may petition the Supervisor for permission to substitute other courses for some of those listed above.

**Specialist Programme in Economics and Commerce**
*Please refer to "Commerce and Economics"*

**Specialist Programme in Economics and Political Science**
*Supervisor:* 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 Specialist Programme.
Required courses in Economics:
ECOA01Y
ECOB03Y
ECOB07Y
ECOB31S, ECOB32F
ECOB20F or ECOB21S or ECOC05S or ECOC07F
ECOB35S or ECOB66F
ECOB11F/S OR (STAB52F and STAB57S)
Required courses in Political Science:
POLA01Y
POLB50Y
POLB70Y or POLB71Y
Three additional full-course equivalents from at least two of the five categories listed below. (Alternative courses in political theory or Canadian government may be acceptable if chosen with the advice and concurrence of the Supervisor.)
**A** Public Administration - POLB60Y, POLC60F, and 61S, POLC62F/S
**B** Political Behaviour - POLB65Y, POLB66Y, POLC65F/S
**C** International Relations - POLB80Y, POLB81F/S, POLB82Y, POLC80Y
**D** Comparative Politics, Industrialised Countries - POLB85Y, POLB86Y, POLB87Y, POLB88Y, POLB89Y, POLC85Y
**E** Comparative Politics, Developing Countries - POLB91Y, POLB92Y, POLB93Y, POLB94Y, POLC91F, POLC92S
Related courses in other disciplines:
MATA22Y or MATA26Y or MATA27Y, CSCA56F, COMA01Y
*The maximum number of Economics and Political Science full-course equivalents which can be counted for the four-year degree is sixteen.

**Major Programme in Economics**
*Supervisor:* R. Saunders
This Programme is designed to give a coordinated exposure to the subject matter of Economics to students pursuing the three-year degree or to those pursuing the four-year degree with more than a single area of concentration.

The Programme consists of six full-course equivalents in Economics. These must include: ECOA01Y, ECOB03Y, ECOB07Y, ECOB11F/S.
It is recommended that a student also include:
*i* one C-level course
*ii* ECOB12S
*iii* One course chosen from ECOB81Y, ECOB82Y, ECOB66F/S, ECOB68F/S

**ECOA01Y** Introduction to Economics
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
*Staff*

**ECOB03Y** Price Theory
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.
Exclusion: (ECOB01 and ECOB02)
Prerequisite: ECOA01 (Effective in the 1982 Summer Session and thereafter, a grade of at least C- in ECOA01 will be required)
Session: Summer Day, Winter Day, Winter Evening
*Staff*

**ECOB07Y** Macroeconomic Theory and Policy
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.
Exclusion: (ECOB05 and ECOB06)
Prerequisite: ECOA01 (Effective in the 1982 Summer Session and thereafter, a grade of at least C- in ECOA01 will be required.)
Session: Summer Day, Winter Day, Winter Evening
*Staff*

**ECOB11F/S** Quantitative Methods in Economics
An introduction to basic statistical methods and their applications to economic problems.
Exclusion: ANTB43; GGRB02; PSYB07; SOCB06; STAB52
Prerequisite: ECOA01 (Effective in the 1982 Summer Session and thereafter, a grade of at least C- in ECOA01 will be required.)
Session: Winter Day
*Staff*

**ECOB12S** Quantitative Methods in Economics: Applications
A course in some quantitative methods used in the analysis of economic policy. The student is introduced to the primary statistical techniques and modelling issues that are employed in forecasting, policy evaluation and planning decisions. Topics will include multiple regression, estimates of multiple equation systems, forecasting techniques and input-output models. Calculus is strongly recommended.
Prerequisite: ECOB11 or GGRB02 or STAB52 and STAB57; CSCA56 or CSCA58
Session: Winter Day
*Staff*

**ECOB20F** Literature of Political Economy
A study of the classical literature of Political Economy, especially selections from the works of Adam Smith, Malthus, Ricardo and J.S. Mill.
Prerequisite: ECOA01
Corequisite: ECOB03,B07
Session: Winter Day
*V.W. Bladen*

**ECOB21S** Literature of Political Economy II
A study of classical literature of Political Economy, especially selections from the works of Marx, Jevons, Marshall and Keynes.
Prerequisite: ECOA01
Corequisite: ECOB03,B07
Session: Winter Day
*Staff*

**ECOB31S** Economics of the Public Sector: Taxation
A course concerned with the revenue side of government finance. In particular, the course 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: ECOB03
Session: Winter Day

**ECOB32F** Economics of the Public Sector: Expenditures
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.
Prerequisite: ECOB03
Session: Winter Day

**ECOB35F** Public Decision Making
A study of decision making by governments from an economic perspective. The course begins by examining various rationales for public involvement in the economy and then examines a number of theories explaining the way decisions are actually made in the public sector. The course concludes with a number of case studies of Canadian policy making.
Prerequisite: ECOA01
Session: Winter Day
*M. Krashinsky*

**ECOB37S** Law and Economics
A study of laws and legal institutions from an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: externalities, property rights, environmental law, contracts, torts, product liability and consumer protection, criminal law, and procedure.
Prerequisite: ECOB03 (ECOB03 will be accepted as a corequisite when ECOB37 is taught in the second term of the winter session)
Session: Winter Day

**ECOB41F** Industrial Organization
The economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation and diversification.
Prerequisite: ECOB03
Session: Winter Day
*R. Saunders*

**ECOB45F** Poverty and Income Distribution
A study of alternative theories of income distribution with application to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.
Prerequisite: ECOB03
Session: Winter Day
*M. Gunderson*

**ECOB47S** Urban Economics
Economic analysis applied to contemporary urban problems. Topics discussed include housing and urban renewal, poverty and income maintenance, education, and metropolitan organization of urban areas.
Prerequisite: ECOB03
Session: Winter Day

**ECOB51S** Labour Economics
The application of the basic tools of labour economics to various policy issues such as: fertility and family formation; labour force participation; hours of work, overtime and moonlighting; mobility and migration; the effect of market structures on the wage-employment decision; the role of wage structures; causes, types and incidence of unemployment; wage-price guidelines and the wage-price-employment trade-offs; the impact of institutional constraints such as unions, featherbedding, minimum wages, wage parity, sex discrimination, occupational licensing, unemployment insurance, wage subsidies and negative income tax plans.
Prerequisite: ECOB03
Session: Winter Day
*M. Gunderson*

**JCEB54S** Industrial Relations
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unionism, labour law, and collective bargaining. Limited enrolment: 80.
Prerequisite: ECOA01
Session: Winter Evening

**ECOB61F** 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: ECOB07
Session: Winter Day

**ECOB62F** International Economics: Trade Theory
An analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade. "Free trade" and protectionism. The optimum tariff; trade blocs; the economics of customs unions and regional economic integration. Tariff bargaining. The Canada-U.S. Auto Pact.
Prerequisite: ECOB03
Session: Winter Day

**ECOB66F** 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 invest-

ment in developing countries, the problem of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry.
Prerequisite: ECOB03
Session: Winter Day
*A. Berry*

**ECOB68S** Comparative Economic Systems
An introduction to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a theoretical perspective; the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia.
Prerequisite: ECOA01
Corequisite: ECOB03
Session: Winter Day

**JCEB72F** 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.
Prerequisite: CSCA56 or CSCA58, MATA40 or MATA22 or MATA26 or MATA27 or MATA55, ECOB03
Corequisite: ECOB11 or GGRB02 or MATB57
Session: Winter Day

**JCEB73S** Analysis for Decision Making II
A continuation of JCEB72F 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.
Prerequisite: JCEB72
Session: Winter Day

**ECOB81Y** North American Economic History
A survey of important themes in the economic history of Canada and the United States. A comparative approach is employed to develop such themes as the role of natural resource staple industries, and urbanization, and the relationship of the state to economic change in the two countries.
Prerequisite: ECOA01
Session: Winter Day

**ECOB82Y** European Economic History
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 technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.
Prerequisite: ECOA01
Session: Winter Day
*J. Cohen*

**JCEC02Y** Corporation Finance
An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment: 60.
Prerequisite: COMB01; ECOB03; ECOB11
Session: Winter Day, Winter Evening

**ECOC05S** The Economics of J.M. Keynes
A study of his major works and consideration of their broad social implications. An attempt will be made to evaluate their relevance for Canada and other countries at the present time. Modern criticisms of Keynes will be analysed.
Prerequisite: ECOB03; ECOB07
Session: Winter Day

**ECOC07S** The Economics of Karl Marx
A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.
Prerequisite: ECOB03; ECOB07
Session: Winter Day

**ECOC08S** Econometrics
A detailed examination of the issues relevant for policy evaluation and corporate planning in building, estimating and evaluating statistical models in economics. This course will apply the theory of linear statistical models and simultaneous equation estimation covered in ECOBI2S to problems such as energy demand forecasting, the modelling of supply-demand equilibria in markets, measuring the impact of government regulatory policies and the use of large scale regional or national econometric models.
Prerequisite: ECOB12; ECOB03; ECOB07; MATA40 or MATB41 or MATA27; and permission of instructor
Corequisite: ECOC13 or ECOC14
Session: Winter Day
*W. Milne*

**ECOC11F** and **ECOC12S** Supervised Reading
For upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.
Prerequisite: Permission of instructor
Session: Summer Day, Summer Evening, Winter Day, Winter Evening
*Staff*

**ECOC13F** Advanced Microeconomic Theory
An upper level extension of the ideas studied in ECOB03. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.
Prerequisite: ECOB03; ECOB07; ECOB11; MATA22 or MATA26 or MATA27 or MATA55
Session: Winter Day

**ECOC14S** Advanced Macroeconomic Theory
Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconometric models.
Prerequisite: ECOB03; ECOB07; ECOB11; MATA22 or MATA26 or MATA27 or MATA55
Session: Winter Day

**ECOC15F** and **ECOC16S** Topics in Advanced Economic Theory
These courses are devoted to some aspect of economic theory not usually covered at the undergraduate level, or to recent work extending or revising received theory, or to alternatives to orthodox economic theory.
A detailed list of courses and instructors will be available to students from the late spring onwards.
Prerequisite: ECOC13 or ECOC14 and permission of instructor
Session: Winter Day

**ECOC21F**
**ECOC22S**
**ECOC23F**
**ECOC24S** Workshops in Economics
The workshops deal with detailed problem areas in Economics. In past years these have included such subjects as natural resources, technical change, international investment, multinational firms, economic discrimination, or extensions of applied topics covered at the B-level.
A detailed list of the courses and instructors will be available to students from the late spring onwards.
Prerequisite: ECOB03; ECOB07; MATA22 or MATA26 or MATA27 or MATA55. For ECOC23 and ECOC24, ECOC13 or C14 will be a prerequisite.
Session: Winter Day

**JCEC40S** Public Policy Towards Business
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.
Prerequisite: ECOB41
Session: Winter Day
*R. Saunders*

**Courses Not Offered in 1981-82**

**ECOB13F** Applications of Mathematics to Economics
*Prerequisite:* ECOA01; MATA27 or MATB41 or MATB50
*Corequisite:* ECOB03

**ECOC17F**
**ECOC18S**
**ECOC19F**
**ECOC20S** Workshops in Economics
*Prerequisite:* ECOB03; ECOB07; MATA26 or MATA27 or MATA55. For ECOC19 and ECOC20, ECOC13 or ECOC14 will be a prerequisite.

| | | |
|---|---|---|
| ECOC15F | Recent developments in monetary system | HOWSON |
| C16S | Individual and group behaviour in bargaining, discrimination and other game situations | CAMPBELL |
| C21F | Microeconomics, macroeconomics, and general equilibrium theory | FARMER |
| C22S | Work, technology and capitalism | COHEN |
| C23F | Structure and development of the regional economy: modelling with applications to Canada | MILNE |
| C24S | Problems of economic management in an open economy: Britain since 1960 | MOGGRIDGE |

# English

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

At the A-level, the curriculum offers two kinds of course. A01 and A02 deal with works from a broad historical spectrum, and provide a basic grounding for further studies in English: they are designed particularly, but not exclusively, for students planning a Specialist or Major Programme in English. For students not intending to pursue an English Programme, A08 provides a good alternative introduction to English at the university level, through the study of Twentieth-Century literature.

At the B-level, several courses are offered which require no prerequisite and are therefore available both to beginning and to more advanced students: see B01, B07, B08, B10, B11, B14 and B15. Other courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter.

C-level courses are designed for more sophisticated studies and require some independent work on the part of the student. These courses are generally restricted in enrolment and are conducted as seminars. Students are advised to consult the prerequisites for these courses when planning their individual programmes.

**Note for Prerequisites: Students who first registered at the College in the 1979-80 Winter Session or earlier may choose the following alternative prerequisite for ENGB02, B04, B05, B06, B09, B12, B16, B17, B31, B32, and B33: One full-course equivalent in English.*

**Specialist Programme in English**
*Supervisor:* E.P. Vicari
Ten full-course equivalents in English and two in related Humanities disciplines are required. They should be selected as follows.

**1** ENGA01Y English Literature: Practical Criticism and Interpretation
**2** ENGA02Y English Literature: An Historical Survey
**3** ENGB95Y English Literary Criticism
**4** Five additional full-course equivalents in English at the A- or B- level, including at least two courses in periods before 1800 and two courses in periods after 1800
**5** Two full-course equivalents in English at the C-level
**6** Two full-course equivalents in related Humanities disciplines to be chosen from the following:

CLAB01Y Greek and Roman Epic
CLAB02Y Greek and Roman Tragedy
HISB02Y Britain from the Eighteenth Century to the Present
HISB23Y Tudor and Stuart England (Prerequisite: a B-level HIS course)
HUMA01Y Prologue
HUMA11Y Greek and Roman Mythology
LINA01Y General Linguistics

(The above listing represents those courses which have a general relevance to the study of English literature. Students may substitute, with the prior approval of the Supervisor, other Humanities courses which have specific relevance to their individual programmes.)

**Major Programme in English**
*Supervisor:* E.P. Vicari
Seven full-course equivalents in English are required. They should be selected as follows:

**1** ENGA01Y English Literature: Practical Criticism and Interpretation
**2** ENGA02Y English Literature: An Historical Survey
**3** Four additional full-course equivalents in English, including at least one course in a period before 1800 and one course in a period after 1800
**4** One additional full-course equivalent in English at the C-level

See also the Specialist Programme in *Language and Literature*.

**ENGA01Y** English Literature: Practical Criticism and Interpretation
An introduction to methods of literary criticism through the close reading of texts representative of various literary genres, and through frequent exercises in analytical writing. Normally taken in conjunction with ENGA02Y.

Why do we "study" literature rather than just read it? What is involved in "analyzing" a poem, a play, a novel, or an essay? Do different kinds of literature require different kinds of analysis? How do we use critical terms and concepts such as metaphor, narrative perspective, and tragicomedy? This course will consider such questions, mainly through practice in the close analysis of literary texts. Frequent written assignments should stimulate students to think critically, to formulate their ideas coherently, and to express themselves clearly and persuasively. The texts are: *The Norton Anthology of English Literature (Fourth Edition)*, Vols. 1 and 2; Austen, *Pride and Prejudice;* Dickens, *Great Expectations;* further texts may be chosen by individual instructors.

Teaching will involve a mixture of lecture and discussion, with particular emphasis on active class participation. All sections will require written term work (a total of at least 7500 words).
Exclusion: (ENGA04)
Session: Winter Day, Winter Evening
*Co-ordinator: K. Theil*

**ENGA02Y** English Literature: An Historical Survey
A survey of English Literature from the Middle Ages to the twentieth century, in the context of relevant intellectual, aesthetic, social and political developments. Normally taken in conjunction with ENGA01Y.

This course provides a general introduction to the main periods of English literary history--the Medieval, Renaissance, Restoration, Eighteenth-Century, Romantic, Victorian, and Modern Periods. Reading will be extensive, involving selections from at least twenty major writers. The texts are: *The Norton Anthology of English Literature (Fourth Edition)*, Vols. 1 and 2; Austen, *Pride and Prejudice;* Dickens, *Great Expectations;* Hardy, *Tess of the d'Urbervilles;* further texts may be announced.

This is a lecture course. Students are advised to combine this course with English A01Y, in order to balance their programme with small group discussions, close textual study, and practice in essay writing.
Session: Winter Day
*M. Tait, W.J. Howard*

**ENGA08Y** Twentieth-Century Literature
An introduction to critical reading and writing through a selection of modern literature from the English-speaking world.

This course will explore literature of the modern period -- a time of change and experiment. We will study short stories and novels by such writers as Joyce, Faulkner, D.H. Lawrence, Nabokov, Naipaul, Margaret Atwood and Alice Munro; plays by dramatists such as Shaw, O'Neill, Tennessee Williams, Beckett, Pinter and Stoppard; and a selection of modern poems. Essays based on the reading will provide practice in university -level writing and training in methods of analysis and exposition. Texts will include: *Double Vision*, ed. Rudy Wiebe; *Modern Poems*, ed. O'Clair and Ellmann; Joyce, *Portrait of the Artist*; Lawrence, *Sons and Lovers*; Shaw, *St. Joan*; O'Neill, *Long Day's Journey into Night*; Beckett, *Waiting for Godot*; three additional novels.

Teaching will involve a combination of lectures and tutorials.

Note: this course is intended primarily for students who do not expect to take a Specialist or Major Programme in English.
Session: Winter Day
*R. Brown*

**ENGB01Y** Old English Language and Literature
An introduction to the language and literature of the Old English period as represented principally in the poetry and prose of the ninth and tenth centuries.

The reading of Old English texts will begin immediately. During the first term the basic principles of grammar and syntax will be studied in coordination with the readings. Selections from the *Anglo-Saxon Chronicle*, the *Old English Martyrology*, Bede and Aelfric will be used. The second half of the course will deal with poetry. Old English motifs, metre, and diction will be studied in selected poems: *Caedmon's Hymn*, *The Battle of Brunanburh*, *The Battle of Maldon*, *The Dream of the Rood*, *The Wanderer* and *The Seafarer*. The text is *Bright's Old English Grammar and Reader*, ed. F.J. Cassidy and Richard Ringler, 3rd ed. (New York, Rinehart and Winston, 1971).
Session: Winter Day
*A. Healey*

**ENGB04Y** English Poetry, Prose and Drama 1660-1800
An historical study of the poetry, prose and drama of the Restoration and Eighteenth Century with special reference to the work of Dryden, Pope, Swift, and Johnson.

The two main organizing "problems" of the course, or its continuing centers of attention, are English neo-classicism and satire. It is also a survey which attempts to illustrate the variety of a long and miscellaneous period in English literature. The authors studied are Butler, Rochester, Dryden, Congreve, Wycherley, Pope, Swift,

Addison, Defoe, Johnson, Boswell, Goldsmith and Sheridan.

Reading will include: Selections from *Eighteenth-Century English Literature*, ed. Tillotson (Harcourt Brace); Jonathan Swift, *Gulliver's Travels*, ed. Landa; *Restoration and Eighteenth-Century Comedy*, ed. Scott MacMillan (Norton); Boswell, *Life of Johnson*.

Lectures, discussion, student papers read and discussed in class.
Corequisite*: ENGA01 (ENGA04), ENGA02; or ENGB15
Session: Winter Day
*W.H. Halewood*

**ENGB06Y** Victorian Poetry
The poetry of Tennyson, Browning, Arnold, and selections from other poets, including Morris, D.G. Rossetti, Swinburne, Hopkins, Hardy.

The poetry of this period reflects the spiritual crisis of the Victorian age-- the collapse of religious belief, the resulting sense of alienation and despair, and the attempt to affirm a positive vision in the face of doubt. The course concentrates upon major poems of the mid-Victorian period, emphasizing the development of the dramatic monologue and the elegy. A selection of poems from the later period reflects increasingly darker ironies and leads to the introverted and sensual poetry of Aestheticism and Decadence. The course focuses both on close readings of individual poems and on general discussion of nineteenth-century thought. Text: Victorian Poetry and Poetics, ed. Houghton & Stange.
Prerequisite*: ENGA01 (ENGA04), ENGA02; or ENGB15
Session: Winter Day
*M. Creelman*

**ENGB07Y** Canadian Literature in English: An Introduction

A study of a wide range of Canadian literature, including works by novelists such as Callaghan, MacLennan, Laurence, Grove, Davies, Buckler; poets such as Lampman, D.C. Scott, Klein, Pratt, Birney, Avison, Atwood; playwrights such as Ryga; writers of short stories and non-fiction prose.

The study of Canadian literature in English will be mainly historical, from early times to the present, though most attention will be paid to literature of the twentieth century. Representative novels, poems and plays will be read by the class; 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, discussions, and tutorials. Texts will include Laurence, *A Jest of God*; Davies, *The Manticore*; Ostenso, *Wild Geese*; Grove, *The Master of the Mill*; de Mille, *Strange Manuscript*. A core anthology and additional texts will be announced later.
Session: Winter Day
*R. Brown*

**ENGB08Y** American Literature: An Introduction
A study of at least twelve major works in American literature including the following: Melville, *Moby Dick*; Twain, *Huckleberry Finn*; Hawthorne, *The Scarlet Letter*; Whitman, *Selected Poems*.
Session: Winter Evening
*J. Kay*

**ENGB09Y** Prose and Poetry of the English Renaissance 1500-1660
The non-dramatic literature of the English Renaissance from the rise of English humanism to the Interregnum.

This course begins with sixteenth-century humanism in the works of More, Erasmus and other Continental writers. It traces the development of English poetry from the early Tudor period (Skelton, Wyatt and Surrey), through Spenser, Sidney, Shakespeare, Marlowe, Donne, Jonson, Herbert, Marvell and Vaughan, including love poetry and other lyric forms, as well as the epic as treated by Spenser and Milton. The evolution of English literary prose and prose-narrative forms is studied in works by More, Sidney, Bacon, Browne, Burton, Milton and Bunyan.
Texts: *Norton Anthology of English Literature*, Vol. I, More, *Utopia*, *The Essential Erasmus*, Machiavelli, *The Prince*, Castiglione, *The Courtier*, Bacon, *Essays*, Shakespeare, *Poems*, Bunyan, *The Pilgrim's Progress*, ed. Martz.

The teaching method will involve lectures and discussion.
Corequisite*: ENGA01 (ENGA04), ENGA02; or ENGB15
Session: Winter Day
*E.P. Vicari*

**ENGB10Y** Shakespeare
A study of at least eleven plays.

The plays will be viewed from a variety of critical perspectives. They will include *The Merchant of Venice*, *Richard II*, *Richard III*, *Henry IV*, Part I, *Twelfth Night*, *Othello*, *Macbeth*, *Anthony and Cleopatra*, *The Tempest*.
Session: Winter Day
*M. Tait*

**ENGB10Y** Shakespeare
A study of at least eleven plays.

A study of selected plays by Shakespeare, both as unique works of art and in the larger contexts of Shakespeare's work as a Renaissance dramatist. Reading will include *Love's Labour's Lost*, *A Midsummer - Night's Dream*, *The Taming of the Shrew*, *Romeo and Juliet*, *Richard III*, *Richard II*, *Henry IV*, *The Tempest*, *King Lear*, *Hamlet* and from one to three additional plays.

The course will be taught through lecture and discussion.
Session: Summer Evening
*R. Brown*

**ENGB14Y** Varieties of Fiction
An analytical study of prose fiction from various periods, aiming to develop a familiarity with the varieties of prose fiction and a capacity for reading individual works critically. Further information will be available later in Room H332A.
Session: Winter Day
*A. Thomas*

**ENGB15Y** English Poetry
A comparative study of forms, modes, themes, and styles of poetry from a number of historical periods.

The poems selected for study will reflect the variety of forms in the English poetic tradition, including medieval ballads, Renaissance sonnets, eighteenth-century couplets, romantic odes and modern free verse. Poets studied will include Shakespeare, Donne, Pope, Wordsworth, Eliot, and Yeats. The text will be *The Norton Anthology of Poetry: Shorter Edition* (Revised). Classes will involve close reading and discussion of selected poems in a seminar group.
Session: Winter Day
*M. Tait*

**ENGB16Y** Fiction 1832-1900
A study of the development of the English novel in the Victorian period.

This course cultivates an understanding of the English novel in its most assured period of creation, through study of the following works: C. Bronte, *Jane Eyre*; E. Bronte, *Wuthering Heights*; Thackeray, *Vanity Fair*; G. Eliot, *Middlemarch*; Dickens, *Hard Times*, *Great Expectations*; Hardy, *Far From the Madding Crowd*, *The Woodlanders*, *Jude the Obscure*; G. Moore, *Esther Waters*; Conrad, *The Secret Agent*. Students are urged to read as many of these novels as possible beforehand.

Teaching will be conducted by lectures, discussion and student-led seminars.
Prerequisite*: ENGA01 (ENGA04), ENGA02; or ENGB14; or HISC21
Session: Winter Evening
*A. Thomas*

**ENGB17Y** Fiction before 1832
At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Austen and Scott.

This is an historical course on the development of the novel from the early eighteenth century to the Romantic period. It includes the best comic novels in the language; serious moral, social, and psychological studies; and works that reveal and comment on some of the literary fads of the time - fashions for terror, pathos, and the nostalgic representation of the past. Works to be studied include Defoe, *Moll Flanders*; Richardson, *Clarissa*; Fielding, *Tom Jones*; Sterne, *Tristram Shandy*; Mackenzie, *The Man of Feeling*; Smollett, *Humphry Clinker*; Radcliffe, *The Mysteries of Udolpho* or Lewis, *The Monk*; Austen, *Emma*; Scott, *Waverley*. Not for people who don't really like reading.

Classes are conducted in an informal way, combining monologue and discussion.
Prerequisite*: ENGA01 (ENGA04), ENGA02; or ENGB14
Session: Winter Day
*H. Jackson*

**ENGB26Y** Canadian Poetry in English
A study of the Canadian poets of the nineteenth and twentieth centuries, including Lampman, Pratt, F.R. Scott, A.J.M. Smith, Birney, Klein, Layton, Reaney, Avison, Livesay and Atwood.

Problems arising from the relationship of a poem to its cultural context are of particular importance in the study of Canadian poetry. We will examine the ways in which Canadian poets have dealt with these problems.

The teaching method will combine lectures and seminars.
Prerequisite: One full-course equivalent in English
Session: Summer Evening
*S. Namjoshi*

**ENGB27Y** Canadian Fiction in English
A study of Canadian fiction in English from its origins in the eighteenth century, through the search for form and tradition in the nineteenth and early twentieth century, to the contemporary period of new exploration and consolidation.

The course examines authors confronting the problem of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition. It then examines several contemporary novelists both in terms of that tradition and through close readings of specific novels. Texts: Frances Brooke, *The History of Emily Montague (selections)*; Moodie, *Roughing It in the Bush*; Grove, *Fruits of the Earth*; Callaghan, *Such is My Beloved*; MacLennan, *Barometer Rising*; Mitchell, *Who Has Seen the Wind*; Ross, *As For Me and My House*; Watson, *The Double Hook*; Richler, *St. Urbain's Horseman*; Laurence, *The Stone Angel*; Davies, *Fifth Business*; Lowry, *Hear Us O Lord*; Kroetsch, *The Studhorse Man*; Atwood, *Surfacing*; and one or two additional novels.

The teaching method will involve lectures and discussions.
Prerequisite: One full-course equivalent in English.
Session: Winter Day
*R. Brown*

**ENGB31Y** Modern Drama
A study of developments in English, American, and European drama in the late nineteenth and twentieth centuries.

This course offers a concentrated study of the principal modes of modern theatre from Ibsen to Pinter. Central to the course is a definition of such terms as realism, expressionism, the theatre of the absurd, epic theatre, etc., as these categories may be usefully applied to the work of major modern playwrights. Texts will include: Ibsen, *A Doll's House* and *Hedda Gabbler*; Chekhov, *The Cherry Orchard*; Strindberg, *Miss Julie*; Brecht, *Galileo*; Beckett, *Endgame*; plays by Shaw, Yeats, O'Neil, Pirandello, and T. Williams.

The teaching method will involve a mixture of lecture and discussion.
Prerequisite*: ENGA01 (ENGA04), ENGA02; or ENGB11
Session: Winter Day
*K. Theil*

**ENGB33Y** Fiction 1900-1950
An intensive study of at least twelve novels, with particular attention given to developments in fictional form and in the theory of the novel.

The early twentieth century was a period of innovation and experiment in the novel; new ways of writing novels expressed new ways of thinking about man. This course explores the emergence of a new content for fiction: truth as relative and subjective; character as a complex of unconscious impulses; time as a fluid continuum; reality as the perceiving mind. We look at ways in which novelists abandoned the "old-fashioned" forms of narrator, character, and story, or ways in which they put the old traditions to new use. Texts include James, *The Ambassadors*; 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 urged to do some reading in advance and use editions listed in the Bookstore.

Teaching method will be a combination of lecture and discussion, and, if enrolment permits, seminars.
Prerequisite*: ENGA01 (ENGA04), ENGA02; or ENGB14
Session: Winter Day
*M. Creelman*

**ENGB95Y** English Literary Criticism
A study of English literary criticism from the Renaissance to the 20th Century.

This course aims to develop a systematic understanding of criticism. Some great critical texts in the English tradition will be studied in detail. Reading will include works by: Pope, Johnson, Coleridge, Shelley, Arnold, Leavis, Richards, Empson, Frye, Burke, among others. Central issues of literary theory are raised by these works and will be discussed in relation to them.

The class will consist of lectures and discussion three hours per week.
Prerequisite: Three full-course equivalents in English, at least one at B-level.
Prerequisite, 1982-83: A01 (A04), A02 and two further full-course equivalents in English.
Session: Winter Day
*J. Kay*

**ENGC05Y** Studies in Restoration and Eighteenth Century Literature
An advanced seminar treating special topics in eighteenth century literature. Limited enrolment: 15.

In 1981-82, the topic of the course will be a close study of the early writers of the eighteenth century. We will consider a wide range of work written by Defoe, Swift, and Pope. A good deal of attention will be given to the political, social and philosophical background, but emphasis will be directed to the new rhetorical modes of expression being developed.

Students will be expected to present two seminar reports each term.
Prerequisite: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB04, ENGB17
Session: Winter Day
*W.J. Howard*

**ENGC08Y** Studies in Twentieth Century Literature
An advanced seminar treating special topics in twentieth century literature. Limited enrolment: 15.

In 1981-82, the topic for this course will be "The Bloomsbury Group". The following works will be studied: *The Bloomsbury Group: A Collection of Memoirs, Commentary, and Criticism*, ed. S.P. Rosenbaum (Toronto, 1975); Virginia Woolf: *Jacob's Room, Mrs. Dalloway, A Room of One's Own, Orlando, The Waves*; E.M. Forster: *Howard's End, A Passage to India, Aspects of the Novel*; Lytton Strachey, *Eminent Victorians, The Shorter Strachey*; Clive Bell, *Art*; Roger Fry, *Vision and Design*; Leonard Woolf, *An Autobiography*, Vol. 1 (1880-1911).

The writing for the course will consist of six or eight very short analytical papers (500 to 1000 words) and a longer final paper (3000 words) analyzing a Bloomsbury work not discussed in class.
Prerequisite: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB31, ENGB32, ENGB33.
Session: Winter Day
*S.P. Rosenbaum*

**ENGC14Y** 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 E.P. Vicari. By November 15th a more specific statement of the project is to be sent to Prof. Vicari including the exact title of the proposed study, and a short description of its subject and method. After the topic has been approved by the discipline, a second reader will be appointed.
Prerequisite: Open only to students completing the last five courses for the four-year degree who have at least three full-course equivalents in English, at least one at B-level.
Session: Winter Day
*Staff*

**ENGC15Y** Comprehensive Examinations
English C15Y counts as a full course in the student's Programme: It will take the form of a reading course under the direction of an adviser.

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

**ENGC40F** Women Poets
A study of the more important women poets in English, American and Canadian literature.

In addition to a close analysis of individual poets, we shall study how recurrent themes in poetry, poetic techniques and literary stereotypes have been modified by some women writers. Texts will include anthologies of women poets and the selected poems of Elizabeth Barrett Browning, Christina Rossetti, Emily Dickinson, Edna St. Vincent Millay, Marianne Moore, Adrienne Rich, and Margaret Atwood.

Teaching method will be seminar discussion.
Prerequisite:
Three full-course equivalents in English, at least one at B-level; or two courses in English, at least one at B-level, and one in Women's Studies.
Session: Winter Day
*S. Namjoshi*

**ENGC41F** Dickens
A study of some of the major novels and some of the short works of Dickens.
The teaching method will be seminar discussion.
Prerequisite: Three full-course equivalents in English, at least one at B-level
Session: Winter Day
*A. Thomas*

**ENGC42S** Faulkner
A study of Faulkner's development as a writer, from his early romantic poetry to his most accomplished novels.
The course examines Faulkner's main concerns as a writer, his style, themes, and the development of Yoknapatawpha County.
Bibliography will include *The Unvanquished*, *The Wild Palms*, *Absalom, Absalom*, *The Hamlet*, *Sanctuary*, *The Sound and the Fury* and a selection of short stories.
This is a seminar course.
Prerequisite: Three full-course equivalents in English, at least one at B-level
Session: Winter Day
*J. Kay*

**Courses Not Offered in 1981-82**

**ENGB02Y** Chaucer
*Corequisite*:* ENGA01 (ENGA04),ENGA02; or ENGB15

**ENGB05Y** Romantic Poetry
*Prerequisite*:* ENGA01 (ENGA04), ENGA02; or ENGB15

**ENGB11Y** Varieties of Drama

**ENGB12Y** English Drama to 1642
*Corequisite*:* ENGA01 (ENGA04), ENGA02; or ENGB11

**ENGB24Y** Major American Authors
*Prerequisite:* One full-course equivalent in English

**ENGB25F/S** The Canadian Short Story

**ENGB28Y** Contemporary Literature in English: West Indies, India, Africa and Australia
*Prerequisite:* One full-course equivalent in English

**ENGB29Y** African Literature in English
*Prerequisite:* One full-course equivalent in English

**ENGB32Y** Modern Poetry
*Prerequisite*:* ENGA01 (ENGA04), ENGA02; or ENGB15

**ENGC01Y** Advanced Studies in Beowulf and Other Old English Poetry
*Prerequisite:* ENGB01

**ENGC03Y** Studies in Middle English Language and Literature
*Prerequisite:* ENGB01; ENGB02

**ENGC04Y** Studies in Renaissance Literature
*Prerequisite:* ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB09, ENGB10, ENGB12

**ENGC06Y** Studies in Nineteenth Century Literature
*Prerequisite:*
ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB05, ENGB06, ENGB16

**ENGC10F** Problems in Later Shakespeare
*Prerequisite:*
Three full-course equivalents in English, one of which must be ENGB10 or ENGB12

**ENGC11S** Paradise Lost
*Prerequisite:* Three full-course equivalents in English, at least one at B-level

**ENGC12F** History of the English Language
*Prerequisite:*
Three full-course equivalents in ENG, including one at the B-level; or two courses in ENG and one of: an appropriate HIS course, LINA01 or LINA04

**JHEC13Y** Advanced Seminar in Literary Theory and Criticism
*Prerequisite:*
Three full-course equivalents in English, at least one at the B-level; or three full-course equivalents in literature and permission of instructor

**ENGC18F** The Shorter Fiction of D.H. Lawrence
*Prerequisite:* Three full-course equivalents in English, at least one at B-level

**ENGC24Y** Topics in American Literature
*Prerequisite:* One of ENGA08; ENGB24; one other B-level full-course equivalent in English

# Fine Art

**ENGC28S** Drama in English Canada 1920-1970
*Exclusion:* (ENGB13)
*Prerequisite:*
Three-full course equivalents in English, at least one at the B-level; or two courses in English and one of: HISB04, a full-course equivalent in Drama

*Discipline Representative:* L. Carney
*Studio Representative:* D. Holman
The Fine Art Curriculum offers courses in the two complementary fields of Art History and Studio. The courses offered in Art History deal primarily with the development of the arts in the West from classical times to the present day. The Studio curriculum has been designed to develop creative thinking and provides opportunities for a first hand acquaintance with materials, forms, and concepts of the visual arts.
Students are encouraged to take relevant courses in other disciplines, such as are listed below, in order to enhance their background knowledge and to become familiar with a variety of views of fine art.
Students who wish to supplement Scarborough offerings in Art History with courses on the St. George campus should also pay careful attention to the requirements described in the calendar of the Faculty of Arts and Science. It should be noted that course offerings are not identical on both campuses, but requirements for a 300- or 400- level course on the St. George campus can be met at Scarborough by taking an A- and a B-level survey in the same area as the upper level course. (See also p. 19 of this calendar.)
Since reading ability of foreign languages is necessary in many advanced fields of Art History, and since a reading knowledge of certain foreign languages is a prerequisite for admission to some upper level Art History courses on the St. George campus, it is highly recommended that students acquire proficiency in one or more languages (French, German or Italian) by the end of their second year.
Students in Studio courses are required to meet part of the cost of materials; they will be required to pay $30 - $50 for materials for each half course.

Recommended courses outside the discipline:

| | |
|---|---|
| HISA01Y | The European World: An Introduction to History |
| HUMA11Y | Greek and Roman Mythology |
| HUMB22F/S | The Age of Pericles |
| HUMB23F/S | The Age of Augustus |
| HUMB24F/S | The Age of Nero |
| HUMB25F/S | The Age of Homer |
| HUMB34F/S | Hercules: the Man of Action |
| HUMB35F/S | "The Ulysses Factor" |
| HUMB36Y | Orpheus: The Quest for Beauty |
| HUMB70Y | Introduction to Cinema |
| PHLB03F | Philosophy and Art |

PSYB50F/S Sensation and Perception*
SOCC18Y Sociology of Art and Culture*
*Students should check these courses for prerequisites.

**Specialist Programme in Fine Art**
*Supervisor:* R. Siebelhoff
Students must complete ten full-course equivalents in Fine Art as follows:
1 One and one-half full-course equivalents in Fine Art History chosen from the Classical and Medieval periods.
2 One and one-half full-course equivalents in Fine Art History chosen from the Renaissance and Baroque periods.
3 Two full-course equivalents in Fine Art History chosen from the modern period.
4 Five full Studio courses (or equivalent) to be chosen in consultation with the Studio instructors.

**Specialist Programme in Fine Art History**
*Supervisor:* R. Siebelhoff
Students must complete eleven full-course equivalents as follows:
1 FARA10F; FARA11S; FARA12F; FARA13S
2 One B-level full-course equivalent from each of the following areas:
Classical
Medieval
Renaissance
Baroque
Modern (1750 to the present)
3 Two C-level full-course equivalents in Fine Art History.
4 Two full-course equivalents in cognate fields selected from the list of recommended courses. Other courses may be substituted with the approval of the Supervisor.

**Major Programme in Fine Art History**
*Supervisor:* R. Siebelhoff
Students must complete six full-course equivalents as follows:
1 One full-course equivalent in Fine Art History from each of the following areas:
Classical
Medieval
Renaissance
Baroque
Modern (1750 to the present)
2 One additional full-course equivalent in Fine Art History at the C-level.

**Specialist Programme in Fine Art Studio**
*Supervisor:* D. Holman
Students must complete fourteen full-course equivalents: ten in Fine Art Studio; any two full-course equivalents in Fine Art History; and two additional courses in cognate disciplines.
The courses in Fine Art Studio must include:
1 FARA90Y
2 FARB70F/S; FARB72F/S; FARB75Y; FARB82F/S; FARB84Y
3 Three and one-half B-level full-course equivalents chosen from the following: FARB74F/S; FARB76Y; FARB77Y; FARB83F/S; FARB85Y; FARB90F/S; FARB91F/S; FARB92Y
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. The two full-course equivalents in Fine Art History should be chosen in consultation with the Supervisor.
Two additional full-course equivalents are to be chosen from the list of recommended courses outside the discipline available from the Supervisor.

**Major Programme in Fine Art Studio**
*Supervisor:* D. Holman
Students must complete six full-course equivalents as follows:
1 FARA90Y
2 FARB70F/S*
3 FARB72F/S*
4 FARB74F/S*
5 FARB75Y*
6 Two and one-half additional Studio courses, one of which must be at the C-level.
*Students should check these courses for prerequisites.

# Fine Art History

**FARA10F** Ancient Art and Architecture
Art and architecture from Archaic Greece to the decline of Rome.
A survey of major monuments and trends in Greece and Rome. Emphasis on archaic sculpture, classical architecture and sculpture, Hellenistic art, Roman Republican portraiture and Imperial architecture. One two-hour lecture per week. Visits to R.O.M. and A.G.O.
Exclusion: (FARA04)
Session: Winter Evening
*G. Scavizzi*

**FARA11S** Medieval Art
A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will consider architecture, sculpture, painting, illumination and the minor arts.
The objective 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, moslem and pagan forms, to the triumphant creation of an entirely new iconographic and stylistic language of expression which determined the nature of renaissance art. Texts will include E. Kitzinger, *Early Medieval Art*; R. Krautheimer, *Early Christian and Byzantine Architecture*; O. von Simson, *The Gothic Cathedral*; and others.
There will be two hours of slide lectures weekly and trips to the Royal Ontario Museum.
Exclusion: (FARB24)
Session: Winter Day

**FARA12F** Renaissance and Baroque Art
A survey of architecture, painting and sculpture from ca. 1400 to ca. 1750.
A selection will be made of the most important monuments, primarily from Italy and the Netherlands. These will include works by such artists as Leonardo da Vinci, Michelangelo, Rembrandt, Rubens and Bernini. Two hours of lectures per week; class participation is encouraged. Slides and films will be used and visits will be made to the A.G.O. and the R.O.M.
The course texts are Frederick Hartt, *Art, A History of Painting, Sculpture, Architecture*. Vol. II, *Renaissance, Baroque, Modern World*. New York, Abrams, 1976.
Exclusion: (FARA03), (FARA04)
Session: Winter Day
*R. Siebelhoff*

**FARA13S** Modern Art: 1750 to the Present
A selective study of Western European and North American painting, sculpture and architecture from the period of the French Revolution to the Second World War.
Works of art will be chosen and analyzed on the basis of their key roles in the rapid succession of artistic movements during this period. By a thorough study of these works, the course will attempt to present a comprehensive view of artistic conditions in major centres throughout the modern Western World. Three hours of lecture/discussion each week.
Exclusion: (FARA03), (FARA04)
Session: Winter Evening
*L. Carney*

**FARB05S** Classical Greek Sculpture (480-300 B.C.)
A study of the evolution of Greek sculptural forms (statues, architectural and other reliefs) from the rise of the classical style through its maturity.
This course follows the technical and aesthetic 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 FARB04, but can still be taken independently. The sculptures examined consist of statues in marble and bronze, funerary 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
*M. Shaw*

**FARB06F** Ancient Rome
A study of the development of the city of Rome to the Late Empire.
The course will examine buildings and monuments and their place in the life of the ancient city, with assigned readings in topography, art and architecture, and history.
There will be two hours of classes per week.
Session: Winter Day
*F.E. Winter*

**FARB11F** Gothic Architecture
A development of Gothic Architecture from the beginning of the twelfth century to the middle of the thirteenth century.
Emphasis will be placed upon Notre-Dame in Paris, upon the cathedrals of Chartres, Reims and Amiens, and upon a select number of monuments in England. A discussion of the sculptural programs of the said churches will be included. One two-hour lecture per week. Course texts: O. von Simson, *The Gothic Cathedral*, Princeton 1962.
Session: Winter Day
*G. Scavizzi*

**FARB15F** Renaissance in Italy
The development of architecture, sculpture and painting in Italy from 1420 to 1520.
A study of the major personalities (Brunelleschi, Alberti, Donatello, Masaccio) who created in Florence between 1420 and 1450 the classical style that we associate with the Renaissance at large. The course will also deal with the dissemination of this style outside of Florence during the second half of the century (particularly with Mantegna and the painters of Venice) and with the emergence of the 'heroic' style of the High Renaissance (Bramante, Raphael, Michelangelo).
Exclusion: (FARB03) (FARB23)
Session: Winter Day
*G. Scavizzi*

**FARB16Y** The Arts in Northern Europe ca. 1400-1500
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 Eycks to Hugo van der Goes against a background of patronage from court and city. The first few lectures will deal with the geography and topography of the Burgundian lands around 1400 and will proceed with a historical survey of the area during the fifteenth century, including aspects of the interaction between Flanders and Northern France. Then the origins of Netherlandish painting will be explored by looking at some of the major manuscript workshops and the panel painters who followed. The works presented will be used to illustrate some of the problems faced by art historians, such as attribution of works upon documentary, stylistic and iconographic grounds. There will be two hours of lectures per week with class participation encouraged. Use of slides and films, visits to A.G.O., R.O.M. The course texts are: Ch. Cuttler; *Northern Painting*, New York, (soft cover edition) 1968.
Exclusion: (FARB22)
Session: Winter Day
*R. Siebelhoff*

**FARB30S** Frans Hals, Rembrandt and Vermeer
An examination of the work of the three principal artists of the seventeenth century in Holland against the background of bougeois patronage.
This study of Dutch Baroque painting explores developments in three different centres: Haarlem, Amsterdam and Delft. The artists examined represent as well three different generations. The development of their various styles will be considered in the light of the centre in which each worked and the generation to which each belonged. Attention will be paid to the iconography of portraiture, biblical and genre subjects. The teaching method will involve lectures, slides, films and visits to galleries.
Exclusion: (FARB45)
Session: Winter Evening
*R. Siebelhoff*

**FARB46F** Gauguin, Seurat, Van Gogh, Cézanne
The painting and drawing of four pioneers of modern art.
The course offers a detailed study of the major Post-Impressionist artists, their roots in Impressionism, the highly independent directions of their careers, and the establishment of artistic principles that extend far into the twentieth century. The class will meet weekly for a two-hour slide lecture with occasional films.
Exclusion: (FARB28)
Session: Winter Evening
*L. Carney*

**FARB47F** Nineteenth Century Realism
A study of the most important artistic movement between Romanticism and Impressionism.
The aim of the Realist artist was to represent the real world in an objective and impartial way. Realism had major representatives in England and Germany, but its greatest flowering occurred in France between ca. 1840 and 1880. The course will trace the careers of Millet and Courbet in France, the Pre-Raphaelites in England, and several German artists. Bibliography includes Linda Nochlin, *Realism* (Penguin, 1971) and Linda Nochlin, *Realism and Tradition in Art 1848-1900* (Prentice-Hall, 1966).
There will be two hours of lectures per week with class participation encouraged. Slides and films will be used, and visits paid to the A.G.O. and, if possible, to the Albright-Knox Gallery in Buffalo.
Session: Winter Evening
*R. Siebelhoff*

**FARB54F** New York in the Twentieth Century
A study emphasizing major New York painters and sculptors from the first half of this century.
The course surveys the art scene in New York as the city moved from a somewhat provincial position to a vivid awareness of modern European art at the time of the Armory Show in 1913, and eventually became an international art centre after the Second World War.
There will be a two-hour slide lecture each week, with class participation encouraged. The class will make a day trip to the Albright-Knox Gallery in Buffalo, and a weekend trip to New York City if this can be arranged. Bibliography will be discussed in class.
Prerequisite: Recommended preparation or companion courses: FARA13 or FARB48
Session: Winter Day
*L. Carney*

**FARB60Y** The Arts in Canada: 1670 to 1960
A selective survey of Canadian painting, sculpture and architecture.
Topics of study will include the beginnings of Quebec art and its growth to mid-nineteenth century, the development of an independent Canadian Landscape school, the Group of Seven and painting between the wars, evolution of modern architecture in Canadian cities, vernacular architecture and folk art, 'early modern' painters, history of native art.
There will be a two-hour lecture each week, with visits to important Canadian art collections. FARA13 is recommended but not required as preparation.
Exclusion: (FARB20)
Session: Winter Day
*L. Carney*

**FARC02F**
**FARC03S**
**FARC04Y** Supervised Reading
Prerequisite: At least one B-level full-course equivalent in Art History; permission of instructor must be obtained by the first week of classes. A reading knowledge of a second language is recommended.
Session: Winter Day
*R. Siebelhoff*

**FARC14S** Art Around 1900
The exploration of Symbolism and Art Nouveau with reference to the stylistic and literary origins.
This study emphasizes the development in several centres such as Paris, Vienna and Munich. The coincidence of these developments will be researched, and the contribution of individual artists will be evaluated. Since literary prototypes of the visual images are of major importance they will be carefully looked at. Bibliography includes: Mario Praz, *The Romantic Agony*, London-New York, Oxford University Press, 1970 (there exist several editions); and Robert Schmutzler, *Art Nouveau*, New York, Abrahams, 1962 (is now available in soft cover.) The teaching method will involve lectures, slides, films and visits to galleries.
Prerequisite:
Any B-level full-course equivalent in Art History, preferably in the nineteenth century.
Session: Winter Day
*R. Siebelhoff*

**FARC15S** Cubism and Related Movements in Painting
Investigation of the origin and development of Cubism and of subsequent movements such as Futurism, Orphism and the Blue Rider. The work of Pablo Picasso will be emphasized, and Cubism's legacy to post-World War I painting and sculpture will also be discussed.
Each student will develop one topic in collaboration with the instructor; this will be presented in seminar and finally in written form. Three hours of seminar per week.
Exclusion: (FARB52)
Prerequisite: FARB46 or FARB48, and at least one additional half-course in Art History.
Session: Winter Day
*L. Carney*

## Fine Arts Studio

**FARA70F** Two and Three Dimensional Design
An introduction to the basic principles of visual design for the student interested in the visual arts, but not intending to pursue the Specialist Programmes.
The student will investigate basic principles in design and composition, developing a familiarity with both the verbal and visual vocabulary. There will be lectures, demonstrations and group critiques. The student will work in class and be given weekly assignments related to that work.
Three hours per week. Limited enrolment: 20
Session: Winter Day, Winter Evening
*B. Hall*

**FARA71S** Colour
An introduction to the interaction of colour in the visual arts for the student with an interest in the visual arts, but who is not intending to pursue the Specialist Programmes.
The student will be introduced to the relativity of colour relationships, developing a familiarity with the methods of controlling colour effects. There will be lectures, demonstrations and group critiques. The student will work in class with pigments and coloured papers and will be given weekly assignments related to that work.
Three hours per week. Limited enrolment: 20
Session: Winter Day, Winter Evening
*B. Hall*

**FARA90Y** Foundation Studies in Studio
An introduction to basic problems in design and colour and the relation of these problems to the visual arts. There will be an emphasis in this class on each student's exploration and investigation of these problems.
There will be lectures, demonstrations and group critiques.
Exclusion: (FARA70 and FARA71)*
Prerequisite: Students may pre-register but will not be admitted to the course unless granted permission of the instructor during the first week of classes. A portfolio must be submitted at this time.**
Session: Winter Day, Winter Evening
*J. Hoogstraten, B. Hall*
*Students who have completed FARA70 and FARA71 and who wish to enter the Specialist Programme will be given due consideration on submission of a portfolio on the last day of classes.
**Students who are not accepted into FARA90 will be transferred into FARA70 and FARA71 if they so wish.

**FARB70F** Introductory Drawing
An introductory course for students wishing to explore the techniques and concepts of drawing.
This course is designed to introduce the student to the potentials inherent in drawing. Three hours per week of studio work including group and individual critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and submitting a series of finished drawings at the end of term. Limited enrolment: 20.
Prerequisite: FARA90 or permission of instructor
Session: Winter Evening
*J. Hoogstraten*

**FARB72F** Introduction to Printmaking (Screen Process Printing)
Materials and methods in edition printing.
This course is designed to introduce the student to the art of printmaking through the use of the silk screen medium. The course will include lectures and demonstrations of the silkscreen, etching, and lithographic techniques of printmaking. The student will be expected to conceive and print several serigraphs. Trips to public and private galleries to view prints will be mandatory. The class will be held three hours every week. Lab fee $30.00. Limited enrolment: 15.
Prerequisite: FARA90 or permission of instructor
Corequisite: FARB70
Session: Winter Day
*D. Holman*

**FARB74S** Intermediate Drawing
An investigation of the creative act of drawing and its use in the development of the artist's personal visual perception.
This course will give Fine Art students an opportunity to expand their knowledge and skills in the art of drawing. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. The final portfolio must include all the drawings done for projects, drawings done from the models, and the sketchbook(s). Limited enrolment: 20.
Prerequisite: FARA90 or permission of instructor
Session: Winter Day
*D. Holman*

**FARB75Y** Introduction to Painting
An introduction to principles and techniques of painting. Emphasis will be placed on experimentation and the investigation of the possibilities of painting.
There will be both group and individual critiques held at appropriate intervals during the course. Students who lack the prerequisite but have some painting experience are invited to apply for permission from the instructor. Limited enrolment: 20.
Prerequisite: FARA90 or permission of instructor
Session: Winter Day
*J. Hoogstraten*

**FARB76A** Intermediate Painting I
A course designed to develop competence in contemporary materials with an emphasis on understanding recent attitudes in painting.
Session: Summer Day - Summer Arts Programme
(See The 1981 Summer Arts Brochure)
*J. Hoogstraten*

**FARB77B** Intermediate Painting II
A continuation of FARB76, designed for the student already competent in the use of materials.
This course allows the student to explore his or her own direction in painting. It encourages personal experimentation with paint and involves discussion of individual and group problems. Limited enrolment: 15.
Prerequisite: FARB76 or permission of instructor
Session: Summer Day - Summer Arts Programme (see The 1981 Summer Arts Brochure)
*B. Hall*

**FARB80F** Drawing from the Figure I
An exploration of some of the aspects of drawing using the figure as the basis for this exploration.
This course will develop concepts in drawing using the figure as subject matter. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. Lab fee $15.00. Limited enrolment: 20
Prerequisite: FARB74 or permission of instructor
Session: Winter Day
*D. Holman*

**FARB81S** Drawing from the Figure II
A continuation of FARB80. Students who have not taken FARB80 should consult the Supervisor. Lab fee $15.00. Limited enrolment: 20.
Prerequisite: FARB74 or permission of instructor
Session: Winter Day
*B. Hall*

**FARB82F** Introduction to Lithography
An introduction to stone lithography edition printing involving a detailed investigation of materials and techniques.
The course will include working demonstrations and lectures explaining and demonstrating the artistic nature of stone lithography. The student will be expected to draw and execute several lithographs. The method will be three hours per week of Studio work. Lab fee $30.00. Limited enrolment: 10.
Prerequisite: FARA90; FARB72 or permission of instructor
Session: Winter Day
*D. Holman*

**FARB83S** Intermediate Lithography
An extension of FARB82.
The objective of the course is to further explore the art of stone lithography in multicolour printing. The content and method are the same as for FARB82F. Lab fee $30.00. Limited enrolment: 10
Prerequisite: FARB82 and permission of instructor
Corequisite: FARB74
Session: Winter Day
*D. Holman*

**FARB84A** Introduction to Etching
An introduction to etching and relief printing exploring the use of materials and techniques involved in the process of creative 'Fine Art Printing'. Lab Fee $30.00
Session: Summer Evening - Summer Arts Programme
(See The 1981 Summer Arts Brochure)
*O. Tamasaukas*

**FARB85B** Intermediate Etching
A studio course designed to expand the student's knowledge of etching and relief printing. Lab Fee $30.00
Session: Summer Day - Summer Arts Programme
(See The 1981 Summer Arts Brochure)
*O. Tamasaukas*

**FARB90F**
**FARB91S** *Supervised Studies in Studio:* Intermediate Level
These courses may be in any of the fields of drawing, painting and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. The courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to meet with instructors on a regular basis for critiques of work in progress.

The proposal submitted to the instructors must specify as clearly as possible the nature of research and experimentation, number of works to be completed, deadlines for projects, and criteria for evaluating the sort of work they wish to do. Students must be prepared to be critical of their own work, and to pursue areas of research determined in co-operation with the instructors. Since these courses usually lead to independent study courses at the C-level, students might consider how they fit into a projected programme of study. Students are also advised to speak to instructors as far in advance as possible of submitting proposals.
Limited enrolment: 3.
Prerequisite: FARA90, and permission of instructor, which is based on the evaluation of the proposal and/or portfolio
Session: Winter Day
*D. Holman, J. Hoogstraten*

**FARB92Y** Introduction to Sculpture Concepts
An investigation of current attitudes in sculpture.

This course will familiarize the student with current explorations of space, time, motion and sound. Practising artists will speak about their concerns in a lecture-discussion format. Students will be required to produce a number of working drawings in response to these and other sculptural concerns. Texts will include Rosalind E. Krauss' *Passages in Modern Sculpture* and Gregory Battcock's *Minimal Art: A Critical Anthology*. Limited enrolment: 15.
Prerequsite: FARA90 or permission of instructor.
Session: Winter Day
*J. Hoogstraten*

**FARC21Y** Advanced Studio: Individual Study in Painting
This course is only for students who would like to develop further a mature painting ability. Students must convince the instructors that they are able and willing to assume the responsibility to carry this course without intensive guidance.

The student will have an opportunity to work independently while receiving ongoing, advanced criticism from the instructors. The content of this course, methods to be used, and evaluation of work are determined co-operatively by the student and the instructors. Limited enrolment: 5.
Prerequisite: Permission of instructor must be obtained by the first week of classes.
Session: Winter Day
*J. Hoogstraten*

**FARC22Y** Advanced Studio: Individual Study in Printmaking
The purpose of this course is to give the promising student an opportunity to work independently while receiving advanced criticism. The content, method and evaluation of the course will be decided upon by both the student and instructor. Limited enrolment: 5.
Prerequisite:
Permission of instructor must be obtained by the first week of classes.
Session: Winter Day
*D. Holman*

**FARC24F**
**FARC25S** Independent Studies in Studio: Advanced Level
These courses may be in any one of the fields of drawing, painting and printmaking. Limited enrolment: 3

Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for the student 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. Content, method and evaluation to be planned in cooperation with instructor.
Prerequisite: FARA70, FARA71; at least one B-level course in the field of study; a portfolio demonstrating proficiency in this field; permission of instructors which is based on the evaluation of the portfolio
*Session: Winter Day*
*D. Holman*

**FARC90F**
**FARC91S** Independent Studies in Studio: Advanced Level
These courses may be in any one of the fields of drawing, painting and printmaking.

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

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

**Courses Not Offered in 1981-82**

**FARB02S** Wallpainting in Ancient Egypt and the Aegean Bronze Age (ca. 3200 B.C.-ca.1200 B.C.)
*Exclusion:* (FARB42)

**FARB04F/S** Archaic Greek Sculpture 650-480 B.C.

**FARB10F/S** Carolingian and Romanesque Art and Architecture
*Pre- or Corequisite:* FARA11 highly recommended

**FARB19F/S** Michelangelo
*Exclusion:* (FARB32)

**FARB29Y** Baroque Painting in the Netherlands
*Exclusion:* (FARB17)

**FARB37Y** From David to Delacroix
*Exclusion:* (FARB13)

**FARB43S** Impressionism
*Exclusion:* (FARB14), (FARB51)

**FARB45F/S** Rembrandt

**FARB48F** Art from 1900 to 1950
*Exclusion:* (FARB28)
*Corequisite:* FARA13 recommended but not required.

**FARB61Y** The Canadian Landscape

**FARB62S** Recent Canadian Art
*Prerequisite:* Another course in modern art is recommended but not required.

**FARC01F/S** Readings in Art History: Marxism and the Arts
*Prerequisite:* One B-level full-course equivalent in the same area

**FARC09F** Advanced Studies in the High Renaissance
*Prerequisite:* FARB15 or FARB22

**FARC16F/S** Expressionist Trends in Western Art from Van Gogh to Jackson Pollock
*Prerequisite:* FARB28 is recommended but not required

# French

*Discipline Representative:* P. Moes

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 FREB06, or simply to begin their study of the subject, will find opportunities in FRE A-level language courses offered throughout the year and/or in the summer at the Scarborough Language Institute. FREB06 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 courses,* offered during the Winter session, which provide language instruction on a three- to four-hour per week basis (A06Y, A16Y, B06Y, B16Y and C06Y);

b *The intensive courses,* available in both Fall and Spring terms, which provide intensive instruction using diversified approaches and which allow students to earn a full course credit during one term (A16A, B06A and B06B, B16B). These courses are designed to permit students to reach rapidly a level of competence in French which will facilitate further university studies;

c *The immersion courses,* available in the Summer term and which are described in detail in the 1981 Scarborough Language Institute Brochure.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Specialist Programme in French are invited to consider taking both FREB06 and FREB02 in their first year, or, if they enrol in intensive courses, to combine FREB06A, FREB16B and FREB02Y. They may then 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 entries under *Language and Literature* and *Modern Languages* 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.

**Specialist Programme in French**

*Supervisor:* S. Mittler

Students should complete twelve full-course equivalents, including:

1 the sequence FREB06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y), (except where substitution of other French courses is permitted for students with special proficiency in the French language)
2 one of the following courses: FREB25Y, FREB42F-43S, FREB48Y, FREC09Y
3 three full-course equivalents in French and French Canadian Literature, 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). Both FREC06Y (FREC01Y) and supervised reading courses may count toward this requirement.
5 It is recommended that the student include in his/her Programme one full-course equivalent from the series FREC02-C07, FREC90 (Supervised Reading) involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2), (3) and (4) above.) Normally, no more than two full-course equivalents in the area of supervised reading may be credited for requirements for the Specialist Programme.
6 Two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor.

The following may not count toward a Specialist Programme:

1 any A-level French course except (FREA01) and (FREA02)
2 FREB11, FREB12, FREB14
3 more than two courses from the series FRE425 to FRE469, (specialized seminars) offered on the St. George Campus.

**Major Programme in French Language**

*Supervisor:* S. Mittler

Students should complete seven full-course equivalents, including:

1 FREB06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
2 two full-course equivalents from the following: FREB07F/S and/or FREB17F/S or FREC16Y (C99Y); FREB25Y, FREB42F-FREB43S, FREB48Y, FREC09Y
3 two other full-course equivalents in French, only one of which may be chosen from group (2).
4 Students may include in their Programme a maximum of one supervised reading course.

The following may not count toward a Major Programme in French Language:

1 any A-level French course except (FREA01) and (FREA02)
2 FREB11, FREB12, FREB14

**Major Programme in French Language and Literature**

*Supervisor:* S. Mittler

Students should complete seven full-course equivalents, including:

1 FREB06Y (FREA01Y), FREB16Y (FREB01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
2 one of the following courses: FREB25Y, FREB42F-43S, FREB48Y, FREC06Y (FREC01Y), FREC09Y, FREC16Y (FREC99Y)
3 three full-course equivalents from the remaining courses in French and French Canadian literature and civilization
4 one additional full-course equivalent in French, to be chosen in the area either of language study or of literature and civilization
5 students may include in their Major Programme a maximum of one supervised reading course

The following may not count toward a Major Programme in French Language:

1 any A-level French course except (FREA01) and (FREA02)
2 FREB11, FREB12, FREB14

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

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

**FREA06Y** Introductory French

A basic course in spoken and written French for students with very little or no background in the language.

Four class hours and one language laboratory hour per week. Information on the textbook will be available in the College Bookstore after June 1, 1981. Students wishing to take this course will be asked to take a placement test to identify those who may have the necessary competence for FREA16.

Exclusion: (FREA00)

Session: Winter Day, Summer Day (see FREA06B in the 1981 Scarborough Language Institute Brochure)

*C. Evans and staff*

**FREA07S** Elementary Conversation I

Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French Language. Information will be available at a later date in Room H332A.

Exclusion: (FREA04)

Co-requisite: FREA06

Session: Summer Day (see the 1981 Scarborough Language Institute Brochure)

**FREA16A** Elementary French

Spoken and written French studies for students with some background in the language but without Grade 13 High School French.

This is an intensive course meeting 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. Consult the College Bookstore after May 1981 for details about text(s) to be used.

Exclusion: Grade 13 French or equivalent.

Prerequisite: FREA06. For those students who lack the prerequisite, admission to this course is through a placement test to be held soon after the beginning of classes.

Session: Winter Day, Summer Day (see FREA16B in the 1981 Scarborough Language Institute Brochure)

*W.J. Bancroft*

**FREA16Y** Elementary French

Spoken and written French studies for students with some background in the language but without Grade 13 High School French.

Four class hours per week are devoted to the study of written and spoken French. There is also one laboratory period a week specifically designed for oral-aural practice. This course prepares students to enter FREB06. Textbooks: *Elan*, by Y. Lenard, and accompanying *Cahier de laboratoire*. Regular class attendance and participation are essential.

Please note that the opportunity is provided to take this course in an intensive version in the Spring and during the Summer session.
Exclusion: Grade 13 French or equivalent
Prerequisite:
FREA06. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes.
Session: Winter Day
*F. Mugnier and staff*

**FREA17S** Elementary Conversation II
Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. Information will be available at a later date in Room H332A. Some background in French is required.
Exclusion: (FREA05)
Co-requisite: FREA16
Session: Summer Day (see the 1981 Scarborough Language Institute Brochure)

**FREB02Y** Introduction to Literary Analysis
An introduction to methods of critical analysis through the study of selected works from the fields of French drama, fiction and poetry of the nineteenth and twentieth centuries.
FREB02 is intended to prepare the student for more advanced study in French and French-Canadian literature. It deals with a wide range of themes, styles and genres, and can also provide, for the non-specialist, an introduction to several major writers of the modern period.
Two hours of classes a week are devoted to *lecture expliquée*, class discussion and student presentations.
Prerequisite: Grade 13 French or equivalent or FREA16 (FREA00)
Co-requisite: FREB06 (FREA01)
Session: Winter Day
*J. Curtis and staff*

**FREB06A/B** Language Practice I
This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.
This is an intensive course designed to bring students to the level of entering FREB16 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. The class meets six hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts, debates and other exercises that class and instructor may choose to devise. There are also two laboratory periods a week specifically designed for oral-aural practice. For students planning to specialize in French, FREB02 is recommended.
Exclusion: (FREA01), native or near-native proficiency in French
Prerequisite: Grade 13 French or FREA16 (or FREA00) or equivalent
Session: Winter Day, Summer Day (see the 1981 Scarborough Language Institute Brochure)
*C. Evans, L. Mignault*

**FREB06Y** Language Practice I
This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.
The class meets three hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts representing various styles and cultures, composition, debates and exercises that class and instructor may choose to devise. There is also one laboratory period a week specifically designed for oral-aural practice.
Please note that the opportunity is provided to take this course in an intensive version either in the Fall or Spring during the day and in the Summer session (see FREB06A/B). For students planning to specialize in French, FREB02 is recommended.
Exclusion: (FREA01), native or near-native proficiency in French
Prerequisite: Grade 13 French or FREA16 or (FREA00) or equivalent
Session: Winter Day
*L.E. Doucette and staff*

**FREB07S** Intermediate Conversation I
Intensive practice in the spoken language through controlled situational oral work and discussion groups. The main objective of this course is to free students from their inhibitions when it comes to communicating orally in French. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. Information will be available at a later date in Room H332A.
Exclusion: (FREB04), (FREB05)
Prerequisite: (FREA00) or FREA16 or Grade 13 French
Corequisite: FREB06
Session: Summer Day (see the 1981 Scarborough Language Institute Brochure)
*L. Mignault*

**FREB16B** Language Practice II
A continuation of FREB06 work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.
This is an intensive course designed to bring students to the level of entering FREC06 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet six hours per week. The titles of required textbooks will be available at the College Bookstore after June 1, 1981.
Exclusion: (FREB01)
Prerequisite: FREB06 or (FREA01) or equivalent
Session: Winter Day, Summer Day (see the 1981 Scarborough Language Institute Brochure)
*C. Evans*

**FREB16Y** Language Practice II
A continuation of FREB06 work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.
This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet three hours per week. The titles of required textbooks will be available at the College Bookstore after June 1, 1981.
Please note that opportunity is provided to take this course in an intensive version in the Spring term and in the Summer session (see FREB16B).
Exclusion: (FREB01)
Prerequisite: FREB06 (FREA01) or equivalent
Session: Winter Day, Winter Evening
*P. Moes and staff*

**FREB17F/S** Intermediate Conversation II
Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of such major regional variants as 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 and contemporary topics. One hour weekly for lecturing, vocabulary building and testing; two to three hours weekly for oral practice. Students should arrange to have no other courses scheduled during the times allotted for this course on the timetable.
Exclusion: (FREB04), (FREB05)
Prerequisite: FREB06 or (FREA01)
Corequisite: FREB16 (SLI only)
Session: Winter Day, Summer Day (see the 1981 Scarborough Language Institute Brochure)
*L. Mignault and staff*

**FREB24Y** French Thought and Literature in the Age of Enlightenment (1715-1789)
An introduction to French Literature of the eighteenth century.
This course deals with the nature of the French Enlightenment and the way in which its principal ideas and ideals find expression in works of fiction as well as non-fiction. Texts include works by the *philosophes* Montesquieu (*Lettres persanes*), Voltaire (*Candide*), Rousseau (*Discours sur l'inégalité*); by the novelist Prévost (*Manon Lescaut*); and by the dramatist Beaumarchais (*le Barbier de Séville*). An anthology, *The Age of Enlightenment*, by Fellows and Torrey (eds.), provides a broad choice of additional texts.
The teaching method involves lectures and discussion.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
*P. Moes*

**FREB26Y** The Romantic Current in French Literature
Analysis of *romanticism* in nineteenth century literature, with attention to the main writers of the period.
Some introductory lectures will be devoted to exploring the origins of French Romanticism, the spread of Romanticism 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 nineteenth century. Please check with College Bookstore after June 1, 1981, for exact titles for 1981-1982.

The course meets for two hours per week. A complete bibliography will be distributed on the first day of class.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
*C. Bertrand-Jennings*

**FREB38F** The Theatre of French Canada
A study of the dramatic literature of French Canada, with emphasis on the period after 1960.

A brief introduction to the history of Theatre in French in this country is provided, but the required texts all come from the period of the past thirty years and are intended to reflect the cultural and political renaissance of Québec and Acadia. Texts will probably include: Crélinas, *Tit-Coq*; Dubé, *Un simple Soldat*; Loranger, *Une Maison, un jour*; Barbeau, *Joualez-moi d'amour*; Tremblay, *Les Belles-soeurs*; Maillet, *La Sagouine*; Boucher, *Les Fées ont soif*.

The teaching method will be mainly that of the discussion-seminar.
Prerequisite: FREB06 (FREA01) or equivalent.
Session: Winter Day
*L.E. Doucette*

**FREB39S** Workshop in Modern French Theatre
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: FREB16 (FREB01) or equivalent language ability.
Session: Summer Day (see the 1981 Scarborough Language Institute Brochure)

**FREB40F** French Classicism: Poetry and Prose
The non-dramatic literature of the seventeenth century: satire, lyric poetry, the essay, the fable and the novel. Attention will be given to several of the major figures whose influence on European as well as on French thought and literary practice was profound and lasting. These include Malherbe, Pascal, Boileau, La Fontaine, La Rochefoucauld, La Bruyère and Mme. de Lafayette.

Classes will be conducted as seminars in French.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
*G. Trembley*

**FREB41S** French Classicism: The Theatre
A study of the development of classical tragedy and comedy in the seventeenth century, with emphasis on themes and dramatic structure as seen through the major plays of the period.

The course concentrates on a few selected plays by Corneille, Molière and Racine, considered both as works of art and as the literary expressions of a specific society.

Classes will be conducted as seminars in French. FREB40 is the recommended companion course.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
*G. Trembley*

**FREB42F** General History of the French Language
The evolution from Latin to Modern French.

This course will include a thorough study of the changes in phonology, orthography, morphology, vocabulary and syntax from Latin to Old, Middle and Modern French. Special attention will be given to the influence of other languages and to social and regional variations. Texts will be Glanville Price, *The French Language, Present and Past*, Wm. Clowes and Sons, London, 1971 and Jacques Chaurand, *Introduction à l'Histoire du Vocabulaire français*, Bordas, Paris, 1977.

The class will meet twice a week for lectures and student presentations (both in French).
Prerequisite:
FREB06 (FREA01). Students specializing in French language and literature are urged to take FREB43S as a companion course.
Session: Winter Day
*C. Evans*

**FREB43S** The French Language in Canada
The history and present state of the French Language in Canada.

Some introductory lectures will be devoted to the expansion of French in North America. The remainder of the course will deal with the way Canadian French now differentiates itself from Standard French, particularly in phonology and vocabulary. Attention will be given to the variations within Canadian French. A list of textbooks will be available at the Bookstore by June 1st, 1981.

The class will meet twice a week for lectures and student presentations (both in French).
Prerequisite:
FREB06 (FREA01). Students specializing in French language or literature are urged to take FREB42F as a companion course.
Session: Winter Day
*C. Evans*

**FREB48Y** Theoretical and Practical Phonetics
A study of modern French pronunciation.

This course will comprise the following: general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation; analysis of a variety of recorded material, including recordings by students themselves.

Basic textbook required: P. Léon, *Prononciation du français standard*. Limited enrolment: 20.
Prerequisite: FREB06 (FREA01)
Session: Winter Day
*G. Trembley*

**FREB49Y** The Twentieth Century: The Search for Identity
A study of the social, political and philosophical ideas of such writers as Camus, Sartre, Malraux, Beckett, Genet and Saint-Exupéry.

Attention will focus on the thematic content of specific texts. Novels will not necessarily be studied in chronological order, although some historical background will be provided.

A detailed bibliography for this course will be provided on the first day of class. Students interested in taking FREB49Y might wish to consult a general account of the twentieth century French novel, e.g., *An Age of Fiction* by Germaine Brée and Margaret Guiton.
Exclusion: (FREB35)
Prerequisite: FREB06 (FREA01)
Session: Winter Evening
*S.E. Mittler, W.J. Bancroft*

**FREB80F** Images of Women in French Literature
A study of women characters in French Literature.

This course consists of an analysis of the portrayal of women and of the concept of femininity as presented by prominent male authors from the seventeenth century to the present. On the one hand stereotyped roles assigned to female characters (wife, mother, sexual object; etc.) will be traced, examined and discussed; on the other hand an effort will be made to discover and investigate the dominant myths women have come to embody for the male imagination and the functions these myths serve (the shrew, the *femme fatale*, etc.).

Readings will include plays and novels by Molière, Flaubert, Maupassant, Claudel, Mauriac and Genet. Please check with College Bookstore after June 1, 1981 for exact titles.
Exclusion: HUMB42
Prerequisite: FREB06 (FREA01)
Session: Winter Day
*C. Bertrand-Jennings*

**FREC06Y** Language Practice III
A continuation of FREB16 (FREB01), including reading, grammar, composition, translation and stylistic exercises, discussion and/or debates.

Emphasis in this course will be put equally on the oral and written components of French through (a) the study of grammar, (b) the reading and analysis of texts in modern prose, (c) the writing of essays in French, (d) discussions in the classroom. The two required textbooks (J. Darbelnet, *Pensée et Structure*; *Contes modernes* 3rd edition), being used in conjunction, are intended to reinforce the students' proficiency in the language.
Exclusion: (FREC01)
Prerequisite: FREB16 (FREB01)
Session: Winter Day, Summer Day (see FREC06B in the 1981 Scarborough Language Institute Brochure)
*C. Bertrand-Jennings and staff*

**FREC02F**
**FREC03S**
**FREC04F**
**FREC05S**
**FREC07S**
**FREC90Y** Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should contact Prof. S. Mittler.
Prerequisite:
One B-level course in the group FREB16 - FREB81, excluding FREB17.
Session: Winter Day

**FREC09Y** *Problems in Translation*
A comparative study of expression in English and French, including practice in translating and analysis of selected examples of the translator's art.

Basic terminology and concepts of comparative stylistics will be studied in *Stylistique comparée du français et de l'anglais* by Vinay and Darbelnet (pub. Beauchemin; text and workbook). On the practical side, there will be translating and discussion of passages in English and in French representing various styles and levels of expression: formal, colloquial, technical, literary, journalistic. The class meets two hours a week for discussion and practical work.
Prerequisite: FREB16 (FREB01)
Session: Winter Day
*J. Curtis*

**FREC10S** Textual Analysis
An in-depth analysis of short literary excerpts from the seventeenth to the twentieth centuries.

*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. A detailed bibliography will be distributed on the first day of class.
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17
Session: Winter Day
*C. Bertrand-Jennings*

**FREC16Y** Advanced French
A language practice course which continues the FREB06-FREB16-FREC06 sequence; it includes reading and composition, translation and stylistics, oral reviews and debates. Information will be available at a later date in Room H332A.

This course is offered only in the immersion programme of the Scarborough Language Institute. *Exclusion: (FREC99)*
Prerequisite: FREC06 (FREC01)
Session: Summer Day (see FREC16B in the 1981 Scarborough Language Institute Brochure)

**FREC25Y** Literature of the Renaissance
A study of sixteenth-century French literature, including Rabelais, Montaigne and the major poets.

During the fall term, the major schools of *poetry and their exponents (Marot, Ronsard, Du* Bellay, d'Aubigné) will be studied. Although some of the texts will be read in modernized versions, a good deal of time will be devoted at first to introducing the student to sixteenth- century French. The second term is devoted to the works of Rabelais and Montaigne. Texts will include Ronsard, *Poèmes* Du Bellay, *Défense et illustration* and poetic works; Rabelais, *Oeuvres complètes;* Montaigne, *Essais*. For useful background reading, see J. Cruikshank, *French Literature and its Background*: I. *The Sixteenth Century*; and D.Stone, *France in the 16th Century*.

The class will meet for two hours of lectures and discussion per week.
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17
Session: Winter Day
*J. Curtis, L.E. Doucette*

**FREC33S** French Civilization: Continuity and Change
Some of the theses of leading French thinkers *concerning the development of France in the* past, present and future.

This course is directed to students who wish a broad historical overview of the social events and literary movements they normally study in period and genre fragments. The first half of the course will look chronologically at behavioural patterns in specific periods of French cultural history that include the Middle Ages, the Renaissance, the Enlightenment and the Romantic era; two of the most enduring patterns, the rational and individualist traditions, will then be analysed and their mutation through the centuries developed as a focus through which to view, in the second half of the course, contemporary French issues such as technological progress, superpower alternatives, mass consumption and the safeguarding of the quality of life. Texts, alternately artistic, sociological, economic or political in content, will include selections from A. Peyrefitte, *Le mal français*, A. Touraine, *La société invisible*, M. Foucault, *Les mots et les choses*, H. Lefebvre, *La vie quotidienne dans le monde moderne*, and other works.

Teaching method will combine lectures and seminar discussion.
Prerequisite:
One B-level course in the group FREB16 - 81, excluding FREB17; or permission of instructor.
Session: Winter Day
*S.E. Mittler*

**FREC39S** French-Canadian Poetry
The development of Canadian poetry in French from the middle of the nineteenth century to the present, with emphasis on the contemporary period.

After the initial few lectures in which a general introduction to prosody and to the origins of French-Canadian poetry is provided, this course is heavily weighted towards the twentieth century. Much emphasis will be given to modern poets such as Saint-Denys Garneau, Anne Hébert and Alain Grandbois. *Texts will include* Guy Sylvestre's *Anthologie de la poésie québécoise* and paperback editions of works by various individual authors, depending on availability.

The teaching method will be mainly that of the seminar.
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17
Session: Winter Day
*L.E. Doucette*

**FREC40Y** Modern French Poetry from Baudelaire to Valéry
A study of such major nineteenth century post-Romantic poets as Baudelaire, Gautier, Nerval, Verlaine, Mallarmé and Rimbaud. Twentieth century poets will include such major figures as Apollinaire, Péguy, Claudel and Valéry. Emphasis will be placed on the characteristic aspects of French poetry and on poetic analysis rather than on historical development.
Prerequisite:
One B-level course in the group FREB16 - FREB81, excluding FREB17
Session: Winter Day
*W.J. Bancroft*

**Courses Not Offered in 1981-82**

**FREA11F** Man and Society in French Fiction
*Prerequisite:* Reading knowledge of French tested by an entrance examination for students without Grade 13 French

**FREA12S** Man and Society in French-Canadian Fiction
*Prerequisite:* Reading knowledge of French tested by an entrance examination for students without Grade 13 French

**FREB11F** Topics in French Literatures I: Politics in Quebec Literature
*Prerequisite:* Reading knowledge of French tested by an entrance examination for those without Grade 13 French

**FREB12S** Topics in French Literatures II: Love and Honour
*Prerequisite:* Reading knowledge of French tested by an entrance examination for those without Grade 13 French

**FREB14S** Topics in French Literatures III: The Rural Novel in Quebec
*Prerequisite:* Reading knowledge of French tested by an entrance examination for students without Grade 13 French

**FREB20Y** French Civilization: The Vision of Man
*Prerequisite:* FREB06 (FREA01)

**FREB25Y** Introduction to French Linguistics
*Prerequisite:* FREB06 (FREA01)

**FREB29F** French Drama of the Eighteenth Century
*Prerequisite:* FREB06 (FREA01)

**FREB30F** French Theatre of the Early Modern Period
*Prerequisite:* FREB06 (FREA01)

**FREB31S** Contemporary French Theatre: The Theatre and the Absurd
*Prerequisite:* FREB06 (FREA01)

**FREB34Y** From Romanticism to Naturalism
*Exclusion: (FREB32); (FREB33)*
*Prerequisite:* FREB06 (FREA01)

**FREB36F** French-Canadian Novel to 1945
*Prerequisite:* FREB06 (FREA01)

**FREB37S** French Canadian Novel since 1945
*Prerequisite:* FREB06 (FREA01)

**FREB70Y** The Twentieth Century: In Search of the Novel
*Prerequisite:* FREB06 (FREA01)

**FREB81S** Women's Consciousness in French Literature
*Prerequisite:* FREB06 (FREA01)

**FREC22Y** Introduction to Medieval French Language and Literature
*Prerequisite:* One B-level course in the group FREB16 - FREB81, excluding FREB17

**FREC24S** The French Novel in the Eighteenth Century
*Prerequisite:* One B-level course in the group FREB16 - FREB81, excluding FREB17

**FREC34F** Cross-currents in Contemporary French Fiction
*Prerequisite:* One B-level course in the group FREB16 - FREB81, excluding FREB17

**FREC60F** Modern Literary Theorists
*Prerequisite:* One: B-level course in French literature, excluding FREB02 (FREA01), FREB06, FREB11, and FREB12

# Geography

*Assistant Chairman:* E.C. Relph

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

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

**Specialist Programme in Geography**
*Supervisor:* A.G. Price

The Specialist Programme in Geography offers the opportunity to explore some aspect of the discipline in considerable depth without sacrificing the breadth that characterises the discipline.

It is possible to complete a Specialist Programme in Geography by following one of two options.

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

*OPTION A*
*Human Settlements*

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

1. GGRA04Y and GGRA05Y
2. GGRB02Y or GGRB25Y
3. GGRC01Y and GGRC12F/S
4. At least three full-course equivalents from GGRB01Y, GGRB05Y, GGRB13Y, GGRB17Y, GGRB27F/GGRB28S, and whichever of GGRB02Y or GGRB25Y has not been taken under requirement 2 above.
5. At least two and one-half full-course equivalents from GGRC04F/S, GGRC13F/S, GGRC34F/S, GGRC18F/S, GGRC20F/S, GGRC24F/S, GGRC29F/S, GGRC31F/S, GGRC33Y
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

*OPTION B*
*Environmental Geography*

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

1. GGRA04Y and GGRA05Y
2. GGRB02Y or GGRB25Y
3. GGRC01Y and GGRC12F/S
4. At least three full-course equivalents from GGRB01Y, GGRB03Y, GGRB07Y, GGRB15Y, GGRB19Y, GGRB24Y, GGRB29Y, and whichever of GGRB02Y or GGRB25Y has not been taken under requirement 2 above.
5. At least two and one-half full-course equivalents from GGRC05F/S, GGRC24F/S, GGRC25F/S, GGRC28Y, GGRC29F/S, GGRC30F/S, GGRC32F/S.
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

**Major Programme in Geography**
*Supervisor:* J. Miron

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

The Programme requires completion of the following seven courses:

1. GGRA04Y *and* GGRA05Y
2. GGRB25Y (GGRB02Y may be substituted)
3. At least two full-course equivalents from:
   GGRB01Y or GGRB24Y
   GGRB03Y or GGRB19Y
   GGRB05Y or GGRB27F/GGRB28S
   GGRB13Y or GGRB17Y
   GGRB07Y or GGRB15Y
   GGRB29Y
4. At least two full-course equivalents from: GGRC04F/S, GGRC13F/S, GGRC18F/S, GGRC20F/S, GGRC28Y, GGRC29F/S, GGRC31F/S, GGRC33Y, GGRC34F/S

**GGRA04Y** The Nature of Human Geography
Comparison of the major approaches to human geography - historical process, spatial organization, resources and environment, landscape and culture.

The course aims to identify and discuss some of the fundamental concepts of human geography, and to demonstrate the nature of the major approaches to the subject. The course consists of four main sections: i) human settlements and urbanization, ii) spatial patterns and disparities, iii) environmental and resource use and abuse, iv) modern landscapes and urban design. The teaching method will consist of lectures and tutorials.
Session: Winter Day
*M.F. Bunce, E.C. Relph*

**GGRA05Y** Introduction to Physical Geography
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 general interest to students in both the physical and life sciences. The teaching method consists of lectures and laboratories.
Session: Winter Day, [redacted]
*R. Bryan and A.G. Price*

**GGRB01Y** Geography of Resources
Problems of resource use with particular reference to their environmental setting: (i) definition and classification of resources, (ii) special prob-

lems relating to agricultural resources, (iii) specific aspects of the use of non-agricultural resources, (iv) an examination of the use, 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 law, problems of land management in Canada. The teaching method consists of two hours of lectures per week.
Prerequisite: GGRA04 or GGRA05.
Session: Winter Day
*W. Cowie*

**GGRB02Y Analytical and Quantitative Methods in Geography**
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 autocorrelation. Elementary computer programming is also included.

The teaching method consists of two hours of lectures, and two hours of labs per week.
Exclusion: ECOB11, PSYB07; STAB52, STAB57
Prerequisite: GGRA04 or GGRA05
Session: Winter Day
*J. Miron*

**GGRB03Y Climatology**
An introduction to the scientific analysis of world climate through study of the governing physical and dynamic 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: radiation and energy balance on a small scale; surface effects on these balances; gas flow in the atmosphere, atmosphere motion and winds; atmospheric water vapour and clouds, global circulation; air masses and fronts. Climatic variables, their measurements and use. Climatic change and the effect of climate on social and industrial activities. Teaching method consists of lectures and laboratories.
Prerequisite: GGRA05
Session: Winter Day
*G. Szeicz*

**GGRB05Y Urban Geography**
A study of the forces and processes which give rise to urban places, which influence the growth and development of cities and systems of cities, and which influence the location of various types of human activities in the city.

The first half of the course focuses on the city in history and on urban systems - their evolution, regulation, classification, and abstract representation. The second half is concerned with the internal structure of the city, concentrating on residential, commercial and industrial land use patterns, and on transportation, migration and planning. Examples will be drawn in part from Canadian cities. There will be two hours of lectures per week.
Session: Winter Day
*P. Moore*

Cancelled

**GGRB07Y Geomorphology: The Pleistocene Epoch**
Centered around the theme "Morphology and Process"; 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.
Prerequisite: GGRB19
Corequisite: GGRB02; GGRB03
Session: Winter Day
*B. Greenwood*

**GGRB13Y Modern Landscapes and Built Environments**
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 deficiencies of twentieth century built environments. Various approaches to environmental design will be examined. Field trips are planned during the fall term.
Prerequisite: GGRA04; students with GGRA05 admitted with permission of instructor.
Session: Winter Day
*E.C. Relph*

**GGRB17Y Rural Geography**
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.
Prerequisite: GGRA04; students with GGRA05 admitted with permission of instructor.
Session: Winter Day
*M.F. Bunce*

**GGRB19Y General Geomorphology**
Processes of surficial material development and landform evolution; weathering processes and soil development; hillslope form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes; Pleistocene and present day glaciation; geomorphology as an applied geotechnical field.

The teaching method consists of field excursions, laboratories, lectures.
Prerequisite: GGRA05
Session: Winter Day
*B. Greenwood and R. Bryan*

**GGRB24Y Environmental Pollution**
The physical causes of environmental degradation are treated, with emphasis on the pollution of water systems by human usage. The course outlines the types and sources of major pollutants and suggests strategies to reverse or avoid the deteriorations caused by them.

The aim is to examine the complexity of the controls in undisturbed water-air systems, and to give students an understanding of how the residue of human population and usage of water and solid resources change the controls and degrade the quality of natural systems. Teaching method: two hours of lecture and one hour of lab. per week.
Exclusion: (GGRC23)
Session: Winter Day
*A.G. Price*

**GGRB25Y Geographic Methods**
Introduction to basic methods in geography, including elementary data handling, graphic and cartographic representation, map and air photo interpretation, field study and survey methodology.

The aim of the course is to equip students with skills necessary for the analysis of various geographical problems. Teaching method will consist of one two-hour lecture and one two-hour laboratory per week.
Exclusion: GGRA03. Students who have completed *both* GGRB21 *and* B22 are also excluded from taking this course for credit.
Session: Winter Day
*P. Moore*

**GGRB27F Development Principles in Geography I**
An introduction to theories of growth and development with emphasis on spatial or locational implications. Course topics include spatial patterns in economic activity, theories of trade and regional specialization, patterns of urbanization and their role in regional development, and the planning and management of growth.

In this course, spatial patterns of development and growth will be related to location and trade theories, land allocation processes, urban growth theory, city system linkages, and polarization forces. The role of the planner in shaping changes to these patterns will also be discussed. This course is intended to be taken in conjunction with GGRB28S. There will be two hours of tutorials per week plus an additional tutorial hour as needed.
Exclusion: (GGRB06)
Prerequisite: An A-level course in the Social Sciences.
Session: Winter Day
*J. Miron*

**GGRB28S Development Principles in Geography II**
An evaluation of the spatial and locational implications of economic and societal change. Varying theoretical interpretations of

economic growth are presented and analysed, and their value as tools for understanding spatial processes discussed.

In the course, the theories of the classical, neo-classical, and structuralist schools of economic and social development are discussed in relation to processes of urbanization, industrialization, removal polarization, migration and spatial inequality. The implications of each theory for planning and policy formulation will also be discussed. This course is intended to be taken with GGRB27F. There will be two hours of tutorials per week plus an additional tutorial hour as needed.
Exclusion: (GGRB06)
Prerequisite: GGRB27
Session: Winter Day
*W. Cowie*

**GGRB29Y** Soil Management and Conservation
Application of soils geography to problems of resources use and management. Soil erosion and conservation procedures. Drainage and reclamation of wet soils; reclamation of polder soils. Soil surveys and agriculture. Problems of soils in Arctic and Sub-Arctic. Soils of arid and semi-arid lands; irrigation salinization, reclamation.
Exclusion: (GGRC15)
Prerequsiite: GGRA04 and GGRA05
Session: Winter Day
*B. Bryan*

**GGRC01Y** Supervised Research
A research project under the supervision of an interested member of faculty. The project will culminate in a written report in the form of a dissertation. This may be based upon the results of library or archival research, field study, data analysis or other appropriate methods. Students will meet as a group with the coordinator as well as having frequent contact with their supervisor.
Prerequisite: Any fifteen full-course equivalents. By the end of the year in which the student takes this course, at least eight full-course equivalents in Geography (not including GGRC01) must have been completed.
Session: Winter Day
*Coordinator: B. Greenwood*

**GGRC04F** Urbanization and Residential Geography
A study of residential areas in the modern city, with a strong focus on the Toronto region. The overall emphasis is on the manner in which residential geography is a part of, as well as a reflection of, important political, economic and social processes.

The course begins with a consideration of past and present trends in urbanization, and their relevance for regional planning and urban government. The major focus of the course is on residential differentiation or segregation and associated processes of neighbourhood change in the city, and on the quality of the residential environment, the provision of public goods, planning and the political processes involved. Each two-hour class will consist of a general lecture, a seminar presentation by a student and a discussion.
Prerequisite: GGRB05
Session: Winter Day
*P. Moore*

**GGRC12F** Contemporary Issues in the Philosophy of Geography
An examination of the major themes in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, philosophy of history, etc.). Alternative philosophical approaches of increasing popularity (phenomenology, Marxism, conceptual analysis) are also considered.

The aim of this course is to examine the relationships between the various types and approaches of geography, and to demonstrate some of the implications of the most widely adopted approaches. The teaching method consists of lectures and seminars.
Prerequisite: Any ten full-course equivalents. By the end of the year in which the student takes this course at least five other full-course equivalents in Geography must have been completed.
Session: Winter Day
*E.C. Relph*

**GGRC18F** Urban Transportation Policy Analysis
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 of lectures per week.
Prerequisite: GGRB05 or GGRB06.
Session: Winter Day
*J. Miron*

GGRC20S
Summer course

**GGRC25S** Sedimentary Models
Basic principles of sediment transport mechanics necessary for the interpretation of the physical properties of sedimentary bodies. 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, tectonics and sedimentation, cyclic sedimentation, facies models, paleohydraulic 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/or field trips - two hours per week.
Prerequisite: GGRB19, (GGRB07), or GGRB15
Session: Winter Day
*B. Greenwood*

**GGRC28Y** The Hydrology of Surface and Subsurface Waters
A quantitative study of the processes governing the behaviour of water at or near the surface of the earth. Conventional techniques 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: our lack of understanding of the operation of natural hydrologic processes; and our inability to predict and understand the consequences of our manipulations of the unforeseen consequence of other activities. It is hoped that this course will result in a better understanding of those 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.
Exclusion: (GGRB18)
Prerequisite: GGRB02 or GGRB03 or GGRB19 or GGRB24
Session: Winter Day
*A.G. Price*

**GGRC29S** Problems in Modern Agricultural Land Use
Examination of the land use problems created by rapid changes in modern agriculture. Emphasis will be placed upon the impact of high technology, corporate economics and urbanization upon agricultural land use and landscapes.

The course is thematic in approach and will include such topics as changes in land tenure, chemical applications in farming, the agribusiness, fragmentation, land abandonment and conversion, urbanization of farmland. Teaching method consists of a two-hour seminar each week plus individual consultation.
Prerequisite: One of GGRB01, GGRB13, GGRB17, GGRB28
Session: Winter Day
*M.F. Bunce*

**GGRC30F** Bioclimatology
An examination of the environmental aspects of the surface energy exchanges that are important in some advanced branches of physical geography and ecology. Instrumental measurements of radiative and mass fluxes (i.e. water vapour) are linked to the behaviour of vegetative cover, and the resultant physiological responses on the ecosystem are quantitatively evaluated. Leaf temperature, soil moisture status, leaf area, etc. are linked to environmental parameters and their role in the local surface energy balance is shown.

Some major topics are: solar and long wave radiation balance over different surfaces; penetration of solar radiation in plant communities; effect of soil moisture on stomatal behaviour and productivity of ecosystems; models of water and carbon flow through ecosystems.

Teaching method: lectures and practical sessions.
Prerequisite: GGRB03
Session: Winter Day
*G. Szeicz*

**GGRC31S** Development and Planning of Metropolitan Regions
An advanced analysis of the recent growth history of metropolitan regions, its causes, the public policy issues raised by them, and the roles and impacts of public planning policies.

The course is designed for students interested in either urban geography or urban and regional planning. It focusses on the insights which can be gained from recent empirical research. First-hand readings of important studies will help the student to develop a critical awareness of approaches and issues in research in this area. The teaching method will consist of two hours of lectures per week. A tutorial hour will be arranged to handle problems with the lecture or reading material.
Exclusion: (GGRC27)
Prerequisite: One of GGRB05, GGRB06, GGRB27/GGRB28, ECOB47, POLB88, SOCB05
Session: Winter Day
*J. Miron*

**GGRC33Y** Africa: Perspectives in Geography and Development
Patterns of regional and national variation in Africa are discussed. Emphasis is placed on the process of historic, ecological and social change, and its impress on the African landscape. Consideration is given to the role of Africa in the modern world economy as well as the patterns and processes of urbanization, industrialization, and regionalization.
Among the themes emphasized, particular prominence is given to the forces and factors which make the African continent a source of economic, politcal and social instability. The teaching method consists of one two-hour lecture per week.
Exclusion: (GGRB26)
Prerequisite: One of GGRB01, GGRB05, GGRB06, GGRB17; or one B-level course in development studies in economics, political science or sociology.
Session: Winter Day
*W. Cowie*

**GGRC34F** Landscape Interpretation
Ways of interpreting and analyzing landscapes through field investigations of specific places, both urban and rural. The course involves a number of field trips (held in class time) followed by discussion and analysis of observations, with an emphasis upon idividual landscape features and methods of observation and interpretation.
Limited enrolment: 20.
Exclusion: (GGRC17)
Prerequisite:
One of GGRB05, GGRB13, or GGRB17; students with other Geography courses or courses from other disciplines with permission of instructor.
Session: ~~Winter Day~~ summer every 2
*E.C. Reiph*

**Courses Not Offered in 1981-82**

**GGRB15Y** Coastal Geomorphology
*Prerequisite:* (GGRB19)
*Corequisite:* None, but GGRB02 highly recommended.

**GGRC05F** Theory and Method in Modern Quantitative Geomorphology
*Prerequisite:* GGRB19, GGRB07 or GGRB15
*Corequisite:* None, but GGRB02 is strongly recommended.

**GGRC13S** A Theoretical Approach to Political Geography
*Prerequisite:* Any two of GGRB01, GGRB05, GGRB06, GGRB13, GGRB17, POLB70, POLB71.

**GGRC20S** Rural Planning and Development
*Prerequisite:* GGRB05, GGRB13 or GGRB17. Students with a background in other Social Science disciplines may be interested in this course: they will be admitted with permission of instructor.

**GGRC24S** Advanced Quantitative Methods
*Prerequisite:* GGRB02

**GGRC32S** Research Seminar in Soil Management
*Prerequisite:* GGRB29 (or GGRC15)



# Geology

*Discipline Representative:* J.A. Westgate
Geology is concerned with the origin and evolution of the Earth as evidenced primarily through the study of rocks. The subject is multidisciplinary in nature and draws heavily upon the physical and biological sciences. Students wishing to pursue a specialist programme in Geology at the College should register in the Terrain and Environmental Earth Sciences (TEES) Programme. Further details on the Geology programme at the University of Toronto are given in the booklet entitled: Undergraduate Studies in Geology at the University of Toronto, which is available from the Discipline Representative and Student Services.

**Specialist Programme in Terrain and Environmental Earth Sciences**
*Supervisor:* J.A. Westgate
The TEES Programme draws upon courses offered at Scarborough College as well as those given on the St. George Campus, and involves the subjects of Geology, Physical Geography, Geotechnical Engineering, and the basic sciences.
The programme comprises seventeen and one-half full courses. In addition, two field courses must be taken beyond the twenty courses required for the Four Year Degree.

*First year:*
GLGA01Y Introductory Geology
GGRA05Y Introductory Physical Geography
MATA26Y Calculus
or
MATA55Y Calculus with Analysis
CHMA02Y General Chemistry
PHYA02Y Principles of Physics

*Second year:*
GLGB01Y Introductory Mineralogy and Petrology
GLGB02S Principles of Stratigraphy and Sedimentology
GGRB19Y General Geomorphology
MATB41F Techniques of the Calculus of Several Variables I
MATB42S Techniques of the Calculus of Several Variables II
or
MATB50F Analysis I
MATB55S Analysis II
CHMB03Y Physical Chemistry I
CSCA56F Computer Programming
or
CSCA58F Introduction to Computing

*Third year:*
GLG320Y Petrology I
GLG331H Introduction to Geochemistry
GGRB07Y Geomorphology: The Pleistocen Epoch
or
GLG326F Glacial and Periglacial Geology
GGRC28Y Hydrology of Surface and Subsurface Waters
MATC51F Differential Equations I
GLG325Z Field Trip I

*Fourth year*
GLG332F Geometry and Kinematics of Tectonic Structures
GLGC01Y Fluid Flow in Porous Media: Groundwater
GLG400H Environmental Geochemical Ana ysis
CIV323F Geotechnical Engineering
GGRC25S Sedimentary Models
or
GLG429S Sedimentology of Clastic Rocks
GLGC02S Quaternary Stratigraphy
GLGC03H Current Environmental Issues in the Earth Sciences: case historie
JGGC01Z Field Trip II
Options: Students are strongly encouraged to consider courses in the wide range of other disciplines available at the College.

**GLGA01Y** Planet Earth: an Introduction to Geology
Fundamental concepts of physical and historic geology are discussed in the context of the Eart as a planet. The first part of the course deals wit the composition, structure and origin of the Earth and the physical processes that operate c and in it. The second part details the chronolog cal succession of physical and biological even on the Earth as revealed in the rock record.
Exclusion: GLGA02
Prerequisite: None, but one Grade 13 course in Mathematics and Grade 13 Chemistry or Biolog or Physics are strongly recommended.
Session: Winter Day
*J.A. Westgate, S. Robertson*

**GLGA02S** Geology in the Urban Environme
The course is designed to show the relevance o geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The inte action of these natural processes with urban

communities will be stressed. No prior knowledge of the Earth Sciences is required.

Specific topics include: The Earth as a planet; earthquakes; the architecture and composition of the earth's crust; volcanic terrains; processes associated with the hydrologic cycle; the Great Lakes; the impact of the growth of a large urban area, such as Metropolitan Toronto, on the natural physical environment.

Throughout the course an awareness of the importance of the geological heritage of southern Ontario will be developed, and the processes that shaped its environment will be described. The input of geology into planning will be discussed.

Exclusion: GLGA01
Session: Winter Day
*W.M. Tovell*

**GLGB01Y** Introductory Mineralogy and Petrology
Crystallography, physical properties, chemical properties, origin and occurrence of minerals, and descriptive mineralogy of approximately eighty common or useful minerals. Optical mineralogy and identification of the principal rock-forming minerals in thin section by use of the polarizing microscope; introduction to petrography.
Prerequisite: GLGA01, CHMA02
Session: Winter Day
*D. Gorman, J. Gittins*

**GLGB02S** Principles of Stratigraphy and Sedimentology
*Physical and chemical processes of sedimentation*, properties and classification of sedimentary rocks, sedimentary environments and facies, diagenesis, stratigraphic nomenclature and classification.
Prerequisite: GLGA01
Corequisite: GLGB01
Session: Winter Day
*J. Westgate, B. Greenwood*

*Discipline Representative:* H. Wittmann
Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria and part of Switzerland. Language and literature courses may be combined in various ways by students who have completed the prerequisite courses. Also available are Major Programmes in German Language or German Language and Literature, and a Specialist Programme in German Area Studies. All Programmes include a sequence of language courses in order to maintain continuity in the development of practical skills.

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

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

Required for every student are the German language courses GERB19Y, GERB20Y, GERC10Y, and two full-course equivalents in German Literature. Four full-course equivalents are to be chosen from one of the core groups A, B, or C. The remaining three full-course equivalents should be selected from groups A - E, excluding your core choice.

*A* History
- HISA01Y The European World
- HISB17Y Germany in the 19th and 20th Centuries
- HISC17Y European Society and Culture Between the World Wars
- HISC19S Weimar Culture

plus one course from among:
- HISB13Y Europe in the Reformation Era 1500-1650
- HISB15Y Aspects of European Social History 1789-1918
- HISB18Y Europe under the Enlightened Despots

*B* The Arts
- MUSA01Y Introduction to Music
- MUSB02F Music of the Classic Period
- MUSB06F Music of the Romantic Period

plus one full-course equivalent from among the following:
- FARA12F Renaissance and Baroque Art
- FARB10F Carolingian and Romanesque Art and Architecture
- FARB11F/S Gothic Architecture
- FARB16Y The Arts in Northern Europe ca. 1400-1500
- FARB45F/S Rembrandt
- FARB48F Art from 1900-1950
- FARC01F/S Readings in Art History: Marxism and the Arts
- FARC16F/S Expressionist Trends in Western Art From Van Gogh to Jackson Pollock
- MUSB01S Music of the Twentieth Century
- MUSB05S Music of the Baroque Era
- MUSB07F The Symphony
- MUSB13F/S Bach

*C* Philosophy
- PHLA01Y Fundamental Questions of Philosophy
- PHLB12F/S Marx and Marxism
- PHLB30F/S Existentialism
- PHLB48F Philosophy in the Later Modern Age I
- PHLB49S Philosophy in the Later Modern Age II

plus one full-course equivalent from among the following:
- PHLB03F/S Philosophy and Art
- PHLB04F/S Philosophy in Literature
- PHLB16F/S Philosophy of History
- PHLB60F/S Existence and Reality
- PHLB70F/S Philosophy of Science
- PHLB80F/S Philosophy of Language
- PHLB46F Philosophy in the Early Modern Age I
- PHLB47S Philosophy in the Early Modern Age II

*D* Politics and Economics
- ECOB61S International Economics: Finance
- ECOB62F International Economics: Trade Theory
- ECOB68F/S Comparative Economic Systems
- ECOB82Y European Economic History
- ECOC07F The Economics of Karl Marx
- POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries
- POLB85Y Comparative Politics of Industrial Societies
- POLC70Y Twentieth Century Political Thought
- POLC86F/S Intergovernmental Relations in the European Economic Community

*E* Drama and Humanities
- DRAB02Y The Directors' Theatre
- DRAB04Y The History of the Theatre II
- DRAC11Y Individual Studies in German Theatre and Drama
- HUMB29S Religion and Western Culture
- HUMB43F/S The Emergence of Modern Prose
- HUMB44F/S Disaster and the Literary Imagination
- HUMC19F Contemporary Fiction and its Background

Students interested in German Area Studies should contact the Supervisor as soon as possible to ensure that a satisfactory and cohesive sequence of courses is selected.

**Major Programme in German Language**
*Supervisor:* H. Wittmann
The Programme consists of the following courses:
- GERA09H Language Practice I
- GERA10Y Introductory German
- GERB19Y Language Practice II
- GERB20Y Intermediate German
- GERB24F/S The Last Hundred Years
- GERB33F/S Practicum in the History and Structure of the German Language
- GERB50F/S Methods of Interpreting Literature
- GERC10Y Advanced Conversation and Composition
- LINA01Y General Linguistics

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

**Major Programme in German Language and Literature**
*Supervisor:* H. Wittmann
The Major in German Language and Literature consists of seven full-course equivalents including GERB19Y, GERB20Y and GERC10Y. At least four full-course equivalents must be taken in German Literature. GERA09H and GERA10Y do not count towards the requirement.

See also the Specialist Programmes in *Modern Languages* and *Language and Literat*

**GERA09H** Language Practice I
A practicum offered in conjunction with GERA10Y. The focus is on pronunciation and elementary oral composition.

This practicum is designed to reinforce and supplement by oral drills and practice the grammar work done in GERA10Y, 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.
Corequisite: GERA10
Session: Winter Day
*U. Sherman*

**GERA10Y** Introductory German
The fundamentals of grammar and syntax.

In this course the students will acquire a basic knowledge of the German language. One comprehensive textbook will be used and a variety of reading materials will be introduced to initiate conversation.

The students are exposed to the four language skills from the beginning of the course (listening, speaking, reading, writing). They are encouraged to practise these skills in a variety of combinations. There are four hours of intensive grammar and structural work per week.
Corequisite: GERA09
Session: Winter Day
*U. Sherman*

**GERB19Y** Language Practice II
A practicum offered in conjunction with GERB20Y. The focus is on oral and written composition at the intermediate level.

This practicum is designed to increase the students' vocabulary and fluency in German. There are three hours of supervised discussion, essay writing and reading each week.
Prerequisite: Grade 13 or GERA09 and A10
Corequisite: GERB20
*Session: Winter Day*
*H. Ohlendorf, H. Wittmann*

**GERB20Y** Intermediate German
Intensive language work focusing on readings and oral and written composition.

The course is designed to expand the active and passive vocabulary of the students through a variety of reading materials. A thorough grammar review accompanies the reading selections. As the course progresses, the emphasis will shift to literary discussions and conversation. Short stories will supplement the textbook. Mimeographed material on current events will be introduced from time to time to spark class discussion.

Three hours of lectures per week. The students are expected to prepare homework assignments and participate in class discussions.
Prerequisite: Grade 13 German or GERA09 and A10
Corequisite: GERB19
Session: Winter Day
*U. Sherman*

**GERB24S** The Last Hundred Years
German Civilization from 1870 to the present.

Beginning with the unification of Germany in 1871, we will examine the impact of the two World Wars, the democratic interlude and the rise of Nazism on the social and artistic life of Germany. A close look at present day Germany, East and West, will conclude the course. Three lecture and discussion sessions per week.
*Session: Winter Day*
*U. Sherman*

**GERB50S** Methods of Interpreting Literature
An introduction to the techniques of literary analysis.

Poems and short pieces of prose will be analysed in close reading. Prosody and metrics will be dealt with in some detail; special attention will also be given to the relationship between form and content. In the final section patterns of rhetoric, syntax, and style will be investigated in the analysis of prose texts. The course is intended to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.

All sessions are informal tutorials: they have free-flowing discussions with a high degree of student involvement. Each student is asked to prepare a number of short presentations.
Prerequisite: GERB19 and B20
Session: Winter Day
*H. Wittmann*

**JHGB52F** The Holocaust in German Literature
An investigation of the treatment of what the Nazis termed the "Final Solution" in major works of modern German Literature.

This course attempts to illustrate the preoccupation of post-war writers of German Literature with one of the darkest chapters in the history of Germany, a country whose language they had inherited as their means of artistic expression. It will explore the dilemmas as well as the new sense of mission of these writers of German Literature. All works will be read in English translations. Among the works studied will be R. Hochhuth's *The Deputy*, P. Weiss' *The Investigation*, J. Lind's *Soul of Wood*, A. Segher's *The Seventh Cross*, as well as poetry by N. Sachs, and P. Celan.

The class will meet for two hours of a mixture of lectures and discussion sessions per week.
Session: Winter Day
*H. Wittmann*

**GERB63F** Nineteenth Century Drama
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 nineteenth 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 or which they themselves begin. The plays will also be looked at as 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.
Prerequisite: GERB19 and GERB20
*Session: Winter Day*
*H. Wittmann*

**GERB70S** Twentieth Century Drama
A study of plays from Expressionism to the present.

Modern German theatre from Brecht to Handke 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 is intended 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.
Prerequisite: GERB19 and GERB20
Session: Winter Day
*H. Wittmann*

**GERC10Y** Advanced Composition and Conversation
The refining of the skills of oral and written composition, textual analysis and translation.

This course is a continuation of GERB30. 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.
Prerequisite: GERB19 and B20 or GERB30
Session: Winter Day
*H. Ohlendorf*

**GERC13Y** Classicism
A study of Classicism, with particular attention to Schiller and Goethe. Reference will also 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 und Drang" period. We will read plays, novels, poetry, and essays. The background against which the texts will be read is that of Classicism, 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.
Prerequisite: GERB19 and B20 and one full-course equivalent from among the B-level literature courses
Session: Winter Day
*H. Ohlendorf*

**GERC30, 33, 43F**
**C36, 40, 46S**
**C48Y** Supervised Reading
The course is designed to give senior students an opportunity to follow up on ideas generated during the more formal courses of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student. Informal tutorials.

Two medium length papers or one major paper.
Prerequisite: GERB30
Session: Winter Day
*Staff*

**Courses Not Offered in 1981-82**

**GERB33S** Practicum in the History and Structure of the German Language
*Prerequisite:* Grade 13 German or GERA09 and GERA10

## Greek

| | |
|---|---|
| **JHGB50Y** | The Development of German Drama<br>*Exclusion:* (GERB40) |
| **JHGB51Y** | Masterpieces of the German Novel from the 18th Century to the Present<br>*Exclusion:* (GERB43) |
| **GERB60F** | Nineteenth Century Prose<br>*Prerequisite:* GERB19 and B20 |
| **GERB66S** | Twentieth Century Prose<br>*Prerequisite:* GERB19 amd B20 |
| **GERB73F/S** | Modern German Poetry<br>*Prerequisite:* GERB19 and B20 |
| **GERB76F** | Features of Post-War German Literature<br>*Prerequisite:* GERB19 and B20 |
| **GERC20Y** | Literature of "Sturm und Drang" and Romanticism<br>*Prerequisite:* GERB19 and B20 |

Courses are offered in introductory Classical Greek, (GRKA01 and GRKA10), Greek literature of the classical period (GRKB01, GRKB30, etc.), and modern Greek (B10Y, B22Y).

| | |
|---|---|
| GRKA01Y | Introductory Greek |
| GRKA10F | Introduction to Greek Authors |
| GRKB01S | Plato: Apology |
| GRKB10Y | Intermediate Modern Greek |
| GRKB22Y | Images of Modern Greece: 1936 to the Present |
| GRKB30F-B34F | |
| GRKB35S-B39S | |
| GRKB40Y | Supervised Reading |

For further information see under Classical Studies.

### Greek and Roman History

The following courses are offered this year:

| | |
|---|---|
| GRHB01Y | Greek History from the Bronze Age to the Death of Alexander |
| GRHB03Y | Roman History from the Gracchi to Nero |
| GRHB24S | Ancient Historiography |
| GRHB29Y | Studies in Roman History: Roman Britain |

For further information see under Classical Studies.

## History

*Discipline Representative:* I.R. Robertson

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

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HISA01Y 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 (HISB02-09) 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, American, Canadian, Russian, and Ancient Greek and Roman.

### Specialist Programme in History

*Supervisor:* A.N. Sheps

Students must complete twelve full-course equivalents as follows:

**A** Ten must be in History (HIS or GRH), including HISA01Y and five upper-level courses (HISB11Y-HISC99Y, GRHB24F/S-GRHB28Y, HIS300 and 400 level courses on the St. George campus). Of these at least two must deal with the period prior to 1815 (see list). Students are also required to take courses in at least three different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in each of two areas.

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

Pre-1815 courses

*LIST A*

Full-year courses exclusively within a period before 1815

| | |
|---|---|
| GRHB01Y | Greek History from the Bronze Age to the Death of Alexander |
| GRHB02Y | Greek and Roman History from the Death of Alexander to the Gracchi |
| GRHB03Y | Roman History from the Gracchi to Nero |
| GRHB25Y* | Studies in Greek History I |
| GRHB26Y* | Studies in Greek History II |
| GRHB27Y | Studies in Roman History: Pompeii |
| GRHB28Y | Studies in Roman History |
| GRHB29Y* | Studies in Roman History: Roman Britain |
| HISB06Y | Europe in the Middle Ages |
| HISB13Y* | Europe in the Reformation Era; 1500-1650 |
| HISB18Y* | Europe under the Enlightened Despots |
| HISB23Y* | Tudor and Stuart England |
| HISB61Y* | The Beginnings of France: Constantine to Charlemagne |
| (HISC11Y*) | Western Europe in the Seventeenth Century |
| HISC12Y* | The Renaissance in Europe |
| HISC14Y* | The European Mentality in the Early Modern Period |
| HISC32Y* | The American Colonies and the British Empire |
| HISC62Y* | The Crusades |

*LIST B*

Half-year courses exclusively within a period before 1815

| | |
|---|---|
| GRHB24F/S | Ancient Historiography |
| HISB14F/S* | Popular Culture in Early Modern Europe |
| HISC34F/S* | Revolutionary America 1760-1790 |
| HISC41F/S* | Old Huronia |

*LIST C*

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

| | |
|---|---|
| HISA01Y | The European World |
| HISB07Y | Russia from the Thirteenth Century to the Present |
| HISB46Y* | Atlantic Canada |

* Students should check these courses for prerequisites.

**Major Programme in History**
*Supervisor:* A.N. Sheps
Students must complete seven full-course equivalents in History (HIS or GRH), including HISA01Y and three upper-level courses (HISB11Y-HISC99Y, GRHB24F/S-GRHB28Y, HIS300 and 400 level courses on the St. George campus). Of these at least one must deal with the period prior to 1815 (see list). Students are also required to take courses in at least two different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in one of these two areas.
Pre-1815 courses
*LIST A*
Full-year courses exclusively within a period before 1815

| | |
|---|---|
| GRHB01Y | History of Greece from 2000 B.C. |
| GRHB02Y | Greek and Roman History from the Death of Alexander |
| GRHB03Y | Roman History from the Gracchi to Nero |
| GRHB25Y* | Studies in Greek History I |
| GRHB26Y* | Studies in Greek History II |
| GRHB27Y | Studies in Roman History: Pompeii |
| GRHB28Y | Studies in Roman History |
| GRHB29Y* | Studies in Roman History: Roman Britain |
| HISB06Y | Europe in the Middle Ages |
| HISB13Y* | Europe in the Reformation Era, 1500-1650 |
| HISB18Y* | Europe under the Enlightened Despots |
| HISB23Y* | Tudor and Stuart England |
| HISB61Y* | The Beginnings of France: Constantine to Charlemagne |
| (HISC11Y*) | Western Europe in the Seventeenth Century |
| HISC12Y* | The Renaissance in Europe |
| HISC14Y* | The European Mentality in the Early Modern Period |
| HISC32Y* | The American Colonies and the British Empire |
| HISC62Y* | The Crusades |

*LIST B*
Half-year courses exclusively within a period before 1815

| | |
|---|---|
| GRHB24F/S | Ancient Historiography |
| HISB14F/S | Popular Culture in Early Modern Europe |
| HISC34F/S* | Revolutionary America 1760-1790 |
| HISC41F/S* | Old Huronia |

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

| | |
|---|---|
| HISA01Y | The European World |
| HISB07Y | Russia from the Thirteenth Century to the Present |
| HISB46Y* | Atlantic Canada |

* Students should check these courses for prerequisites.

**HISA01Y The European World: An Introduction to History**
A survey of European history from the Middle Ages to the present.
This course examines the most prominent changes in social and economic organization, in thought and in politics, as Europe developed from a feudal and agrarian to a modern and industrial order. The teaching method is based on lectures and tutorials. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential.
Session: Winter Day, Winter Evening
*J. Pearl, E.W. Dowler*

**HISB02Y Britain from the Eighteenth Century to the Present**
An examination of the political, social, economic and religious forces which transformed an aristocratic society into an industrial power, and of the reasons for the decline of British power in the twentieth century.
The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy, of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlightenment into one committed to that of evangelical humanitarianism. It will also consider why, in the twentieth century, the British have abandoned their imperial role and have concentrated on the establishment of a welfare state. Two lectures and one tutorial per week.
Exclusion: (HISB0I)
Session: Winter Day
*J.P.B. Kenyon*

**HISB03Y History of the United States**
Major themes from the Revolution to the present.
The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism and the United States as a world power. There will be two lectures and one tutorial per week.
Session: Winter Day
*A.N. Sheps, W.M. Dick*

**HISB04Y Introduction to Canadian History**
An introduction to the history of Canada from the first European contacts to the present.
Topics studied include: exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social, and cultural history of the new nation-state established in 1867. There will be two hours of lectures and one tutorial hour per week. Regular attendance at and participation in tutorials are required.
Exclusion: (HISB09)
Session: Winter Day, Summer Evening
*J.S. Moir, I.R. Robertson*

**HISB07Y Russia from the Thirteenth Century to the Present**
The Russian people, state and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present.
Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history. The course will be taught by lectures and tutorials.
Session: Winter Day
*E.W. Dowler*

**HISB13Y Europe in the Reformation Era 1500-1650**
An examination of major themes in sixteenth century Europe, especially social and cultural developments.
There will be strong emphasis on the religious issues and institutions which were so important in that period, and on the interaction of these with the society and culture. This is a lecture/tutorial course, with two hours of lecture and one of tutorial each week.
Prerequisite: HISA01
Session: Summer Evening
*J. L. Pearl, L.J. Abray*

**HISB14S Popular Culture in Early Modern Europe**
An investigation of mentalities and society in Europe from the fifteenth to the eighteenth century.
This course will explore many areas of popular society, examining how people lived, and especially what they believed in. We will look at popular religion, folklore and witchcraft, in order to observe the interaction of the world views of different social strata.
There will be two hours of lecture and one tutorial per week.
Exclusion: HISC14
Prerequisite: HISA01
Session: Winter Day
*J.L. Pearl*

**HISB15Y European Social History 1789-1918**
A course in international history tracing the development of the mass society from the upheaval of the French Revolution to the end of World War I.
Pre-industrial "crowds" and popular responses to industrialization will be studied together with the institutions into which mass action was gradually channelled. Classes will consist of one two-hour lecture and one tutorial per week.
Prerequisite: HISA01
Session: Winter Day
*W.M. Dick*

**HISB16Y Modern France 1750 to the Present**
An exploration of the transition from agricultural monarchy to industrial republic.
Topics will include the revolutionary tradition, the persistence of social conflict, the French sense of world mission, cultural history, the present stalemate between Left and Right, parallels and contrasts to the Canadian experiences of nationalism, regionalism, and modernization.
The course consists of lectures and tutorials.
Prerequisite: HISA01 or permission of instructor.
Session: Winter Evening
*L. J. Abray*

**HISB18Y Europe Under the Enlightened Despots, 1700-1789**
An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century.
Emphasis will be placed on the incongruity 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 consists of lectures and tutorials.*
Exclusion: (HISB28)
Prerequisite: HISA01
Session: Winter Day
*E.W. Dowler*

**HISB21F Frontier Communities in the British Empire-Commonwealth: The South African Model**
A comparative study of the influences of frontiers on the development of new nations, with main emphasis on the history of South Africa.

Such major issues as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power are considered.

Two lectures a week.
Prerequisite: HISB02 (HISB01)
Session: Winter Evening
*J.P.B. Kenyon*

**HISB22S British Imperialism in India**
The impact of imperialism on India.

*Topics will include the motive behind British* imperialism; the problems of administration; the transfer of power; neo-colonialism. Two lectures a week.
Prerequisite: HISB02 (HISB01)
Session: Winter Evening
*J.P.B. Kenyon*

**HISB23Y Tudor and Stuart England**
England from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688.

The course gives an overview of political, economic, social and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers; Parliament and the rule of law; the great religious crisis and its spillover into civil war; the cultural heritage. There will be two lecture hours and one tutorial per week.
Prerequisite: Any B-level course
Session: Winter Day
*L.J. Abray*

**HISB31Y The Southern United States and Slavery**
The social, political and economic structures of the old South from the colonial period to the Confederacy.

Topics will include the development of south*ern 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 two-hour lecture and one tutorial per week in both of which there will be opportunity for class discussion led by the instructor.
Prerequisite: HISB03
Session: Winter Day
*A.N. Sheps*

**HISB36F America and Social Reform 1890-1940**
A thematic study of how Americans tried to use government to solve the problems of modern industrialism.

This course assumes a basic knowledge of American politics in the period covered and will attempt to assess the American experience in a number of areas, e.g. making business socially responsible, regulating industry, coping with poverty, settling the place of organized labour, dealing with race relations. Some students may *wish to complete the year in the more specialized* course, HISC35S.

There will be one double lecture and one tutorial per week.
Exclusion: HISB35
Prerequisite: HISB03
Session: Winter Day
*W.M. Dick*

**HISB42Y French Canada: Origins to the Present**
A thematic study with particular emphasis on Quebec in the nineteenth and twentieth centuries.

The course examines what unites and divides French Canadians, the impact of English dominance, nationalism, industrialization, urbanization, demographic problems, the role of the Catholic church, and relations between Francophones and Anglophones in Canada. Although Quebec receives pride of place we shall also look at communities in the Maritimes, Ontario, the West, New England, and the American South.

*There will be two lectures and one tutorial per* week.
Prerequisite: HISB04 (HISB09)
Session: Winter Day
*L.J. Abray*

**HISB43Y The Evolution of Ontario, 1850-1950**
An examination of the growth of Ontario from a rural, agricultural society to an urbanized, industrial province, and of the contribution of demographic, political, economic and social forces to that growth.

Topics will *include changes in transportation* and communication, the establishment of industries and trade unions, the development of commercial, educational and public service institutions, the impact of immigration, provincial political parties and movements, and *Ontario's place in the Canadian Confederation.*

There will be two lectures and one tutorial per week.
Prerequisite: HISB04 (HISB09)
Session: Winter Day
*J.S. Moir*

**HISB46Y Atlantic Canada**
An examination of the Maritime provinces and Newfoundland from the first European contacts to Confederation in each province.

Subjects to be investigated include: *native* peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economies *and social structures; literary* and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fishermen's movements in Newfoundland; the coming of Confederation. There will be one two-*hour lecture per week,* and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include two research papers.
Prerequisite: HISB04 (HISB09)
Session: Winter Day
*I.R. Robertson*

**HISB61Y The Beginnings of France: Constantine to Charlemagne**
A brief survey of the later Roman Empire in the west, followed by a study of the period from Constantine to Charlemagne.

Major topics include: background (Roman Empire and Christian Church); the Age of Constantine; life and letters in late Roman Gaul (300-500 A.D.); the kingdom of the Franks (500-600 A.D.); the world of *Charlemagne. Special* emphasis will be placed on social, economic and religious aspects of the period. Students will be expected to acquire a general familiarity with the *literature* on the subject, to choose one topic area each term and present a paper on it, and to develop a personal view of the subject. Two hours of lecture and one of tutorial per week.
Prerequisite: Any B-level course in History or Greek and Roman History
Session: Winter Day
*J.H. Corbett*

**HISC01F**
**HISC02S**
**HISC03Y Independent Studies**
A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field *which is of common interest to both student* and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students meet regularly with the supervisor to discuss progress *in their investigations* and complete a 7,500-10,000 word paper for a term course and a 15,000-20,000 word paper for a year course.
Prerequisite: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC01 and HISC03 and by 1 December for HISC02. See History Supervisor for detailed application procedures.
Session: Winter Day
*The History Faculty*

**HISC20H Anglo-Saxon England**
An examination, chronological and topical, of aspects of life in Anglo-Saxon England.

Topics will include law and kinship, political organization, the economic system, the conver*sion to Christianity, religious organization,* the Viking invasions, the Danish imperium, the golden age of Edward the Confessor, and the effects of the Norman Conquest. Seminar.
Prerequisite: One B-level course in History or English.
Session: Winter Evening
*J.S. Moir*

**HISC21Y Urbanization and Social Change in Nineteenth Century England**
A study of the new social environment created by the growth of cities in an industrial community.

Seminar. In the first term students will discuss major issues based on a reading of Briggs' *Victorian Cities*; they will also write a book report. In

the second term students will present a report on their research. Limited enrolment: 20.
Prerequisite: HISB02 (HISB01)
Session: Winter Day
*J.P.B. Kenyon*

**HISC32Y** **The American Colonies and the British Empire**
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.
Prerequisite: Any*one* of HISB02 (HISB01), HISB03, HISB04 (HISB09) or HISB18
Session: Winter Day
*A.N. Sheps*

**HISC35S** **U.S. Labour and Society 1890-1920**
A seminar examining the emergence of organized labour as a force in American Industrial Society.
The main focus will be the opposing roles adopted by different sections of the labour movement: that of transforming American society, or that of finding a place within it.
Students will give a brief presentation to the seminar and will write one essay.
Prerequisite: HISB35 or HISB36
Session: Winter Day
*W.M. Dick*

**HISC41F** **Old Huronia**
Political, social, religious and economic life of the Huron Indians and the interaction of Huron and European cultures.
The course will be taught by weekly seminar. Limited enrolment: 15.
Prerequisite: HISB04 (HISB09)
Corequisite: Field trip to be arranged
Session: Winter Evening
*J.S. Moir*

**Courses Not Offered in 1981-82**

**HISB06Y** **Europe in the Middle Ages**
*Exclusion:* (HISB08)

**HISB17Y** **Germany in the Nineteenth and Twentieth Centuries**
*Prerequisite:* HISA01

**HISB33Y** **American Society and Thought Before the Civil War**
*Exclusion:* (HISC33)
*Prerequisite:* HISB03

**HISB35Y** **The United States since 1870; The Response to Industrialism**
*Prerequisite:* HISB03

**HISB44F** **Canadian Religious Traditions**
*Prerequisite:* HISB04 (HISB09)

**HISB47Y** **The Canadian Left, 1867 to the Present**
*Exclusion:* (HISB47)
*Prerequisite:* HISB04 (HISB09)

**HISC12Y** **The Renaissance in Europe**
*Prerequisite:* HISA01 or permission of the instructor.

**HISC14Y** **The European Mentality in Early Modern Period (1500-1700)**
*Exclusion:* (HISC12); (HISC13)
*Prerequisite:* One B-level History course

**HISC17Y** **European Society and Culture in the Twentieth Century**
*Prerequisite:* HISA01 and one B-level course in History

**HISC19S** **Weimar Culture**
*Prerequisite* HISA01: and one B-level course in History

**HISC22Y** **Religion and English Society, 1750-1900**
*Prerequisite:* HISB01

**HISC34F/S** **Revolutionary America, 1760-1790**
*Prerequisite:* HISB01 or HISB03 or HISB04

**HISC42S** **Church-State Relations in Canada**
*Exclusion:* (HISB42)
*Prerequisite:* HISB04 (HISB09)

**HISC43S** **Selected Topics in Canadian Religious History**
*Prerequisite:* HISB44

**HISC45Y** **History of Canadian Social, Political and Historical Thought**
*Exclusion:* HISB45
*Prerequisite:* HISB04 (HISB09)

**HISC62Y** **The Crusades**
*Prerequisite:* HISB06 (HISB08)

**HISC78Y** **The Russian Intelligentsia**
*Exclusion:* (HISC18)
*Prerequisite:* HISB07 or RUSA01

# The History of Ideas

What has man made of man? The History of Ideas studies the impact of major ideas on the development of western civilization.

The Programme described below will enable you to develop a solid grounding in the intellectual and social history of mankind, and will help you to sharpen your skills in practical critical thinking. You will focus your studies in areas of your own interest. In the Specialist Programme a seminar in your last year of study will help you to concentrate your studies around a central problem of your choice, drawing together issues and ideas you have studied in your previous years.

**Specialist Programme in History of Ideas**
*Supervisor:* W.C. Graham
Students must complete at least twelve and one-half full-course equivalents as follows:

1 HUMA01Y — Prologue
2 ANTA01Y — Introduction to Anthropology
or
SOCA01Y — Introduction to Sociology
3 ASTA03Y — Introduction to Astronomy (for non-scientists)
or
MATA40F & 45S — Linear Algebra
or
NSCA01Y — Introduction to Natural Science: The Physical Sciences (for non-scientists)
or
NSCA02Y — Introduction to Natural Science: The Biological Sciences (for non-scientists)
or
PHLA01Y — Introduction to Philosophy
With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.
4 HISA01Y — European World
5 One full-course equivalent from:
PHLB03F/S — Philosophy and Art
PHLB14F/S* — Philosophy of the Social Sciences
PHLB16F/S — Philosophy of History
PHLB20F/S — Belief, Knowledge and Truth
PHLB70F/S* — Philosophy of Science
PHLB81F/S* — Theories of Mind
6 One full-course equivalent in the development of philosophical ideas: PHLB40S to PHLB49S.
7 One full-course equivalent in political thought from:
PHLB10F/S — Society, the State and Citizen
PHLB12F/S* — Marx and Marxism
PHLB17F/S — Anarchism
POLB70Y — Political Thought from Plato to Locke
POLB71Y — Political Thought of Eighteenth and Nineteenth Centuries
POLC70Y — Twentieth Century Political Thought
8 Five full-course equivalents at least one of which must be at the C-level from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half-course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure, "The History of Ideas". Alternatively, students may elect to complete the Independent Study Year, HUMC95-99Y.
9 HUMC10H — Humanities Seminar

*Students should check these courses for prerequisites.

**College Programme in History of Ideas**
*Supervisor:* W.C. Graham
Students must complete at least ten full-course equivalents as follows:

1 HUMA01Y — Prologue
2 ANTA01Y — Introduction to Anthropology
or
SOCA01Y — Introduction to Sociology
3 ASTA03Y — Introduction to Astronomy (for non-scientists)
or
MATA40F & 45S — Linear Algebra
or
NSCA01Y — Introduction to Natural Science: The Physical Sciences (for non-scientists)
or
NSCA02Y — Introduction to Natural Science: The Biological Sciences (for non-scientists)
or
PHLA01Y — Introduction to Philosophy
With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.

4 HISA01Y European World
5 One-half full-course equivalent from:
PHLB03F/S Philosophy and Art
PHLB14F/S* Philosophy of the Social Sciences
PHLB16F/S Philosophy of History
PHLB20F/S Belief, Knowledge and Truth
PHLB70F/S* Philosophy of Science
PHLB81F/S* Theories of Mind
6 One full-course equivalent in the development of philosophical ideas: PHLB40S to PHLB49S.
7 One full-course equivalent in political thought from:
PHLB10F/S Society, the State and Citizen
PHLB12F/S* Marx and Marxism
PHLB17F/S Anarchism
POLB70Y Political Thought from Plato to Locke
POLB71Y Political Thought of Eighteenth and Nineteenth Centuries
POLC70Y Twentieth Century Political Thought
8 Three full-course equivalents from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure, "The History of Ideas".

*Students should check these courses for prerequisites.

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

The majority of courses in the Humanities are offered by the various disciplines comprising the Humanities Division and are listed alphabetically under the discipline heading in this calendar, along with the Specialist and/or Major Programme centered on a particular discipline. The Humanities Division, however, also offers a Specialist Programme in the Humanities and a College Programme in the Humanities which involve students in a wide range of Humanities disciplines: these programmes are outlined below. Following these programmes is a list of courses which will appeal to students who wish to explore the Humanities outside the traditional disciplinary framework. For the most part, these courses offer an alternative to examination within current precise national, historical, and disciplinary boundaries, opting instead to restructure 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.

Humanities courses fall into the following broad categories, for all of which HUMA01Y serves as a useful, though not always a required, prologue:

*Civilization and Culture*
HUMA01Y Prologue
HUMB13Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities
HUMB14Y Topics in Latin American Culture and Literature
HUMB15Y The Civilization of Spain
HUMB17Y The European Experience: Man and Society in the Twentieth Century French and Italian Novel
HUMB18S Modern Italy
HUMB19F Beyond Consciousness
HUMB22F The Age of Pericles
HUMB23S The Age of Augustus
HUMB24S The Age of Nero
HUMB25F The Age of Homer
HUMC11Y The Darwinian Revolution
see also:
CLAA01Y Classical Civilization
RUSA01Y Russian Culture

*Myth, Religion and Reality*
HUMA10Y Introduction to the Study of Religion
HUMA11Y Greek and Roman Mythology
HUMB20Y Primitive Christian Literature and Myth
HUMB21S The Literature of the Spanish Mystics
HUMB26Y Women in the Major Western Religions
HUMB27S Science Fiction
HUMB28Y Major Religious Traditions, East and West
HUMB29S Religion and Western Culture
HUMB33Y World Visions from the Late Middle Ages to the Renaissance
HUMB34F/S Hercules: Man of Action
HUMB35F "The Ulysses Factor"
HUMB36Y Orpheus: The Quest for Beauty
HUMB37F/S Atlantis
HUMB38F/S Utopia: From More to Huxley
HUMB39F/S Fantasy in Narnia and Middle Earth
HUMC25Y The University
See also:
ANTB23Y Comparative Mythology

*Interliterary Studies*
HUMB40Y Russian and English Nineteenth-Century Fiction
HUMB43F/S The Emergence of Modern Prose
HUMB44F/S Disaster and Literary Imagination
HUMB45S The Spanish Civil War: Fact to Fiction
HUMC01S Lyric Poetry of the Middle Ages
HUMC14Y Romance Philology
HUMC19F Contemporary Fiction and its Backgrounds
JHEC13Y Advanced Seminar in Literary Theory and Criticism

*Literature in Translation*
CLAB01Y Greek and Roman Epic
CLAB02Y Greek and Roman Tragedy
HUMB50S Machiavelli and Aspects of the Italian Renaissance
HUMB54F The Crisis of Contemporary Society in Modern Italian Drama
HUMB55Y The Twentieth Century Latin American Novel and The European Tradition
JHGB50Y The Development of German Drama
JHGB51Y Masterpieces of the German Novel from the Eighteenth Century to the Present
JHGB52F/S The Holocaust in German Literature
JSDB24F Golden Age Drama
RUSB11Y The Nineteenth Century Russian Novel, 1830-1880
RUSB21Y Twentieth Century Russian Fiction, 1900-1940
RUSB23Y Soviet Russian Underground Literature from the 1920's to the Present

*Women's Studies*
JHSA01Y Introduction to Women's Studies
HUMB61S Women in Ancient Greece
HUMB64Y Literary Considerations and Feminism

*Film Studies*
HUMB70Y Introduction to Cinema
JHIB71F Italian Cinema

**Specialist Programme in the Humanities**
*Supervisor:* P.W. Gooch
The Humanities Specialist Programme is designed for the student who, while pursuing a four-year degree, wishes to concentrate his or her studies in the Humanities. After an introduction to a wide range of disciplines within the Division, the student has the option (see item 7) of doing more specialized work in a specific discipline or of taking advantage of our wide interdisciplinary offerings (listed under HUM) to develop a less traditional area of specialization.

Twelve and one-half (12 1/2) full-course equivalents are required, as follows:
1 HUMA01Y
2 PHLA01Y
3 HISA01Y
4 Two consecutive courses (two full-course equivalents) in a language foreign to the student
5 One full-course equivalent in the arts: DRA, FAR, MUS
6 One full-course equivalent in literature or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA.

NOTE: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfil one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST may replace one of requirements 2, 3, 5 or 6.

7 Five further full-course equivalents in Humanities subjects, at least one of which must be at the C-level. (For the purpose of the Programme, Mathematics is also considered to be a Humanities subject.) These five courses should focus on one area or theme and should involve some depth of coverage. Students may elect to fulfil this requirement through the Individual Study Year (HUMC95-99Y). Choice of courses must be approved by the Supervisor.
8 HUMC10H

**College Programme in the Humanities**
*Supervisor:* P.W. Gooch
The Humanities College 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 in several areas of human endeavour. It will accomplish this by developing a coherent group of courses, within the framework established below, for each student registered in the Programme.

Nine (9) full-course equivalents are required, as follows:
1 HUMA01Y
2 PHLA01Y
3 HISA01Y
4 One full-course equivalent in the arts: DRA, FAR, MUS
5 One full-course equivalent in language, literature, or linguistics: CLA, DRA, ENG, FRE, GER, HUM, ITA, LIN, RUS, SPA.

NOTE: A course taken to satisfy one area requirement may not be used to satisfy another area requirement. Students intending to take a DRA or HUM course to fulfil one of the area requirements should consult with the Supervisor about the appropriateness of a particular course. A course in MAT or AST can replace one of the requirements 2, 3, 4 or 5 above.
6 One full-course equivalent emphasizing major ideas in the sciences or social sciences: ANTA01Y, ANT323Y, ASTA03Y, NSCA01Y, NSCA02Y, POLB70Y, POLB71Y, SOCB03Y. Other courses offered by the Division of Science and the Division of Social Sciences may be chosen to fulfil this requirement upon approval by the Supervisor.
7 Three further full-course equivalents in Humanities subjects, focusing on one area or theme. (Note: For the purposes of this Programme, Mathematics is also considered to be a Humanities subject.) Choice of courses must be approved by the Supervisor.

**HUMA01Y Prologue***
Twenty books of central importance in Western civilization.

A comprehensive examination will be given at the completion of each subset of ten books. There is a one-hour tutorial for each book. The examination will stress the student's ability to relate the books in his own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest leaders will present aspects of each work through lectures or other media. Fall Term: *The Bible* (selections); Homer, *The Odyssey*; Sophocles, *Oedipus Rex;* Plato, *Symposium;* Herodotus, *Histories;* Virgil, *Aeneid;* Augustine, *The City of God;* Dante, *Inferno; Chanson de Roland;* Boccaccio, *Decameron*. Spring Term: Machiavelli, *The Prince;* Cervantes, *Don Quixote;* Montaigne, *Essays;* Vasari, *Lives of the Artists;* Galileo, *Discoveries and Opinions;* 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*, 11, i.
Session: Winter Day
*Coordinators: I.R. McDonald, C. Ponomareff*

**JHSA01Y** ***Introduction to Women's Studies***
Women and their roles and relationships in various societies. Taught by members of the disciplines of Anthropology, Classics, English, French, History, Linguisitics and Sociology. The course provides an overview of the problems investigated by specialists in women's studies and teaches how to use the methodologies of a range of disciplines to explore these problems..

Areas for discussion include women and mythology, women and power, women's roles in the family, and women and literature. Among the particular topics are: the origins of misogyny; sexual stereotyping; poetry and propaganda; and the family - myth and reality. A detailed bibliography will be distributed at the first session.

Teaching method: lecture and discussion with occasional seminars.
Session: Winter Day
*Coordinators: S. Namjoshi, L.J. Abray*

**HUMA11Y Greek and Roman Mythology**
The emergence and treatment of myths and legends in the Greco-Roman world.

The course will examine the more important myths and legends and their representation in classical literature, drama and art, and will partly be concerned with ancient and modern theories of myth. This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in Classics.
Session: Winter Day, Summer Evening
*J. Warden*

**HUMB13Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities**
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.
Exclusion: (HUMB30)
Session: Winter Day
*C.V. Ponomareff, W. Dowler, W. Graham*

**HUMB14Y Topics in Latin American Culture and Literature**
A study of the political, social, cultural and literary evolution of Latin America through selected topics such as: Pre-Columbian America, myths and religious practices; the Spanish conquest, construction or destruction?; the Mexican and Cuban revolutions, a study in contrasts; contemporary Latin American fiction, themes and concerns; and, the present day political scene.

No knowledge of the Spanish language is required. However, students majoring in Spanish, please see programme requirements. There will be a two-hour lecture/discussion session per week. Tutorials will be arranged after the first meeting.
Exclusion: (SPAB38)
Session: Winter Evening
*P. León*

**HUMB17Y The European Experience: Man and Society in the Twentieth-Century French and Italian Novel**
The modern evolution of two European societies as documented in their narrative fiction.

In this interdisciplinary analysis of the cultural fabric of France and Italy, non-literary material will be used to complement selected readings that illustrate social, political and economic developments, Europe-wide philosophical reactions, and consequent innovations in narrative form. Works will be read in translation, although students with reading knowledge of French and/or Italian will be encouraged to read in the original. Texts include Svevo, *The Confessions of Zeno*, Céline, *Journey to the End of Night*, Camus, *The Fall*, Lampedusa, *The Leopard*, Moravia, *The Two of Us*, Lefebvre, *Everyday Life in the Modern World*, and other works.

Classes, meeting twice weekly, will mix lectures and seminar discussion.
Exclusion: (HUMB03)
Session: Winter Day
*S. Mittler*

**HUMB19F Beyond Consciousness**
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 1981-82, suggestion and the unconscious will be studied insofar as they relate to the educational process and emphasis will be placed on yoga, music therapy, East-European and Western work in memory training and communication theory.
Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking HUMB19 might wish to consult the following: Brown, *New Mind, New Body* (Harper and Row, 1974); Eliade, *Yoga: Immortality and Freedom* (Princeton, 1958); Ostrander and Schroeder, *Psychic Discoveries Behind the Iron Curtain* (Prentice-Hall, 1970) and *Superlearning* (Delta, 1979); *Problems of Suggestology* (Sofia, 1973).
Prerequisite: At least one full-course equivalent in either Psychology or Philosophy or English or another literature.
Session: Winter Day
*W.J.Bancroft*

**HUMB21S The Literature of the Spanish Mystics**
A study of major works of representative mystics of the Spanish Golden Age.
After a short study of Spanish mysticism in general, the works of individual authors will be analyzed.
Two hours per week in lecture/tutorial format.
No knowledge of the Spanish language is required. However, students majoring in Spanish, please see programme requirements.
Exclusion: (SPAB37)
Session: Winter Day
*J.I. Chicoy-Dabán*

**HUMB23S The Age of Augustus**
Rome in transition from Republic to Principate, with reading of the *Aeneid* 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 Augustan 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 "Prima Porta" statue on the one hand, and the poetry of Virgil, Horace, and Propertius on the other. Slides will be shown and studied frequently, and discussion encouraged.
Session: Winter Day
*I.R. McDonald*

**HUMB25F The Age of Homer**
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.1500-1000 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.).
There will be two lectures a week, illustrated by slides where appropriate. Readings will be the *Iliad* and the *Odyssey* in translation; other reading as assigned.
Session: Winter Day
*I.R. McDonald and staff*

**HUMB26Y Women in the Major Western Religions**
A comparative study of the social and legal status of women in Christianity, Judaism and Islam.
The scriptures of each religion and the interpretation given to them in each tradition will provide (in the first term) background for examination (in the second term) of social issues up to the present.
Readings will be assigned weekly.
Session: Winter Day
*J. McAuliffe*

**HUMB27S Science Fiction**
Reading and discussion of representative works in the genre of science fiction.
Science fiction is where Science and the Humanities most interact. Its authors have been interested, no less than scientists and philosophers, in the central concepts and issues of western thought, as will be seen in reading the works of such authors as Mary Shelley, Jules Verne, H.G. Wells, Olaf Stapledon, C.S. Lewis, John Wyndham, and Aldous Huxley. The precise reading list will depend in part on the availability of titles, most of which are out of print at any given time. A number of films related to the readings may be shown if available.
The teaching method will involve lectures and discussion.
Session: Winter Day
*R.I. Binnick*

**HUMB28Y Major Religious Traditions, East and West**
An introductory study of the ideas, attitudes, practices and contemporary situation of the Judaic, 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.
Session: Winter Evening

**HUMB36Y Orpheus: The Quest for Beauty**
An interdisciplinary seminar, studying the myth of Orpheus as a recurrent motif in art, religion, literature, music and film. Materials (to be read in translation) will include: Virgil, *Georgics IV*; Ovid, *Metamorphoses X and XI*; Poliziano, *Festa d'Orfeo, Sir Orfeo*; Henryson, *Orpheus and Eurydice*; Calderon, *El Divino Orpheo*; Monteverdi, *Orfeo*; Gluck, *Orfeo*; Offenbach, *Orpheus in the Underworld*; Rilke, *Sonnets to Orfeus*; Anouilh, *Euridyce*; Cocteau, *Orphee, Black Orfeus*.
Exclusion: (HUMB08)
Session: Winter Day
*J. Warden*

**HUMB39F Fantasy in Narnia and Middle Earth**
Reading and discussion of masterworks in the genre of modern literary fantasy.
This course examines the novels of the "Inklings" (J.R.R. Tolkien, C.S. Lewis, and Charles Williams), three of the most important writers of modern fantasy literature. The precise reading list will depend on the availability of titles, but will include at least some fantasies by such forebearers of Tolkien and company as William Morris, Lord Dunsany, George MacDonald, and H. Rider Haggard. Emphasis will be on the continuing tradition in fantasy literature both as a reflection of the modern world and as an escape from it.
The teaching method will involve lectures and discussion.
Exclusion: (HUMB05)
Session: Winter Day
*R.I. Binnick*

**HUMB45S The Spanish Civil War: Fact to Fiction**
An exploration of the impact of the Spanish Civil War, 1936-39, on the literary imagination within and outside Spain.
This is not a course on the history of the Spanish Civil War but one in which a brief examination of its origins, progress, and aftermath will lead to analysis and discussion of the varying modes of artistic response (narrative, dramatic, lyrical, documentary) to the military, political, and social realities of the conflict. Authors to be considered will probably include: Gironella, Hemingway, Malraux, Orwell, Sender, Spender *et al.* The texts will be read and the course conducted in English in a lecture-tutorial format.
Session: Winter Day
*R. Skyrme*

**JHGB52F The Holocaust in German Literature**
An investigation of the treatment of what the Nazis termed the "Final Solution" in major works of modern German Literature.
This course attempts to illustrate the preoccupation of post-war writers of German Literature with one of the darkest chapters in the history of Germany, a country whose language they had inherited as their means of artistic expression. It will explore the dilemmas as well as the new sense of mission of these writers of German Literature. All works will be read in English translations. Among the works studied will be R. Hochhuth's *The Deputy*, P. Weiss' *The Investigation*, J. Lind's *Soul of Wood*, A. Segher's *The Seventh Cross*, as well as poetry by N. Sachs, and P. Celan.
The class will meet for two hours of a mixture of lectures and discussion sesions per week.
Session: Winter Day
*H. Wittmann*

**HUMB64Y Literary Considerations and Feminism**
A discussion of the implications of a primarily male dominated literary tradition. Examples will be drawn from English, American, Canadian, and European literature.
The purpose of the course is to consider the problem of a literary tradition in which the centre of human consciousness is predominantly male and in which "woman" is usually regarded as the "other". The course is exploratory in nature, and in consequence, student participation is particularly important. Texts will include Kate Millet's *Sexual Politics* and Swift's *Words and Women*.
Session: Winter Day
*S. Namjoshi*

**HUMB70Y Introduction to Cinema**
An introduction to the vocabulary of film criticism, major aesthetic approaches and general history (silent and sound).
Course content and methods of teaching will be discussed at the beginning of the course.
NOTE There is a screening fee of $20.00 for this course.
Session: Winter Day
*M.Q. Schonberg*

**JHIB71F Italian Cinema**
A survey of the development of Italian cinema from World War II to the present.
Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be

shown during the course, which will meet four hours per week. There will be an introduction to the film followed by film viewing and discussion. Specialists in Italian will be expected to do their written work in Italian. *This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian.*
NOTE There is a screening fee of $10.00 for this course.
Exclusion: (HUMB71), (JHIB90)
Session: Winter Evening
*G. Katz*

**HUMB80Y** Creative Writing: An Introduction
An introduction to the writing of poetry and short fiction.

This course will provide students with the experience of writing, discussing and revising their work in a workshop format. It will also provide special work on techniques and form, and consideration of a few major contemporary writers to facilitate technical discussions. Limited enrolment: 16.
Prerequisite: Admission by portfolio. This requirement may be replaced by interview at the discretion of the instructor.
Session: Winter Evening, Summer Evening (see the 1981 Summer Arts Brochure)
*R.M. Brown*

**HUMC10H** Humanities Seminar
A special half-credit seminar course, taken normally after the completion of ten credits. Each member of the seminar gives a report of individual projects undertaken by him.

This seminar is required for those registered in the Specialist Programme in Humanities and in the History of Ideas, and in the College Programme in Myth and Religion: it is taken after completion of ten full-course equivalents. It is available to students registered in the Programmes in Renaissance Studies. Topics for the seminars should be chosen in consultation with the Supervisor. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.
Prerequisite: Any ten courses.
Session: Winter Day
*Co-ordinator: P. Gooch*

**HUMC95-99Y** Individual Study Year
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 an oral examination at the end of the year before an appropriate board of faculty. Those interested in enrolling should contact the Divisional Chairman by the end of May 1981. (For a year of individual study, students must enrol in all five courses. Those who wish to take Individual Studies should consult disciplinary listings.)

*Prerequisite* Permission of the Division of Humanities Committee on Individual Study.
Session: Winter Day
*Staff*

**Courses Not Offered in 1981-82**

**HUMA10Y** Introduction to the Study of Religion
**JHSB04Y** The Bloomsbury Group
*Prerequisite:* Normally three courses selected from Art History, Economics, English, Philosophy or Political Science at least one of which should be in English Literature.
**HUMB15Y** The Civilization of Spain
*Exclusion:* (SPAB08), SPAB09
**HUMB18S** Modern Italy
*Exclusion:* ITAB20
**HUMB20Y** Primitive Christian Literature and Myth
*Prerequisite:* No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.
**HUMB22F** The Age of Pericles
**HUMB24S** The Age of Nero
**HUMB29S** Religion and Western Culture
**HUMB33Y** World Visions from the late Middle Ages to the Renaissance
**HUMB34F/S** Hercules: Man of Action
*Exclusion:* (HUMB06)
**HUMB35F** "The Ulysses Factor"
*Exclusion:* (HUMB07)
**HUMB37F/S** Atlantis
*Exclusion:* (HUMB09)
**HUMB38F/S** Utopia: From More to Huxley
*Exclusion:* (HUMB10)
**HUMB40Y** Russian and English Nineteenth Century Fiction
*Exclusion:* (HUMB31)
**HUMB42S** Dostoevsky and the West
**HUMB43F/S** The Emergence of Modern Prose
*Exclusion:* (HUMB01)

# Italian

**HUMB44F** Disaster and the Literary Imagination
*Exclusion:* (HUMB02)
**HUMB50S** Machiavelli and Aspects of the Italian Renaissance
*Exclusion:* ITAB33
**JHGB50Y** The Development of German Drama
*Exclusion:* (GERB40)
**JHGB51Y** Masterpieces of the German Novel from the Eighteenth Century to the Present
*Exclusion:* (GERB43)
**HUMB54F** The Crisis of Contemporary Society in Modern Italian Drama
*Exclusion:* (ITAB15), (ITAB16), ITAB27
**HUMB55Y** The Twentieth Century Latin American Novel and The European Tradition
**HUMB61S** Women in Ancient Greece
*Exclusion:* (HUMB41)
**HUMC01S** Lyric Poetry of the Middle Ages in the Mediterranean Area
*Prerequisite:* One B-level course in either a Romance Literature or English Literature
**HUMC11Y** The Darwinian Revolution
*Prerequisite:* BIOB05 or BIOB11 or PHLB70 or PHLB71 and permission of the instructor.
**JHEC13Y** Advanced Seminar in Literary Theory and Criticism
*Prerequisite:* Three courses in English, at least one at B-level; or three courses in literature and permission of instructor.
**HUMC14Y** Romance Philology
*Prerequisite:* LINA01; two full-course equivalents, one of which must be at the B-level in one of the following languages: French, Italian, Latin or Spanish. It would also be an asset, but it is not a prerequisite, to have some knowledge of Latin and/or a second Romance language.
**HUMC19F** Contemporary Fiction and its Backgrounds
*Prerequisite:* One B-level course in literature or permission of instructor.
**HUMC25Y** The University
*Prerequisite:* Any two B-level courses

*Discipline Representative:* D. McAuliffe
Scarborough 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 ITAA01 or ITAA11. ITAA01 students may then take ITAB01, 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 ITAA11 may take ITAB11 as a prerequisite for literature and more advanced language courses. In all courses, emphasis is given to the spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as adjuncts to his plan of study or as an enrichment of his total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, and Spanish Literature.

Students enrolled in Italian, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students are not allowed to take any A-level courses in Italian while taking or after completing any B-level course in Italian.

Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

**Major Programme in Italian Language**
*Supervisor:* G. Katz

The Major Programme in Italian Language consists of seven full-course equivalents, as follows:

Option A (for students who have no prior knowledge of Italian or its dialects):

| | | |
|---|---|---|
| *1* | ITAA01Y | Introductory Italian |
| *2* | ITAA02H | Introductory Italian Language Practice |
| *3* | ITAA03S | Conversation II |
| *4* | ITAB01Y | Intermediate Italian I |
| *5* | ITAB03F | Intermediate Conversation I |
| | or | |
| | ITAB04F/S | Advanced Composition |

| | | |
|---|---|---|
| 6 | ITAB06S | Intermediate Conversation II |
| | or | |
| | ITAB05F/S | Practical Translation |
| 7 | ITAC01Y | Language Practice |
| 8 | ITAB20F/S | Modern Italy |
| 9 | ITAB22F | Introduction to Modern and Contemporary Italian Literature |
| 10 | LINA01Y | General Linguistics |

Option B (for students with some prior knowledge of Italian or one of its dialects):

| | | |
|---|---|---|
| 1 | ITAA11Y | Elementary Italian |
| 2 | ITAA03S | Conversation II |
| 3 | ITAB11Y | Intermediate Italian II |
| 4 | ITAB03F | Intermediate Conversation I |
| | or | |
| | ITAB04F/S | Advanced Composition |
| 5 | ITAB06S | Intermediate Conversation II |
| | or | |
| | ITAB05F/S | Practical Translation |
| 6 | ITAC01Y | Language Practice |
| 7 | ITAB20F/S | Modern Italy |
| 8 | ITAB22F | Introduction to Modern and Contemporary Italian Literature |
| 9 | ITAB23F/S | Survey of Italian Literature from the Middle Ages to the Renaissance |
| 10 | LINA01Y | General Linguistics |

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

**Major Programme in Italian Language and Literature**
*Supervisor:* D. McAuliffe
Students are required to complete seven full-course equivalents as follows:

1. Three full-course equivalents in Italian Language
2. Three full-course equivalents, including ITAB22F and ITAB23S (or ITAB21Y), and ITAB31Y, in Italian Literature.
3. One full-course equivalent selected from among the offerings in Italian or from the Humanities Discipline's offerings (e.g. in HUM) which concentrate on Italian culture, civilization and literature.

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

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

**ITAA01Y Introductory Italian**
An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the corequisite course A02H. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings commencing as early as progress 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, hand in written assignments completed outside the classroom, and write monthly tests. There are three hours of class per week. Further information will be available later in Room H332A.
Exclusion: ITAA11
Corequisite: ITAA02. It is strongly recommended that students enrolled in ITAA01 and ITAA02 take ITAA03 concurrently with them in the Spring term.
Session: Winter Day
*D. McAuliffe*

**ITAA02H Introductory Italian Language Practice**
Practical application of the language structures introduced in ITAA01.

As with the corequisite A01Y, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The two hours weekly of classtime are devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practise with one another, and as they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest. Further information will be available later in Room H332A.
Corequisite: ITAA01
Session: Winter Day
*D. McAuliffe*

**ITAA03S Conversation II**
Practical application of the language structures introduced in ITAA01 and ITAA11.

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 chosen are the geography, history, politics, economics and cultural life of contemporary Italy. Students are expected to participate in classroom discussion, make oral presentations, and take an oral examination. There are three hours of class per week.
Corequisite: ITAA01 or ITAA11
Session: Winter Day
*S. Mittler*

**ITAA11Y Elementary Italian**
An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

The course aims at giving a basic knowledge of speaking, reading and writing Italian. The main objective is to free the student from the phonological, lexical and grammatical interference, from both dialects and English, found 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 lectures per week; the use of the language laboratory is highly recommended. Further information will be available later in Room H332A.
Exclusion: ITAA01
Corequisite: It is strongly recommended that students enrolled in this course take ITAA03 concurrently with it.
Session: Winter Day

**ITAB01Y Intermediate Italian I**
A continuation of ITAA01. Intensive review of 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 passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on 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. Further information will be available later in Room H332A.
Exclusion: ITAB11
Prerequisite: ITAA01 or equivalent
Corequisite: It is strongly recommended that students enrolled in this course take ITAB03 and B06 concurrently with it.
Session: Winter Day

**ITAB03F Intermediate Conversation I**
An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idioms and special constructions focusing on Italian culture and civilization.

This course offers the opportunity to improve oral and aural skills in Italian. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics and by preparing the specialized vocabulary of those topics. At least two oral reports on an agreed-upon subject related to Italian culture and civilization will be required of each student. The course will meet three hours per week. Further information will be available later in Room H332A.
Corequisite: ITAB01 or ITAB11
Session: Winter Day

**ITAB06S Intermediate Conversation II**
A continuation of ITAB03.

This course aims to develop as fully as possible the student's facility with the language and continues the program outlined in ITAB03.
Corequisite: ITAB01 or ITAB11
Session: Winter Day
*G. Katz*

**ITAB11Y Intermediate Italian II**
A continuation of ITAA11Y. The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or

summaries of the readings discussed in class. The course will be conducted in Italian. There will be three hours of lectures per week.
Exclusion: ITAB01
Prerequisite: ITAA11; Grade 13; or equivalent
Corequisite: It is strongly recommended that students enrolled in this course take ITAB03 and ITAB06 concurrently with it.
Session: Winter Day
*G. Katz*

**ITAB22F Introduction to Modern and Contemporary Literature**
An introduction to the reading of literary texts designed to aid the student in the comprehension, analysis, and enjoyment of Italian literature.

The major modern theme of the individual in society will be examined in selections from the works of influential novelists, poets and dramatists of the nineteenth and twentieth centuries. Texts include works by Manzoni, Leopardi, Verga, Pirandello, Pavese, D'Annunzio and Calvino.

This course will be conducted in Italian and will be a combination of lectures and discussion.
Exclusion: (ITAB21)
Prerequisite: ITAB01 or ITAB11
Session: Winter Day
*G. Katz*

**ITAB23S *Survey of Italian Literature from the* Middle Ages to the Renaissance**
A selection of main figures and periods of Italian literature to be discussed from the point of view of three basic themes: "woman", "nature" and "society".

The passages to be read will be taken from the "Dolce Stil Novo", Dante's *Divine Comedy*, Petrarch's *Canzoniere*, Boccaccio's *Decameron*, Poliziano's *Stanze*, Machiavelli's *Mandragola*, Ariosto's *Orlando Furioso*, Tasso's *Gerusalemme Liberata*.

This course will meet for three hours per week. Discussion will be conducted in Italian.
Exclusion: (ITAB21)
Prerequisite: ITAB01 or ITAB11
Session: Winter Day
*D. McAuliffe*

**ITAB27S Modern Italian Theatre from Pirandello to the Present Day**
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 del grottesco" and of myth, and to his concern with the problems of identity, responsibility and guilt. Pirandello's work will be related to the works of other Italian dramatists, and in particular to Betti, Fabbri and De Filippo.

There will be three hours of lectures per week.
Exclusion: (ITAB15), (ITAB16), HUMB54
Prerequisite: ITAB01 or ITAB11
Session: Winter Day
*G. Katz*

**ITAB32S Petrarch and Boccaccio**
A study, through the works of two major writers, of the beginnings of the Renaissance and the rise of Humanistic thought and culture.

The class will read and discuss selections from Boccaccio's *Decameron*, and Petrarch's *Canzoniere, Segreto*, and *Trionfi*. The course is intended to provide an insight into two writers representative of their times who have deeply influenced Italian and, indeed, all of Western European literature. Special consideration will be given to the historical and cultural context in which the authors lived and wrote.

Three hours per week will be devoted to lectures, reading of the texts, and discussion.
Prerequisite: ITAB01 or ITAB11; a course in Italian literature, such as ITAB22F and ITAB23S, is recommended but not required
Session: Winter Day
*D. McAuliffe*

**ITAB35F Italian Sixteenth Century Theatre**
A study of the traditional and innovative themes and techniques of the theatre of sixteenth century Italy.

The course looks at the renaissance of the various theatrical genres in early modern Italy. The class will read and discuss selections and, when possible, entire works by playwrights who played an important role in the development of Italian comedy, tragedy and pastoral theatre, such as Machiavelli, Ariosto, Ruzzante and Giraldo Cinzio. Special consideration will be given to the historical and cultural context in which the plays were written and performed as well as to the influence they had on the theatre of England, France and Spain. Depending on availability, editions will be chosen of Machiavelli's *Mandragola*, Ariosto's *Lena*, Ruzzante's *Parlamento*, and other selections.

There are three hours per week of lectures, reading of the texts and discussion. If there is sufficient interest and enrolment it may be possible to arrange the preparation of a play (or scenes) for performance.
Prerequisite: ITAB01 or ITAB11; a course in Italian literature, such as ITAB22F and B23S, is recommended but not required.
Session: Winter Day
*D. McAuliffe*

**ITAB45F The Nineteenth Century Italian Novel in Transition**
A study of important changes on the Italian social and literary scene from about 1870 to 1923.

Topics will include: Verga's use of *verismo* to translate the new realities of a united Italy; Fogazzaro's version of middle class life; D'Annunzio's esthetics and cult of the *superuomo*; Pirandello's analysis of the nation's shortcomings, particulary in the South; and Svevo's enquiry into the distortion of memory. Texts are: G. Verga, *I Malavoglia*, A. Fogazzaro, *Piccolo mondo antico*, G.D'Annunzio, *Il fuoco*, L. Pirandello, *I vecchi e i giovani*, and I. Svevo, *La coscienza di Zeno*.

Teaching method will involve both lectures and seminar discussion.
Prerequisite: ITAB01 or ITAB11
Session: Winter Day
*S. Mittler*

**JHIB71F Italian Cinema**
A survey of the development of Italian cinema from World War II to the present.

Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be shown during the course, which will meet four hours per week. There will be an introduction to the film followed by film viewing and discussion. Specialists in Italian will be expected to do their written work in Italian. *This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian.*
NOTE: There is a screening fee of $10.00 for this course.
Exclusion: (HUMB71), (JHIB90)
Session: Winter Evening
*G. Katz*

**ITAC01Y Language Practice**
An advanced language course focusing on complex problems of Italian grammar, with readings, translations and compositions.

This course is designed to give students an opportunity to improve their knowledge of written and oral Italian on an advanced level. Specific points of grammar, syntax and style will be discussed and exemplified with drills and exercises. Students will be asked to write short compositions. A selection of passages by modern Italian authors will provide the necessary material for stylistic analyses, summaries and paraphrases. There will be three hours of class per week.
Prerequisite: ITAB01 or ITAB11
Session: Winter Day
*G. Katz*

**ITAC50F-54F**
**ITAC55S-59S**
**ITAC60Y Supervised Reading**
These courses are designed to provide advanced students an opportunity to pursue independent study on specific aspects of Italian language and literature of their own choice. The students are expected to do most of the reading by themselves 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 the Discipline Representative.
Prerequisite: One full-course equivalent in Italian literature.
Session: Winter Day
*Staff*

**Courses Not Offered in 1981-82**

**ITAB04F/S** Advanced Composition
*Prerequisite:* ITAB01 or ITAB11

**ITAB05F/S** Practical Translation
*Prerequisite:* ITAB01 or ITAB11

**ITAB12F/S** The Twentieth Century Novel
*Prerequisite:* ITAB01 or ITAB11

**ITAB13F/S** Modern Italian Poetry
*Prerequisite:* ITAB01 or ITAB11

**ITAB20F** Modern Italy
*Exclusion:* HUMB18
*Prerequisite:* ITAB01 or ITAB11

**ITAB31Y** Dante and Medieval Culture
*Prerequisite:* ITAB01 or ITAB11

**ITAB33F/S** Machiavelli and Renaissance Thought
*Exclusion:* HUMB50
*Prerequisite:* ITAB01 or ITAB11

**ITAB34F** The Renaissance Epic
*Prerequisite:* ITAB01 or ITAB11

**ITAB36F/S** Lyric Poetry of the Renaissance (from Poliziano to Michaelangelo)
*Prerequisite:* ITAB01 or ITAB11

## Joint Courses

**ITAB40S** Reformation and Baroque Literature
*Prerequisite:* ITAB01 or ITAB11

**ITAB41F/S** Italian Eighteenth Century Theatre
*Prerequisite:* ITAB01 or ITAB11

**ITAB43F/S** Foscolo and Leopardi
*Prerequisite:* ITAB01 or ITAB11

**ITAB44F/S** Manzoni
*Prerequisite:* ITAB01 or ITAB11

For a description of these courses please refer to the disciplines concerned:

*Biology and Chemistry*
JBCB35Y Introductory Biochemistry
JBCB36H Laboratory in Chemistry

*Commerce and Economics*
JCEB54S Industrial Relations
JCEB72F Analysis for Decision Making I
JCEB73S Analysis for Decision Making II
JCEC02Y Corporation Finance
JCEC40S Public Policy Towards Business

*Commerce and Sociology*
JCSB27Y Organizational Behaviour

*Humanities and English*
JHEC13Y Advanced Seminar in Literary Theory and Criticism
*(not offered 1981-82)*

*Humanities and German*
JHGB50Y The Development of German Drama
*(not offered 1981-82)*
JHGB51Y Masterpieces of the German Novel from the Eighteenth Century to the Present
*(not offered 1981-82)*
JHGB52F The Holocaust in German Literature

*Humanities and Italian*
JHIB71F Italian Cinema

*Humanities and Social Science*
JHSA01Y Introduction to Women's Studies

*Linguistics and Psychology*
JLPB55F Psycholinguistics

*Mathematics and Computer Science*
JMCC31F Combinatorics
*(not offered 1981-82)*
JMCC32F Graph Theory and Algorithms for its Applications
JMCC51S Numerical Methods

*Mathematics and Philosophy*
JMPB50F Symbolic Logic
JMPC51S Symbolic Logic II

*Physics and Astronomy*
JPAC10Y Relativity and Cosmology
*(not offered 1981-82)*

*Physics and Mathematics*
JPMC42S Advanced Classical Mechanics

*Spanish and Drama*
JSDB24F Golden Age Drama

## Language and Literature

**Specialist Programme**
*Supervisor:* R. Barta
Students wishing to follow this Specialist Programme should complete the *Major* in *Language and Literature* in two of the following disciplines:
English,
French,
Classical Studies (Greek or Latin),
German,
Italian,
Russian,
Spanish.
In addition, one full-course equivalent should be chosen from the following, the choice to be approved by the Supervisor:
ENGB95Y English Literary Criticism
FARA10F Ancient Art and Architecture
FARA11S Medieval Art
FARA12F Renaissance and Baroque Art
FARA13S Modern Art 1750 to the Present
HUMA01Y Prologue
HUMA11Y Greek and Roman Mythology
PHLB03F/S Philosophy and Art
PHLB04F/S Philosophy in Literature

## Latin

Courses are offered in introductory Latin (LATA01, LATA10) and Latin literature (LATB01, LATB30, etc.).

| | |
|---|---|
| LATA01Y | Introductory Latin |
| LATA10F | Introduction to Latin Authors |
| LATB01S | Catullus |
| LATB30F-33F | |
| LATB35S-39S | |
| LATB40Y | Supervised Reading |
| LATC01F-02S | Independent Studies |

For further information see under *Classical Studies*.

## Linguistics

*Discipline Representative:* R.I. Binnick

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINA01, LINB11, and LINB04). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LINB07, JLPB55, LINB15 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 LINA04, LINB26 and LINB27.

### Specialist Programme in Linguistics

*Supervisor:* R.I. Binnick

The Specialist Programme in Linguistics may be taken in one of three ways, depending on whether the student wants to focus on general linguistics, psycholinguistics, or sociolinguistics. Each involves a core of four basic full-course equivalents, as follows:

1 LINA01Y General Linguistics
2 LINB11Y Syntax and Semantics
3 Two of:
LINB09F Phonetics
LINB02S Phonology
LINB04S Historical and Comparative Linguistics
4 LINC21Y Structure of a Language
*or*
LINC22Y Comparative Study of a Language Family or Area

In addition to these, students must choose one of the following three areas of concentration:

I *General Linguistics Concentration:*
Students must complete nine additional full-course equivalents, to be constituted as follows:

5 LINB07Y Sociolinguistics
*or* two of:
JLPB55F Psycholinguistics
LINB15S Developmental Psycholinguistics
LINB25F Second Language Learning
LINB27F Animal Communication and the Nature of Language
6 Four further full-course equivalents in Linguistics, not to include LINA04F/S
7 One full-course equivalent from among the following courses:
ANTB30Y Language and Culture
ENGB01Y Old English Language and Literature
FREB25Y* Introduction to French Linguistics
FREB42F* General History of the French Language
FREB43S* The French Language in Canada
FREB48Y* Theoretical and Practical Phonetics
GERB33S* Practicum in the History and Structure of the German Language
PHLB80F/S* Philosophy of Language
SPAB04F* Phonetics
SPAB12S* History of the Spanish Language

* Students should check these courses for prerequisites.

Two full-course equivalents in a language which is not the student's native language. The student must also, in addition to his native language and the language taken under (8), have some knowledge of a third language; this requirement can be satisfied by either: (a) a demonstration that the student's knowledge is equivalent to that acquired in one full course at the university level (to be decided in consultation with the Supervisor), or (b) the student's taking one further course in such a language at the university level.

*Psycholinguistics Concentration:*
Students must complete ten additional full-course equivalents, to be constituted as follows:

Two of:
JLPB55F Psycholinguistics
LINB15S Developmental Psycholinguistics
LINB25F Second Language Learning
LINB27F Animal Communication and the Nature of Language
Two further full-course equivalents in Linguistics, not to include LINA04F/S
PSYA01Y
Four full-course equivalents from among the following:
PSYB07F Data Analysis in Psychology
PSYB09S General Experimental Psychology
PSYB20F Developmental Psychology
PSYB40F* Learning
(PSYB41F*) Operant Conditioning
PSYB50F Sensation and Perception
PSYB51F* Perceiving and Knowing
PSYB52S* Human Information Processing
PSYB57S* Human Learning and Memory
PSYB60F Brain Mechanisms and Behaviour: I
PSYB65F* Biological Foundations of Behaviour

* Students should check these courses for prerequisites or exclusions.

9 Either (a) a total of two further full-course equivalents to be selected from Linguistics and/or Psychology, or (b) two full-course equivalents in a language which is not the student's native language. If (b) is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).
Students are encouraged to complete a course in Calculus or Statistics.

III *Sociolinguistics Concentration:*
The student must complete nine additional full-course equivalents, to be constituted as follows:

5 All of the following:
LINB07Y Sociolinguistics
SOCA01Y Introduction to Sociology
SOCB01Y Methods in Social Research
6 Two of:
SOCB10Y Social Class and Social Stratification
SOCB13Y Canadian Society
SOCB16Y Social Change
7 Two further full-course equivalents in Linguistics, not to include LINA04F/S
8 Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student's native language. If (b) is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

### Major Programme in Linguistics

*Supervisor:* R.I. Binnick

Students must complete seven full-course equivalents, as follows:

1 LINA01Y General Linguistics
2 LINB11Y Syntax and Semantics
3 Two of:
LINB09F Phonetics
LINB02S Phonology
LINB04S Historical and Comparative Linguistics

Students must also complete *either* four other full-course equivalents in LIN or three other full-course equivalents in LIN plus one C-level full-course equivalent in a language. (Only the first *option is permitted when this programme is* taken as part of the Modern Languages Specialist Programme.) JLPB55F can be included as a LIN course. LINA04F/S cannot be counted towards the Major.

**LINA01Y General Linguistics**
An introduction to various methods of linguistic analysis, as well as to the form and content systems which comprise language.

Among the questions considered will be the processes of producing and comprehending speech, first and second language acquisition, and the ideal structures which underly actual utterances.

This is a lecture course with tutorial sections for discussion. The textbook is normally an introductory Linguistics book, such as Fromkin and Rodman, *Introduction to Language*, and will provide most of the readings; there will also be a workbook with problems for homework and class discussion.
Session: Winter Day
*S. Whalen, E. Bialystok*

**LINA04F/S Introduction to Language**
A general introduction to the nature of language. This is a non-technical introduction and cannot serve as a prerequisite for further linguistics courses (unless specified).

The course will examine language communication: under what conditions it takes place, how it modifies and affects the human condition and the realities of social life and is in turn modified and affected by them. Among the topics covered will be: the relationship of written and spoken language; the history of English and related languages; the problem of bilingualism in Canada; animal communication; speech disorders. There will be lectures, discussions, films. The text used will be Haugen/Bloomfield, *Language as a Human Problem*.
Exclusion: LINA01
Session: Winter Day
*D. Ferris, E. Bialystok*

**LINB02S Phonology**
The sounds of language and their analysis: theoretical approaches to the sound patterns of various languages. Synchronic and diachronic views of sound systems.

An introduction to phonological theory and method, especially such areas as segmental phonology, phonological patterns, distinctive features, redundancy, phonological processes, phonological rules, underlying representations, *ordered rules, derived representations*, nonphonological effects, and natural phonology. Tentative choice of texts: Schane, Sanford A, *Generative Phonology*, Toronto: Prentice-Hall, 1973; and Schane, Sanford A. and Birgitte Bendixen, *Workbook in Generative Phonology*, Toronto: Prentice-Hall, 1978. We will discuss material from the text and problems which are to be solved. Three hours a week.
Prerequisite: LINA01
Session: Winter Day
*D. Ferris*

**LINB04S Historical and Comparative Linguistics**
Language change and language relationships: linguistic typology; language universals; language families.

Topics for study include: models of language development (neogrammarian, structuralist, transformational-generative); language contact: dialect geography, social motivation of language change, contact between languages, language prehistory. Tentative choice of text: Bynon, Theodora. *Historical Linguistics*, New York: Cambridge University Press 1977 (plus various articles). Three hours a week.
*Prerequisite: LINA01*
Session: Winter Day
*D. Ferris*

**LINB09F Phonetics**
The physiological and acoustic bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved. Tentative choice of text: Ladefoged, Peter, *A Course in Phonetics*, New York: Harcourt Brace Jovanovich, 1975 (plus various articles).
Prerequisite: LINA01
Session: Winter Day
*D. Ferris*

**LINB11Y Syntax and Semantics**
The study of sentence structure, including the major grammatical processes. Some of the topics to be studied are transformational rules, the principle of the cycle, the relationship between syntax and semantics, *grammatical and lexical* meaning, literal vs. conveyed meaning, presuppositions, the influence of extra-linguistic context on language.

Emphasis will be on the way words are put together to form sentences, with some discussion of the role grammar plays in determining the meaning of those sentences. This is primarily a lecture course with discussion. The textbook is normally an introductory syntax text, such as Akmajian and Heny, *Introduction to Transformational Syntax*.
*Prerequisite: LINA01*
Session: Winter Day
*R.I. Binnick*

**LINB15S Developmental Psycholinguistics**
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 continuation 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.
Prerequisite: One full-course equivalent in LIN, PSY, SOC or ANT.
Session: Winter Day
*E. Bialystok*

**LINB25F Second Language Learning**
The psychological, sociological and linguistic factors which affect the ability of a child or an adult to learn a language after a mother tongue has been acquired.

The course begins with an examination of the theoretical cognitive basis of second language learning and a comparison with child first language acquisition. In the second section, the question of individual differences among learners (in attitude, intelligence, and personality) is discussed with respect to the success or failure of second language mastery. The third topic involves the strategies which learners adopt, either consciously or unconsciously, to learn the language more effectively and to communicate, given their limited knowledge of the language. Finally, all these issues are assimilated in an attempt to produce a coherent description of second language communicative competence.

There will be lectures and discussion based on assigned readings. The text will be H.D. Brown, *Principles of Language Learning and Teaching*.
Prerequisite: One linguistics course or language course involving the study of grammar. One psychology course recommended.
Session: Winter ~~Day~~ Evening
*E. Bialystok*

**LINB26S Languages of the World**
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 interrelation. 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 disussion per week.
Prerequisite: LINA01, LINA04, or one course in Psychology or Anthropology
Session: Winter Evening
*S. Whalen*

**LINB27F Animal Communication and the *Nature of Language***
An examination of how some animals communicate and what this can tell us about how to form a theory of language.

Does language exist in non-human animals? Are non-human animals *capable* of language? Where are the boundaries of language within human communication?

There will be lectures, discussion and films.
Prerequisite: One course in LIN, or PSY, or SOC or ANT.
Session: Winter day
*S. Whalen*

**JLPB55F Psycholinguistics**
Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogenesis will be discussed.

There will be lectures, films and discussion.
Prerequisite: LINA01
Session: Winter Day
*E. Bialystok*

**LINC01F**
**LINC02S**
**LINC03F**
**LINC04S**
**LINC05Y** Supervised Reading
Interested students should contact Professor R.I. Binnick, 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 Linguistic courses which the student has already taken, and in an area which is of the student's own choosing. Methods of research and of evaluation are as varied as the possible areas of research.
Prerequisite: At least one B-level full-course equivalent in Linguistics; permission of instructor.
Session: Winter Day
*Staff*

**LINC21Y** Structure of a Language
Linguistic theory put 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.
Exclusion: (LINB10)
Pre- or Corequisite: LINB02, LINB11
Session: Winter Day
*D. Ferris*

**Courses Not Offered in 1981-82**

**LINB07Y** Sociolinguistics
*Prerequisite:* LINA01 or SOCA01
**LINB08S** Scripts
*Prerequisite:* LINA01 or LINA04
**LINB28F** Language and Sex
*Prerequisite:* One full-course equivalent in LIN, SOC, ANT, ENG, or PSY
**LINC10Y** Studies in Syntax and Semantics
**LINC12F** Dialectology
**LINC22Y** Comparative Study of Language Family or Area

*Staff member responsible for curriculum:* J.B. Wilker
The development of mathematics was induced by the inherent need to describe and analyse elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems which can be deduced from them. While pure mathematics is not necessarily initially motivated by practical considerations, there are numerous instances where the solution of problems in other branches of science has been based upon previously developed pure mathematical theory. The wide applicability of both the techniques of the subject and the method of reasoning employed suggests that most students could profit by taking some courses in mathematics.
Mathematics and Statistics courses are divided into four sections:
*a* MATA22 is a prerequisite for some non-science programmes. Completion of this course does not qualify the student to proceed to further courses in Mathematics, Computer Science or Statistics.
*b* MATA26, A27, B41/B42
STAB52/B57, C42F, C52F, C67S
These courses, primarily for science and social science students, emphasize practice rather than the rigorous development of theory.
*c* JMPB50/C51
A course in logic listed as a joint course in Mathematics and Philosophy.
*d* All other courses in Mathematics emphasize rigour. Many of these courses are required for Programmes in Mathematics or Physics.

**"A" Level Calculus Courses**
MATA55Y Calculus with Analysis
MATA26Y Calculus
MATA27Y Techniques of Calculus
MATA22Y Calculus with Statistics
*Comparison*
MATA55 is a theory course. The emphasis is on why theorems are true, and students are expected to learn how to prove theorems. This course together with MATA40F and MATA45S is essential for students who wish to specialize in Mathematics or Theoretical Physics. A student who completes MATA55 together with MATA40F and MATA45S may take any of the second year Mathematics courses.
MATA26 is a practical course taught at a high level. There is emphasis on applications and no attempt is made to provide rigorous proofs. MATA26 is advisable for students who wish to take some courses in physical sciences or Mathematics in higher years. A student who completes MATA26 may take MATB41F and B42S, STAB52F and B57S in second year and the sequels to these courses in third year. The student will not be eligible to take some of the advanced Mathematics courses.
MATA27 is intended for those Commerce and Economics students who are not expecting to take MATB41/42.
MATA22 is essentially a calculus course with some applications to statistics. It is designed for students who have had no previous experience with calculus. A student should enrol in MATA22 only if he or she does not wish to take further Mathematics courses.
Irrespective of course prerequisites, Grade 13 students are urged to take as many of the Grade 13 mathematics courses as possible.

**Specialist Programme in Mathematics**
*Supervisor:* J.B. Wilker
The Specialist Programme is designed to give students a thorough grounding in the main areas of Mathematics. It is aimed at those students who may wish to pursue a career in mathematical research, teaching or in applications within government and industry.
In this Programme a total of eleven full-course equivalents is required:

*First year:*
MATA40F, MATA45S, MATA55Y*, CSCA58F and CSCA68S

*Second year:*
MATB25Y, MATB44F, MATB49S, MATB50F*, MATB55S*, STAB52F, STAB57S

*Third year:*
MATC49S, MATC51F, MATC56S, MATC53Y, MATC60F, MATC65S

*Fourth year:*
One further half-course from MATB70S, MATC34F, MATC54F, JMCC31F, JMCC32F, JMCC51S, STAC42F, STAC67S, JPMC42S
Students will normally take MATA55Y followed by MATB50F and MATB55S but may substitute MATA26Y followed by MATB41F, MATB42S and MATB43S.
Students are urged to choose at least two additional courses in other disciplines where mathematics is applied, such as Astronomy, Biology, Chemistry, Computer Science, Economics and Physics.

**Major Programme in Mathematics**
*Supervisor:* J.B. Wilker
The Major Programme is designed for students who wish a good basic understanding of mathematical technique rather than the full development of the theory. Students with a serious interest in the applications of mathematics and statistics could usefully combine this programme with a major programme in a field involving such applications.
In this Programme a total of eight full-course equivalents is required:
**1** MATA26Y or MATA55Y
**2** MATA40F, MATA45S, CSCA58F, CSCA68S, STAB52F, and STAB57S.
**3** MATB41F and MATB42S or MATB50F and MATB55S
**4** One further full-course equivalent from each of the following groups:
*a* MATC51F, MATC56S, MATC53Y, MATC60F, MATC65S, JPMC42S
*b* STAC42F, STAC52F, STAC67S, CSCB68F, CSCB73F, CSCC34F, JMCC51F
*c* MATB25Y, MATB44F, MATB49S, MATB70S, MATC43F, MATC49S, MATC54F, JMCC31F, JMCC32F
In any given year, some C- level courses may not be offered. Students should check with the divisional office.

**MATA22Y** Calculus with Statistics
Inequalities and absolute values. Functions limits. Derivatives. Exponential, logarithmic and trigonometric functions. Related rates. Extrema. Graph sketching. Newton's method. L'Hôpital's rule. Applications. Integrals as area. Indefinite and definite integrals. Techniques of integration. Numerical integration. Integrals as averages. An introduction to probability and statistics as an application of integration. Descriptive statistics. Probability. Probability functions and probability density functions. Expectations. Inference for the normal distribution.
Students must have a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses.
MATA22Y introduces the basic techniques of the calculus and their standard application. It will be assumed that students are familiar with the equations of lines and circles, and with elemen-

tary trigonometric functions, and logarithms. The course structure is lectures and tutorials.
Exclusion: MATA26; MATA27; MATA55; Grade 13 Calculus.
Prerequisite: One Grade 13 course in Mathematics
Session: Winter Day

**MATA26Y Calculus**
Limits and continuity, derivatives, related rates, extremum problems, graph sketching, Newton's method, indefinite and definite integrals, numerical integration, Taylor approximation and differential equations.

Students must have a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses. MATA26Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop these ideas by the investigation of specific examples. MATA26Y is a demanding course which will equip the student for most sciences and for further work in mathematics.
Exclusion: MATA22; MATA27; MATA55
Prerequisite: Grade 13 Calculus
Session: Winter Day, Summer Evening

**MATA27Y** *Techniques of Calculus*
Limits and continuity, derivatives, applications to related rates and extremum problems, graph sketching, Rolle's theorem and Mean Value Theorem, indefinite and definite integrals, L'Hôpital's rule, partial differentiation, Lagrange multipliers, first order differential and difference equations, elementary matrix algebra.

Students must have a calculator with memory and the exponential, logarithmic and trigonometric functions and their inverses. MATA27 is intended for those Commerce and Economics students who are not expecting to take MATB41/42.
Exclusion: MATA22; MATA26; MATA55
Prerequisite: Grade 13 Calculus
Session: Winter Day

**MATA40F Introduction to Linear Algebra**
Systems of linear equations and related matrix algebra. Vector spaces, subspaces, basis, dimension. Linear transformations: range and kernel, matrix representation. Geometry of $R^2$ and $R^3$.

MATA40F is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on the proofs of theorems as well as their applications. The course structure is lectures and tutorials.
Prerequisite: Grade 13 Functions and Relations or Grade 13 Algebra or Grade 13 Calculus.
Session: Winter Day

**MATA45S Linear Algebra I**
Complex numbers and polynomials. The determinant and characteristic equation of a matrix. Eigenvectors and eigenvalues for linear transformations of $R^n$ and $C^n$. Change of basis and canonical forms for orthogonal and unitary transformations. Diagonalization of quadratic forms. The course structure is lectures and tutorials.
Prerequisite: MATA40
Session: Winter Day

**MATA55Y Calculus with Analysis**
Numbers. Induction. Inequalities. Coordinates. Functions. Limits. Continuity. Uniform continuity. Derivatives and applications. Transcendental functions and applications. Techniques of Integration. Mean value theorems. Taylor's formula. L'Hôpital's rule. Sequences and series. Differential equations. Polar coordinates. Parametric representations and applications.

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.
Exclusion: MATA22; MATA26; MATA27
Prerequisite: Grade 13 Functions and Relations; Grade 13 Calculus.
Session: Winter Day

**MATB25Y Geometry**
Isometries in Euclidean plane and space. Similarities. Inversion in a circle. The inversive plane. Circle preserving transformations. Non-Euclidean geometry. Projective and affine geometry. Finite geometries. Free completions. Desargues's theorem and Pappus's theorem. Projectivities, homologies, elations. The fundamental theorem of projective geometry.

This 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: MATA45
Session: Winter Day

**MATB41F Techniques of the Calculus of Several Variables I**
Vector algebra in $R^n$, lines and planes in $R^3$, complex numbers, matrices, determinants and linear equations. Functions of several variables, partial derivatives, tangent planes, Jacobian matrix, chain rule and total derivative. Vector fields in $R^n$. Gradient, divergence and curl. Multiple integrals, spherical and cylindrical coordinates, law of transformation of variables.
Exclusion: MATB50
Prerequisite: MATA26, MATA27 or MATA55
Session: Winter Day

**MATB42S Techniques of the Calculus of Several Variables II**
Paths and path integrals. Surfaces, parametric representations of surfaces, surface integrals. Divergence, Gauss' and Stokes' theorems. Sequences and series of numbers and functions. Taylor series and complex Fourier series. Extremal problems. Extremal problems with constraints and Lagrange multipliers.
Exclusion: MATB50, MATB55
Prerequisite: MATB41
Session: Winter Day

**MATB43S Introduction to Analysis**
The least upper bound principle for R, limits in R and $R^2$, continuous functions in one and two variables, space filling curves and nowhere differentiable functions, existence of extrema on closed and bounded sets, mean value theorems and the fundamental theorems of the calculus, the Riemann integral.

This course is designed for students whose interest in mathematics has been stimulated by their experience in the A26 - B41 - B42 stream, and who wish to acquire the analytic techniques which are essential for more advanced work. In particular MATB43S together with MATB42S may be used instead of MATB55S for prerequisite purposes. There will be a fundamental emphasis on rigorous analytic proofs.
Exclusion: MATA55
Prerequisite: MATA45
Corequisite: MATB42
Session: Winter Day

**MATB44F Algebraic Structures I**
Groups: subgroups, normal subgroups, quotient groups, homomorphisms, permutation groups. Rings: ideals, quotient rings, homomorphisms, Euclidean rings, polynomial rings. Extension fields, roots of polynomials.
Exclusion: (MATC44)
Prerequisite: MATA45

**MATB49S Linear Algebra II**
Dual spaces, the transpose of a linear transformation, polynomial algebras over a field, prime factorization in F(x), determinants, Cayley-Hamilton theorem, invariant subspaces, canonical forms.
Exclusion: (MATB40)
Prerequisite: MATB44
Session: Winter Day

**MATB50F Analysis I**
Partial derivatives. Implicit differentiation. Extrema of functions with side conditions. Series of functions. Uniform convergence. Limit and derivative under the integral sign. Multiplication, differentiation and integration of series. Power series. The calculus of vector functions.

The course structure is three lectures per week.
Exclusion: MATB41; MATB42
Prerequisite: MATA45; MATA55
Session: Winter Day

**JMPB50F Symbolic Logic**
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 theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed, but the emphasis is on techniques. D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning* (for deductive techniques only).
Session: Winter Day
J.H. Sobel

**MATB55S Analysis II**
The topology of the 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 rigour is emphasized.)

The course structure is three lectures per week.
Exclusion: MATB41; MATB42
Prerequisite: MATB50
Session: Winter Day

**MATB70S Introduction to Number Theory**
Some elementary properties of integers. Prime numbers. Congruences. Diophantine equations. Quadratic residues. Rational approximation.

MATB70S 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 is three lectures per week.
Prerequisite: MATA45
Session: Winter Day

***JMCC32F Graph Theory and Algorithms for its Applications***
Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank form scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.
Prerequisite: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science
Session: Winter Day

***JPMC42S Advanced Classical Mechanics***
Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.
Prerequisite: PHYA02 or PHYA03 (or PHYA01); MATC51
Session: Winter Day

***MATC51F Differential Equations I***
First order equations: separable, homogeneous, linear, exact, integrating factors. Brachistochrone, exponential growth, cooling bodies. Second order equations: reducible, linear, constant coefficients, Euler equations. Wronskian, undetermined coefficients, variation of parameters. Initial value problems. Higher order linear equations. Vibrations, electric circuits, laws of Kepler and Newton. Power series solutions and method of Frobenius. Laplace transforms. Three lectures per week.
Prerequisite: MATB42 or MATB50 (or MATB50 may be taken concurrently)
Session: Winter Day

**JMCC51S Numerical Methods**
Numerical methods and their implementation on a computer. Solution of linear and non-linear equations. Ill conditioned problems and error estimates. Numerical integration and solution of initial value problems for ordinary differential equations.

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 programing will be restricted to the writing of short driving and linking programmes.

Eight or nine assignments will be given.

The language of the packaged programmes is FORTRAN, for which a brief review will be given.
Exclusion: (MATB53)
Prerequisite: MATA40, MATB42 or MATB55, CSCA68
Session: Winter Day

**JMPC51S Symbolic Logic II**
A continuation of JMPB50F.

The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared.

The text is D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning*.
Prerequisite: JMPB50
Session: Winter Day
*J.H. Sobel*

**MATC53Y Real Analysis**
Sets and functions, Zorn's lemma, cardinal arithmetic, Schroder-Bernstein theorem. Lebesque measure and integration, convergence theorems, derivatives and integrals. Continuity compactness and connectedness in metric and topological spaces, Baire category. Banach spaces and the basic tools of functional analysis. Hilbert space and linear operators.
Exclusion: (MATC50), (MATC55)
Prerequisite: MATB40, MATB55 (In place of MATB55 a student may substitute MATB42 and MATB43)
Session: Winter Day

**MATC56S Differential Equations II**
Existence and uniqueness of solutions. Global qualitative analysis of solutions. Stability Theory. Poincaré-Bendixson. First order linear systems. Boundary value problems. Sturm-Liouville. Fourier series. Partial differential equations. Separation of variables. Heat, wave and Laplace equations. Bessel functions. Introduction to calculus of variations or difference equations. Three lectures per week.
Prerequisite: MATC51 (or MATB51)
Session: Winter Day

**MATC60F Complex Analysis I**
Complex arithmetic. Polynomials and elementary functions. Differentiation and the Cauchy Riemann equations. Cauchy's integral formula for differentiable functions and their Taylor expansion. Properties of analytic functions including Liouville's theorem, identity theorem, maximum modules theorem and open mapping theorem. Laurent expansion and classification of isolated singularities. Residue calculus.

The course structure is three lectures per week.
Prerequisite: MATB55 or MATB42
Session: Winter Day

***STAB52F Probability and Statistics I***
An introduction to probability theory. The probability model. Presentations of probability. Marginal probability. Statistical independence. Conditional probability. Mean value. Weak Law of Large Numbers and the Central Limit Theorem. Theory and applications.

The course structure is lectures and tutorials.
Exclusion: ECOB11, (MATB52)
Prerequisite: MATA26, MATA27 or MATA55
Session: Winter Day

**STAB57S Probability and Statistics II**
An introduction to statistics. The statistical model. Large sample methods. Distribution-free methods. The likelihood function. Estimation. Testing hypotheses. Linear models. Design of experiments. Theory and applications.

The course structure is lectures and tutorials.
Exclusion: PSYB07, ECOB11, (MATB57)
Prerequisite: STAB52 (MATB52)
Session: Winter Day

**STAC42F Multivariate Analysis**
The multivariate normal distribution and associated distribution theory. Statistical inference for the multivariate normal, principal components analysis, factor analysis, discriminant analysis.
Prerequisite: STAB57 (MATB57)
Corequisite: MATB41
Session: Winter Day

**STAC67S Regression Analysis**
The statistical analysis of linear models. Transformations. The analysis of covariance. Bioassay. Computational procedures.
Exclusion: (MATC67)
Prerequisite: STAB57 (MATB57)
Session: Winter Day

**Courses Not Offered in 1981-82**

**MATA25S** Thinking Mathematically
*Prerequisite:* One Grade 13 course in Mathematics or permission of instructor

**JMCC31F** Combinatorics
*Prerequisite*: (MATB40) and at least one other B level course in Mathematics or Computer Science

**MATC32S** Advanced Topics in Mathematics
*Prerequisite*: MATA45 and MATB42 or MATB55

**MATC43F** Linear Algebra III
*Exclusion*: (MATB45)
*Prerequisite*: MATB49

**MATC49S** Algebraic Structures II
*Prerequisite*: MATB49

**MATC54F** Differential Geometry I
*Prerequisite*: MATA45, MATB42 or MATB55
*Corequisite*: MATC51

**MATC65S** Complex Analysis II
*Prerequisite*: MATC60

**STAC52F** Experimental Design
*Exclusion*: PSYB08, (MATC52)
*Prerequisite*: STAB57 (MATB57)

**Courses Not Offered in 1982-83**

**JMCC32F** Graph Theory and Algorithms for its Applications
*Prerequisite*: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science

| | |
|---|---|
| **MATC32S** | Advanced Topics in Mathematics<br>*Prerequisite:* MATA45 and MATB42 or MATB55 |
| **MATC53Y** | Real Analysis<br>*Exclusion*: (MATC50), (MATC55)<br>*Prerequisite*: MATB55, MATB49 (or MATB40) |
| **STAC42F** | Multivariate Analysis<br>*Prerequisite*: STAB57 (MATB57)<br>*Corequisite*: MATB41 |

# Medieval Civilization

The courses in these Programmes encompass the breadth of European and Mediterranean culture running from the late Roman Period and culminating, in the West, in the Renaissance of the fifteenth century.

**Specialist Programme in Medieval Civilization**
*Supervisor:* J. Corbett
Students will be expected to complete ten full-course equivalents from the following areas:
**1** The Arts (Fine Art, Archaeology, Drama and Music)
**2** History
**3** Language and Literature
**4** Philosophy and Religion
Students are to select three full-course equivalents each from three of the four areas, and one from the remaining area. HISB06Y is required of all participants. Two of the ten full-course equivalents must be C-level seminars or C-level reading courses requiring major research papers. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

**Arts**

| | |
|---|---|
| ANTB27Y* | Prehistoric Archaeology: Field Methods and Materials |
| DRAB03Y | The History of Theatre I |
| DRAB12B | Medieval and Early Tudor Drama: The Texts and their Production |
| FARA11S | Medieval Art |
| FARB10F | Carolingian and Romanesque Art and Architecture |
| FARB11F/S | Gothic Architecture |
| FARB16Y | The Arts in Northern Europe ca. 1400-1500 |
| MUSB04F/S | Music of the Renaissance |

**History**

| | |
|---|---|
| ANTB41S* | Pre-Industrial Technology |
| GERB33S* | Practicum in the History and Structure of the German Language |
| GRHB03Y | Roman History from the Gracchi to Nero |
| HISB06Y | Europe in the Middle Ages |
| HISB07Y | Russia from the Thirteenth Century to the Present |
| HISB61Y* | The Beginnings of France: Constantine to Charlemagne |
| HISC20F/S* | Anglo-Saxon England |
| HISC62Y* | The Crusades |

**anguage and Literature**

| | |
|---|---|
| ENGB01Y | Old English Language and Literature |
| ENGB02Y | Chaucer |
| ENGB12Y* | English Drama to 1642 |
| ENGC01Y* | Advanced Studies in Beowulf and other Old English Poetry |
| ENGC03Y* | Studies in Middle English Language and Literature |
| FREB42F* | General History of the French Language |
| FREC22Y* | Introduction to Medieval French Language and Literature |
| GERB33S* | Practicum in the History and Structure of the German Language |
| GERC23F*) | Introduction to Middle High German |
| UMC01F/S* | Lyric Poetry of the Middle Ages in the Mediterranean Area |
| TAB31Y* | Dante and Medieval Culture |
| TAB32F* | Petrarch and Boccaccio |
| ATA01Y | Introductory Latin |
| ATB30F* | |
| ATB33F* | |
| ATB35S* | |
| ATB39S* | |
| ATB40Y* | Supervised Reading |
| PAB12S* | History of the Spanish Language I |
| PAB35F/S* | Medieval Prose Literature |
| PAB36F* | Medieval Poetry |

**hilosophy and Religion**

| | |
|---|---|
| LAB21Y* | Greek and Roman Religion |
| LAB23F/S | Christianity in the Greco-Roman World |
| UMB20Y* | Primitive Christian Literature and Myth |
| UMB33Y | World Visions from the Late Middle Ages to the Renaissance |
| UMC20Y* | Jesus in Early Christianity and Judaism |
| UMC22S* | John: Gospel and Letters |
| HLB40F | Plato and His Predecessors I |
| HLB41S | Plato and His Predecessors II |
| HLB42F | Aristotle I |
| HLB43S | Aristotle II |
| HLB44F | Philosophers of the Middle Ages I |
| HLB45S | Philosophers of the Middle Ages II |
| HLB61F/S | Philosophy of Religion |
| HLC88S* | Seminar in Philosophy: St. Augustine's Philosophic Dialogues |

Students should check these courses for erequisites.

**Major Programme in Medieval Civilization**
*Supervisor:* J. Corbett
Students will be expected to complete seven full-course equivalents from the following four areas:
**1** The Arts (Fine Art, Archaeology, Drama and Music)
**2** History
**3** Language and Literature
**4** Philosophy and Religion
Students are to select two full-course equivalents each from three of the four areas, and one from the remaining area. HISB06Y is required of all participants. One of the seven full-course equivalents must be a C-level seminar or C-level reading course requiring a major research paper. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

# Modern Languages

**Specialist Programme**
*Supervisor:* G. Trembley
The Modern Languages Major Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the programme consisting of LINA01Y, General Linguistics, and a choice from a set of courses which relate languages to broader social and historical or cultural areas. There are ten possible combinations as follows: French and German, French and Italian, French and Spanish, German and Italian, German and Spanish, Italian and Spanish, French and Linguistics, German and Linguistics, Italian and Linguistics, Spanish and Linguistics.

For every combination, students must satisfy the following requirements:

**1** The courses listed under the Major Programmes in two of: French, German, Italian, Linguistics, Spanish.

**2** One full-course equivalent from the following:

| | |
|---|---|
| ANTA01Y | Introduction to Anthropology |
| ANTB30Y | Language and Culture |
| HISA01Y | European World |
| HUMA01Y | Prologue |

NOTE: Although there is no Russian Language Major Programme, students may combine the Russian Language and Literature Major or the Russian and Related Studies College Programme with any of the above mentioned Language Programmes.

# Music

*Discipline Representative:* T.J. McGee
Music is one of the liberal arts. The courses at Scarborough emphasise a humanistic approach to the subject and stress the relationship of Music to other subjects such as Fine Art, Drama, History, Languages and Literatures and Philosophy. Individual musical works are studied from two broad points of view, the critical and the historical. The first approach examines the single composition and attempts to understand, explain and illuminate our experience of it; the second approach sees the particular work as an example of larger stylistic tendencies and tries to explain these in a historical context. Both approaches rely on the sensitivity of the listener and his ability to communicate. Much of the course work, therefore, is directed towards improving the student's aural awareness and his ability to think and write clearly about all types of music.

All students are encouraged to take advantage of the various opportunities which exist in the College for practical music making.

**Major Programme in Music**
*Supervisor:* T.J. McGee
Students are required to complete a total of six full-course equivalents in Music and related areas. The six courses will be made up as follows:

1. MUSA01Y Introduction to Music
   MUSB17F/S Materials of Music I
2. Two full-course equivalents from:
   MUSB04F/S Music of the Renaissance
   MUSB05F/S Music of the Baroque Era
   MUSB02F/S Music of the Classic Period
   MUSB06F/S Music of the Romantic Period
   MUSB01F/S Music of the Twentieth Century
   (also available on St. George campus as MUS201H, when not offerred at the College.)
3. One and one half full-course equivalents chosen from MUS courses.
   To satisfy the requirements of this section, students may substitute, in consultation with the Supervisor one or more of the MUS courses offered on the St. George campus (but see p. 19, i.e. information on limitation of courses).
4. One additional full-course equivalent in Music or another relevant discipline. The following courses are recommended: PHLB03F Philosophy and Art, FARB23 Early Renaissance in Florence, HUMB50S Machiavelli and Aspects of the Italian Renaissance, GERB25Y German Civilization and Culture, DRAB03Y

**USA01Y Introduction to Music**
tudy of the basic materials, principles of sign, and cultural significance of representa- works of Western and non-Western music, luding popular music from the Middle Ages to present. No musical training is required. A survey of the style changes in Western music m the Middle Ages to the present. The music is proached in terms of technical construction d style characteristics, and in relation to nds in art and society. The evolutionary pects of the various period styles are empha- ed as well as the individual characteristics of lected works. There will be three lecture hours r week.
ssion: Winter Day
*. McGee*

**USB04F Music of the Renaissance**
*tudy of the music* from the early fifteenth ntury until 1600.
This course concerns the variety of new forms, th sacred and secular, created during the naissance period, and the way in which the mposers expressed the new spirit of huma- m in their compositions.
There will be two lecture hours per week.
rerequisite: MUSA01
ssion: Winter Day
*. McGee*

**USB05S Music of the Baroque Era**
tudy of the music from the early seventeenth ntury until the death of Bach.
This course begins with a brief survey of the ious factors which led to the breakdown of the renaissance style. It continues with a study of "two practices" of Monteverdi, Schutz and ir contemporaries and discusses the early velopment of opera and oratorio with exam- s taken from the works of Cavalli, Carissimi, ly and Purcell. The course then turns to rumental music and examines the formation n idiomatic keyboard style by Frescobaldi, selinck and Froberger and the development he sonata, concerto and sinfonia in the hands orelli, Vivaldi and others. The late baroque is resented by the music of Couperin, Bach and ndel with selected works by these composers died in detail. Texts: Palisca, C., *Baroque sic*; Strunk, O. (ed.), *Source Readings in Music tory Vol. 3: The Baroque Era.*
here will be two hours of lecture and discus- n per week.
rerequisite: MUSA01
sion: Winter Day
*ayo*

**MUSB09H** *Supervised Performance I*
The study and performance of either vocal or instrumental music, supervised by a member of the faculty.

The practical study of a wide variety of music literature leading to public performance within the College. Instrumental students work in small ensembles arranged to suit the abilities of individual performers. Vocal students work in the Scarborough College Chorus or in small vocal ensembles. Previous experience is necessary for instrumental students, but not for vocal students. There will be two hours of group instruction per week. The formation of groups and the arrangement of times will take place during the first week of the fall term. (Please consult with music staff in S356.)
Corequisite: MUSA01
Session: Winter Day
*C. Walter, J. Mayo*

**MUSB10H Supervised Performance II**
A continuation of MUSBO9H.
*For further information see MUSB09.*
Prerequisite: MUSB09
Session: Winter Day
*C. Walter, J. Mayo*

**MUSB15F Music in Elizabethan England**
A study of music from England's *Golden Age*, with consideration of the cultural and historical context.

Topics to be studied will include: the style of Renaissance music on the continent; the Reformation: music for the Catholic and Anglican rites; instrumental music; the madrigal and lute song; music in Elizabethan drama; problems of modern performance.

There will be four hours per week of lecture and class discussion.

This course should prove of particular interest to students of ENGB10: Shakespeare and DRAB10: The Commedia Dell'Arte. (See the 1981 Summer Arts Brochure.)
Prerequisite: MUSA01 or permission of instructor.
*Session: Summer Evening*
*J. Mayo*

**MUSB17H Materials of Music I**
The basic materials of music from the seventeenth to the nineteenth century.

A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject will be emphasized

providing a secure foundation for the development of the student's "inner ear" -- that is, the ability to hear mentally what is written and to write down what the inner ear perceives.

There will be two hours of lecture/practical session per week.
Prerequisite: MUSA01
Session: Winter Day
*J. Mayo*

**MUSB18S** Beethoven
A study of selected symphonies, quartets and sonatas by Ludwig van Beethoven. The course traces the changes in the composer's style and technique from his development under the influence of the Classic masters to his contribution to the new dramatic expression of the nineteenth century.

There will be two lecture hours per week.
Prerequisite: MUSA01
Session: Winter day
*T.J. McGee*

**Courses Not Offered in 1981-82**

**MUSB01S** Music of the Twentieth Century
*Prerequisite:* MUSA01
**MUSB02F** Music of the Classic Period
*Prerequisite:* MUSA01
**MUSB06S** Music of the Romantic Period
*Prerequisite:* MUSA01 or (MUSB08)
**MUSB07S** The Symphony
*Prerequisite:* MUSA01 or (MUSB08)
**MUSB11F** Music for the Theatre
*Prerequisite:* MUSA01 or permission of instructor.
**MUSB12S** Stravinsky
**MUSB13S** Bach
**MUSB14S** Jazz

*Supervisor:* J. H. Corbett
This Programme combines an examination of human perception and experience of our religious and mythic heritage and institutions from the anthropological, historical, philosophical, sociological and literary points of view.

**College Programme in Myth and Religion**
*Supervisor:* J. H. Corbett
Nine full-course equivalents to be completed as follows:

| | | |
|---|---|---|
| 1 | HUMA01Y | Prologue |
| 2 | HUMA10Y | Introduction to the Study of Religion |
| | or | |
| | HUMA11Y | Greek and Roman Mythology |
| 3 | PHLA01Y | Fundamental Questions of Philosophy |
| 4 | ANTA01Y | Introduction to Anthropology |
| | or | |
| | SOCA01Y | Introduction to Sociology |
| | or | |
| | HISA01Y | The European World: An Introduction to History |
| 5 | ANTB23Y | Comparative Mythology |
| | or | |
| | HUMB28Y | Major Religious Traditions, East and West |
| | or | |
| | HUMB20Y | Primitive Christian Literature & Myth |
| 6 | HUMC10H* | Humanities Seminar |
| 7 | and three and one-half further full-course equivalents drawn from (2), (4) and (5) above and from the following: | |
| | ANTB02Y* | Anthropological Study of Religion |
| | ANTB50F/S* | Fact and Fiction in Anthropology |
| | ANTC02F/S* | Systems of Thought |
| | CLAB02Y | Greek and Roman Tragedy |
| | CLAB21Y | Greek and Roman Religion |
| | CLAB23F/S | Christianity in the Greco-Roman World |
| | HISB06Y | Europe in the Middle Ages |
| | HISB13Y* | Europe in the Reformation Era 1500-1650 |
| | HISB14Y* | France in the Seventeenth Century (1589-1715) |
| | HISB44F/S* | Canadian Religious Traditions |
| | HISB61Y* | The Beginnings of France: Constantine to Charlemagne |
| | HISC14Y* | The European Mentality in the Early Modern Period (1500-1700) |
| | HISC43F/S* | Selected Topics in Canadian Religious History |
| | HISC62Y* | The Crusades |
| | HUMB21F/S | The Literature of the Spanish Mystics |
| | HUMB29F/S | Religion and Western Culture |
| | HUMB35F/S | The Ulysses Factor |
| | HUMB39F/S | Fantasy in Narnia and Middle Earth |
| | PHLB44F | Philosophers of the Middle Ages I |
| | PHLB45S | Philosophers of the Middle Ages II |
| | PHLB61F/S | Philosophy of Religion |
| | SOCB03Y* | History of Social Thought |
| | SOCC20F/S* | Sociology of Religion |

Students should check these courses for prerequisites.



Sciences for the citizen.

What is a quasar? How many defective genes am I carrying? How many dollars should Canada spend in support of nuclear fusion research? What is a laser? Why didn't the Green Revolution work? Such questions about the late twentieth century view of the universe in which we live, about the complex technology which affects our present lives and changes public issues are difficult to answer without some knowledge of the methods and concepts of the natural sciences. The courses listed below may help those studts whose primary interests are in the humanities or social sciences and who may lack high school science or mathematics to come into touch with contemporary science.

**NSCA02Y Introduction to Natural Science: The Biological Sciences**
An introduction to the central ideas of Biology with the aim to acquaint the student with the ways in which these concepts are interrelated.

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. 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 lectures and discussion periods.
Exclusion: Not open to students who are taking or have taken BIOA03
Session: Winter Evening
*G.R. Williams*

**Courses Not Offered in 1981-82**

**NSCA01Y** Introduction to Natural Science: The Physical Sciences
*Exclusion:* PHYA02 or PHYA03 (or PHYA01)

For (NSCA03Y) QUAA03Y and (NSCB02Y) QUAB02Y see Quaternary Studies

Students should also refer to the following courses:

| | |
|---|---|
| ASTA03Y | Introduction to Astronomy |
| GLGA02S | Geology in the Urban Environment |
| HUMC11Y | The Darwinian Revolution |
| MATA25S | Thinking Mathematically |
| PHLB70F | Philosophy of Science |
| PHLB87S | Contemporary Philosophical Issues Biomedical Ethics |

# Neurosciences

As an area of study the Neurosciences has amalgamated aspects of a variety of disciplines with the goal of understanding behaviourial, biological and biochemical processes in nervous systems. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology have been successfully applied to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in the Neurosciences have made fundamental contributions in the clinical aspects of medicine and behaviour.

The Specialist Programme in Neurosciences primarily includes courses from the two major contributing disciplines of Psychology and Biology. It has been designed for students wishing to pursue graduate training in the Neurosciences or related fields, as well as those wishing greater depth and more direct experience than is provided by the Major Programme. The Major Programme is intended to provide a comprehensive exposure to the main content areas in the Neurosciences and recommended for those students interested in the breadth of knowledge concerning the brain and related systems.

**Specialist Programme in Neurosciences**
*Supervisor:* D. Chute
The programme requires completion of eleven and one-half full-course equivalents plus four full courses in prerequisite and cognate disciplines. Elective courses should be chosen in consultation with your advisor or the supervisor. The following outline includes these required courses and indicates the most advantageous sequencing.

**1** To be completed in the first year of full-time study (or equivalent).

| | |
|---|---|
| PSYA01Y | Introduction to Psychology |
| BIOA03Y | Introductory Biology |
| CHMA02Y | General Chemistry |
| MATA22Y | Calculus with Statistics |
| or | |
| MATA26Y | Calculus |
| or | |
| MATA55Y | Calculus with Analysis |

**2** To be completed by the second year of full-time study (or equivalent).

| | |
|---|---|
| CHMB05Y | Organic Chemistry I |
| PSYB07F | Data Analysis in Psychology |
| BIOB17Y | General and Comparative Physiology |
| PSYB60F | Brain Mechanisms and Behaviour I |
| PSYB61S | Brain Mechanisms and Behaviour II: Physiology of Motivation and Learning |

**3** To be completed by third year of full-time study (or equivalent).

| | |
|---|---|
| JBCB35Y | Introductory Biochemistry |
| JBCB36H | Laboratory in Biochemistry |
| PSYB62Y | Research in Physiological Psychology |
| PHYA03Y | Physics for the Life Sciences I |

Of the three elective full-course equivalents available in the second and third year, one and one-half must be selected from the list of concentration electives below.

**4** To be completed by the fourth year of full-time study (or equivalent).
At least one of:

| | |
|---|---|
| PSYC60F | Current Topics in Comparative and Physiological Psychology |
| PSYC66S | Clinical Psychopharmacology |

Two and one-half full-course equivalent concentration electives selected from the list below. Students planning advanced study in the Neurosciences are advised to consider:

| | |
|---|---|
| PSYC98 | Thesis in Psychology |
| or | |
| PSYC90/C93 | Supervised Study in Psychology |
| BIOC01Y/C02Y | Supervised Study in Biology |

**Major Programme in Neurosciences**
*Supervisor:* D. Chute
The programme requires seven and one-half full-course equivalents. Students who might consider completing a Four-Year Degree are encouraged to include in the electives below the following courses:

PHYA03, CHMB05, JBCB35 and JBCB36, so that they would be eligible for the specialist programme.

Students should note Programme Requirements Rule number 11 (b) on page 15 of the calendar which could limit the availability of Psychology or Biology in fulfilment of the two Major Programmes option for a Four-Year Degree.

The following outline indicates the required courses and the most advantageous sequencing for the Major Programme in Neurosciences.

**1** To be completed in the first year of full-time study (or equivalent).

| | |
|---|---|
| PSYA01Y | Introduction to Psychology |
| BIOA03Y | Introductory Biology |
| CHMA02Y | General Chemistry |
| MATA22Y | Calculus with Statistics |
| or | |
| MATA26Y | Calculus |
| or | |
| MATA55Y | Calculus with Analysis |

**2** To be completed by the second year of full-time study (or equivalent).

| | |
|---|---|
| PSYB07F | Data Analysis in Psychology |
| BIOB17Y | General and Comparative Physiology |
| PSYB60F | Brain Mechanisms and Behaviour I |
| PSYB61S | Brain Mechanisms and Behaviour II: Physiology of Motivation and Learning |

**3** To be completed by the third year of full-time study (or equivalent).

| | |
|---|---|
| PSYB62Y | Research in Physiological Psychology |

Students are advised in consultation with the supervisor to consider selecting some electives from the list below.

Relevant Neuroscience courses available at the St. George or Erindale campuses in such departments as Anatomy, Biochemistry, Pharmacology, Physiology, Psychology and Zoology may be used to satisfy a required or elective course in either the Specialist of Major Programmes, with the permission of the supervisor of studies.

Students in both Specialist and Major Programmes should obtain a copy of the Neuroscience Programme booklet which provides general information including the research and special interests of faculty members, and a listing of relevant courses from the other campuses.

*List of Concentration Electives*
Students should consult with the supervisor of studies concerning the availability of courses and possible changes in this listing.

| | |
|---|---|
| PSYB08S | Experimental Design in Psychology |
| PSYB09S | General Experimental Psychology |
| PSYB32F/S | Abnormal Psychology |
| PSYB33S | The Measurement of Psychological Attributes |
| PSYB40F | Learning |
| PSYB45F | Behaviour Modification: Origins and Application |
| PSYB50F | Sensation and Perception |
| PSYB51F | Perceiving and Knowing |
| PSYB52S | Human Information Processing |
| PSYB57S | Human Learning and Memory |
| PSYB65F | Biological Foundations of Behaviour |
| PSYC40S | Current Topics in Animal Learning |
| PSYC41F | Research in Operant Conditioning |
| PSYC53S | Current Topics in Human Information Processing |
| PSYC56F | Computers in Psychology |
| PHYB13Y | Physics for the Life Sciences II |
| BIOB05Y | Genetics |
| BIOB08Y | Invertebrate Zoology |
| BIOB11Y | Animal Population and Evolution |
| BIOB19S | Biology of Macromolecules |
| BIOB20F | Cell Ultrastructure |
| BIOB22Y | Comparative Vertebrate Morphogenesis |
| BIOB23Y | Developmental Biology |
| BIOB27Y | Comparative Vertebrate Histology |
| BIOB31F | Invertebrate Neurobiology |
| BIOB43Y | General Vertebrate Biology |
| BIOC05S | Advances in Developmental Biology |

# Philosophy

*Discipline Representative:* J.H. Sobel
Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two year cycle: those not offered in one academic year will normally be available in the following year while PHLA01, PHLB01, PHLB20, JMPB50 and PHLB60 are offered every year. It should be noted that in almost all subject areas Fall/Spring sequences are offered which when combined provide the equivalent of a full course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative.

**Specialist Programme in Philosophy**
*Supervisor:* J.H. Sobel
Students must complete at least eleven and one-half full-course equivalents including:

1 PHLA01Y Fundamental Questions of Philosophy
   PHLB01F Morality and Values
   PHLB20F/S Belief, Knowledge and Truth
   JMPB50F Symbolic Logic
   PHLB60F/S Existence and Reality
2 Four half-courses from PHLB40F to PHLB49S
3 Three half-courses in C-level Philosophy courses
4 Six additional half-courses in Philosophy
5 Two full-course equivalents from cognate courses in other disciplines agreed upon in consultation with the Supervisor.

*Cognate Courses*
Philosophy students should seriously consider the advantages of studying a foreign language, especially French, German, Greek or Latin. Two full-course equivalents in a foreign language will give students access to much philosophical thought in its original language and to many secondary sources not available in English.

There is a variety of courses in Classics, English, Fine Art, History and Humanities which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUMA01Y, Prologue; HISA01Y, European World; ASTA03Y, Introduction to Astronomy; NSCA01Y, Introduction to Natural Science: The Physical Sciences; NSCA02Y, Introduction to Natural Science: The Biological Sciences; as courses which provide important intellectual and historical background for the study of Philosophy.

**Major Programme in Philosophy**
*Supervisor:* J.H. Sobel
Students must complete at least six full-course equivalents in Philosophy including:

1 PHLA01Y Fundamental Questions of Philosophy
2 Two of the following half-courses:
   PHLB01F Morality and Values
   PHLB20F/S Belief, Knowledge and Truth
   JMPB50F Symbolic Logic
   PHLB60F/S Existence and Reality
3 Two half-courses from PHLB40F to PHLB49S
4 Two half-courses in C-level PHL courses
5 Four additional half-courses in Philosophy

NOTE: In certain cases students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing one of these modifications must have the approval of the Supervisor.

The Major Programme may be modified as follows:
(a) *Students in Social Sciences (ANT, COM, ECO, GGR, POL, SOC)* should complete (1), (2), and (3) as above; three half-courses from: PHLB05F, PHLB10F/S, PHLB11F/S, PHLB12F, PHLB14F/S, PHLB16F/S, PHLB17S; one half-course in C-level PHL courses, and two additional half-courses in Philosophy.
(b) *Students in the Arts (DRA, FAR, MUS)* should complete (1), (2), (3), and (4) as above, PHLB03F/S, and three additional half-courses in Philosophy. (At least one of the C-level courses should be an independent study course related to the student's area of concentration in the Arts.)
(c) *Students in Psychology* should complete (3) and (4) as above, three half-courses from (2), PHLB05F/S, PHLB70F/S, PHLB81F/S, and two additional courses in Philosophy. (At least one C-level course should be related to Problems Psychology.)
(d) *Students in Natural Sciences (AST, BIO, CHM, CSC, GLG, MAT, PHY)* should complete (3) and (4) above, three half-courses from (2), PHLB05, PHLB70 or PHLB71, PHLC71, and two additional

**HLA01Y: L01 Fundamental Questions of Philosophy**
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?
In 1981-82 the following topics will be discussed: the basis of morality, the relationship of thought to reality, the nature of space and time, causality, determinism, and the existence of God. Texts: Plato, *Republic;* Hick, J., *The Philosophy of Religion;* Berofsky, B., *Free Will and Determinism.* Three hours of lectures per week.
Session: Winter Day

**HLA01Y: LO2 Fundamental Questions of Philosophy**
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?
An historical approach will be taken to these questions. We will begin with the philosophers of ancient Greece, then consider their influence on Christianity in the medieval period. We will then study the philosophers of the early modern period, and conclude with a look at contemporary philosophy. Study and lectures will be about evenly divided between descriptions of the history of philosophy and first-hand acquaintance with the philosophers' own writings. The text will be Samuel Stumpf, *Philosophy: History and Problems*. Three hours of lecture per week.
Session: Winter Day
*G. Nagel*

**HLA01Y: L03 Fundamental Questions of Philosophy**
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?
Session: Winter Day
*J.C. Graham*

**HLA01Y: L30 Fundamental Questions of Philosophy**
A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?
Session: Winter Evening

**PHLB01F Morality and Values**
A study of philosophical problems and postures in ethics, such as the relativity of values, the justification of morality, moral scepticism, ethical egoism, utilitarianism, deontologism.
This course is an introduction to the problems and concepts of ethical theory as found in four pre-eminent texts: *The Republic* by Plato, *Nicomachean Ethics* by Aristotle, *An Enquiry Concerning the Principles of Morals* by Hume, and Kant's *Foundations of the Metaphysics of Morals*.
Session: Winter Day
*J.H. Sobel*

**PHLB03F Philosophy and Art**
A study of the nature and purposes of art.
We will study the history of aesthetics from Plato to Camus. Each week will involve readings, lectures, and discussion of another theory. The theories vary in their topics and concerns. Plato, Tolstoy and Camus discuss art in its social function - its power to influence people. Burke is interested in the psychology of the aesthetic response. Kant borrows from Burke and adds his own theory of pure art. Hegel and Schopenhauer regard art metaphysically, as an expression of the most fundamental features of the universe. Text: Peyton Richter, *Perspectives in Aesthetics*. Three hours of lectures a week.
Session: Winter Day
*G. Nagel*

**PHLB04S Philosophy in Literature**
An examination of philosophical theories and claims in literary works.
Philosophical problems are not only treated in philosophy books but are often presented, sometimes much more vividly, in works of literature. Our course is meant to study this phenomenon, and this year will concentrate on one theme, false consciousness. We shall examine how writers have depicted error, ignorance, self-deception, madness, alienation, and deceit. Here are some of the works that we shall discuss: Sophocles, *Oedipus Rex*; Machiavelli, *The Prince*; Molière, *Tartuffe*; Pirandello, *Henri IV*; Kafka, *The Trial*. Three hours of lecture a week.
Session: Winter Day
*A. Gombay*

**PHLB05F Social Issues**
An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery, etc.), eugenics, ecology, civil disobedience, policies towards the Third World and towards the poor.
In 1981 the course will examine the moral issues involved in consideration of: human sexual relations, abortion, world hunger, discrimination, and capital punishment. Two hours of lecture a week.
Session: Winter Day, Summer Evening
*R.P. Thompson, A. Gombay*

**PHLB11F Philosophy of Law**
A study of questions such as the following: What is the relation between law and morality? What is justice? How are concepts such as responsibility, intention and negligence treated in the law? What is legal reasoning like?
The course has two parts. The first examines the notion of legal responsibility and attendant concepts (intention, foresight, negligence, recklessness, insanity): how are these treated in the law? The second part examines the notion of legality: what is required for the existence of a legal system? Reading: Feinberg and Gross, *Philosophy of Law*. Lectures and tutorials.
Session: Winter Day
*A. Gombay*

**PHLB12F Marx and Marxism**
The philosophies of Marx, Engels, Lenin and others.
Prerequisite: One course or half-course in Philosphy, Sociology, Political Science or Economics- PHLB10 is recommended but not required.
Session: Winter Evening
*W. Graham*

**PHLB15S Philosophy of Education**
A study of the nature of education.
Educational theories are practical theories of human nature. They must characterise what a person is by birth or by natural development, and what a person may become through education. We will study several schools of thought: naturalism, existentialism, behaviourism, and structuralism. Text: John Paul Strain, *Modern Philosophies of Education*. Three hours of lecture a week.
Session: Winter Day
*G. Nagel*

**PHLB17S Anarchism**
A study of major anarchists and problems of libertarian thought and practice; the impact of anarchism on social, cultural and political institutions; classical and contemporary anarchists such as Proudhon, Bakunin, Kropotkin, Tolstoy, Sorel and others.
Session: Winter Evening
*W. Graham*

**PHLB20F Belief, Knowledge and Truth**
An examination of such questions as certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.
Session: Winter Day

**PHLB42F Aristotle I**
A study of central themes in the philosophy of Aristotle.
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. Text: *The Basic Works of Aristotle*, Richard McKeon, editor; *The Pre-Socratics*, Philip Wheelwright, editor.
Session: Winter Day
*W. Graham*

**PHLB43S Aristotle II**
A continuation of PHLB42F.
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. Text: *The Basic Works of Aristotle*, Richard McKeon, editor.
Session: Winter Day
*W. Graham*

**PHLB44F Philosophers of the Middle Ages I**
A study of central themes in the philosophy of Christian, Islamic and Jewish thinkers such as Augustine, Boethius, Avicenna, Alfarabi, Maimonides, Anselm, Aquinas, Ockham.
Session: Winter Evening

**PHLB46F Philosophy of the Early Modern Age I**
Philosophy in the seventeenth century.
In the seventeenth century a new conception of knowledge was born, ours; the course will trace the birth and development of this conception in the works of Galileo, Descartes, Leibniz, and Newton. The readings will be, Galileo, *Opinions and Discoveries*, (ed. S. Drake), Descartes, *Philosophical Writings* (ed. Anscombe and Geach), Leibniz, *Philosophical Works* (ed. Parkinson), Newton, *Natural Philosophy* (ed. Thayer).
Session: Winter Day
*A. Gombay*

**PHLB47S Philosophy of the Early Modern Age II**
Philosophy in the eighteenth century.
In the eighteenth century Kant attempted to bring together the rationalist and empiricist philosophies. He owed much to Descartes, Locke, Leibniz, and Hume. We will begin with a survey of the most important influences on Kant, then continue with a detailed study of his theories of nature and mind. We will also discuss a recent book in cognitive psychology that shares some of Kant's main concerns. Text: Kant, *The Critique of Pure Reason* (trans. Kemp Smith); U. Neisser, *Cognition and Reality*.
Session: Winter Day
*G. Nagel*

**PHLB50F Symbolic Logic**
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 theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed, but the emphasis is on techniques. D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning* (for deductive techniques only).
Session: Winter Day
*H. Sobel*

**PHLB53S The Art of Thinking**
An examination of the ways in which arguments can be identified, common fallacies can be avoided, and clear thinking can be achieved.
This course aims to develop skill in identifying ambiguities, evaluating arguments, constructing counter-examples, evaluating premises and constructing arguments.
The course will be presented through two hours of lectures per week.
Session: Summer Evening
*R.P. Thompson*

**PHLB60S Existence and Reality**
A consideration of problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, identity, causality, mind, and value. These are very basic concepts employed in perceiving, categorizing and classifying reality.
Session: Winter Evening

**PHLB61S Philosophy of Religion**
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 Judaeo-Christian tradition; the topics are philosophical problems 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 omnipotence 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. The teaching method is lectures and discussion.
Session: Winter Day
*P. Gooch*

**PHLB70F Philosophy of Science**
A study of philosophical questions raised by the natural sciences.
We will look at scientific thought in a variety of ways (none of them requiring a technical background in the sciences). Our topics will include discovery and testing, the growth of modern science, the differences between the physical and human (or social) sciences, and explanation. The course will be divided into five units of 2-3 weeks each, and each will be followed by a test or short essay. The text will be Frederic Mosedale, *Philosophy and Science*. The teaching method is lectures and discussion.
Exclusion: PHLB71
Prerequisite: One course or half-course in Philosophy or in the Division of Science.
Session: Winter Day
*G. Nagel*

**PHLB71F Philosophy of Biology**
An examination of the conceptual and logical aspects of explanation, theory, and model construction in Biology.
In 1981-82 the following topics will be covered: the concept of cause and its role in causal explanation; conceptual and logical aspects of testing

causal hypotheses in biology; the logical structure of scientific theories (with special emphasis on the theory of evolution); the Kuhnian concept of paradigms in science; and the role of models in biology. Two hours per week of lecture/discussion.
Exclusion: PHLB70
Prerequisite: BIOA03
Session: Winter Day
*M. Ruse*

**PHLB81S** Theories of Mind
An examination of the philosophical presuppositions of psychological theories such as those of Freud and Jung, Behaviourism 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.
Prerequisite: One B-level course or half-course in Philosophy or Psychology
Session: Winter Day
PHLB88S

**PHLC02S** Contemporary Ethical Theories
The nature of morality. Questions suggestive of its content are: what bearing, if any, have facts establishable empirically upon values and duties? are values and duties facts of another order quite apart? are values and duties objective facts of any order, or is ethics rather only a region for decisions and commitments which, though they can be more or less well informed, cannot be objectively right or wrong?
Prerequisite: One full-course equivalent in Philosophy including PHLB01
Session: Winter Day
*J.H. Sobel*

**PHLC11S** Topics in the Philosophy of Law
A discussion of right and rights, justice, legality, and related concepts.
Topics this year: Rights and Justice. We shall discuss such questions as: what are rights? are there natural rights? how are rights related to obligations? is there a right to privacy, or to civil disobedience? is justice derivable from utility? is justice fairness? does justice require 'reverse discrimination'? We shall mainly consider the views of recent authors, e.g. Hart, Dworkin, Rawls and Nozick. The teaching method is lectures and discussion.
Prerequisite: PHLB11
Session: Winter Day
*A. Gombay*

**JMPC51S** Symbolic Logic II
A continuation of JMPB50F.
The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared.
The text is D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning*.
Prerequisite: JMPB50
Session: Winter Day
*J.H. Sobel*

**PHLC71S** Advanced Topics in Philosophy of Biology
A seminar course dealing with conceptual and logical aspects of explanation and theory in Biology, and logical and heuristic aspects of models in Biology.
In 1981-82 the following topics will be covered: the logical structure of the theory of evolution, the conceptual assumptions underlying the theory of evolution, the logic of evolutionary and functional explanation, and the logical and heuristic aspects of the general model on non-parametric entrainment in circadian rhythm research. Seminar two hours per week.
Exclusion: (PHLC87)
Prerequisite: PHLB70 or PHLB71; permission of instructor
Session: Winter Day
*M. Ruse*

**PHLC95F/S**
**PHLC96F/S**
**PHLC97F/S**
**PHLC98F/S**
**PHLC99Y** Independent Studies
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor
Session: Winter Day
*Staff*

**Courses Not Offered in 1981-82**

**PHLB10F/S** Society, the State and the Citizen
**PHLB14F/S** Philosophy of Social Science
*Prerequisite:* One course in Philosophy or in the Division of Social Sciences
**PHLB16F/S** Philosophy of History
**PHLB30S** Existentialism





**LB40F** Plato and His Predecessors I
**LB41S** Plato and His Predecessors II
*Prerequisite:* PHLB40
**LB45S** Philosophers of the Middle Ages
**LB48F** Philosophy in the Later Modern Age I
**LB49S** Philosophy in the Later Modern Age II
**LB80F/S** Philosophy of Language
*Prerequisite:* One B-level course or half-course in Philosophy or Linguistics
**LB87F/S** Contemporary Philosophic Issues: Biomedical Ethics
*Prerequisite:* PHLB05 or PHLB01
**LB88F/S** Contemporary Philosophic Issues
*Prerequisite:* One full-course equivalent in Philosophy
**LB89F/S** Contemporary Philosophic Issues
*Prerequisite:* one full-course equivalent in Philosophy including PHLB80F
**LC52S** Modal Logic and Probability
*Prerequisite:* JMPB50
**LC53F/S** Games and Decision
*Prerequisite:* A B-level course in economics, political science, sociology, psychology, philosophy, mathematics or logic
**LC54F/S** Metalogic
*Prerequisite:* JMPB50
**LC87F/S** Seminar in Philosophy
*Prerequisite:* PHLB70 or PHLB14; permission of instructor
**LC88F/S** Seminar in Philosophy
*Prerequisite:* Two B-level half-courses in Philosophy; permission of instructor
**LC89F/S** Seminar in Philosophy
*Prerequisite:* Two B-level half-courses in Philosophy; permission of instructor

*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 one another. 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 electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions among 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 studies both of mathematics and of the techniques that are needed in the performance of accurate experiments.
Students intending to study physics in depth should select their courses in accordance with the requirements of either the Specialist or Major Programme in Physics. Students whose interests lie in the Life Sciences may choose the pair of courses PHYA03 and PHYB13 which offer a survey of physics with many applications in the Life Sciences and medical physics. PHYB03 along with the laboratory course PHYB08H offers an introduction to electronics and is also available to students outside the Physics Programmes.
The listed pre-and corequisites imply others not explicitly listed: details are available from the Supervisor and the Registrar's Office.

**PHLB88S** Contemporary Philosophic Issues: Topics in Science
A study of such issues in the Philosophy of Science (namely natural science) as those concerning the concept of explanation, theory structure and confirmation as discussed by the positivists and more recent writers.

Students interested in physics should also refer to:

| | |
|---|---|
| NSCA01Y | Introduction to Natural Science: Physical Science |
| JPAC10Y | Relativity and Cosmology |
| JPMC42S | Advanced Classical Mechanics |

**Specialist Programme in Physics**
*Supervisor:* A.E. Jacobs
Students must complete thirteen full-course equivalents in Physics and Mathematics, as specified below. An optional Mathematics sequence more suitable for students with interest in mathematics and physics or theoretical physics is specified in parentheses. It is essential that students choose the appropriate set of Mathematics courses from the beginning, since transfers between the sets are severely restricted.

It is recommended that all students take MATA40F/45S and at least one half-course in computer science.

*First year:*

| | |
|---|---|
| PHYA02Y | Principles of Physics |
| or | |
| (PHYA03Y | Physics for Life Sciences I) |
| MATA26Y | Calculus |
| or | |
| (MATA55Y | Calculus with Analysis) |

*Second year:*

| | |
|---|---|
| PHYB01S | Electricity and Magnetism I |
| PHYB03F | Introductory Electronics |
| PHYB04F | Waves |
| PHYB08H | Intermediate Physics Laboratory |
| PHYB09S | Thermodynamics |
| PHYB17S | Introduction to Quantum Physics I |
| MATB41F | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |

or
(MATB50F, B55S Analysis I, II)

*Third year:*

| | |
|---|---|
| PHYC01F | Quantum Physics II |
| PHYC03Y | Electricity and Magnetism II |
| PHYC05H | Advanced Physics Laboratory |
| PHYC06F | Statistical Physics |
| JPMC42S | Advanced Classical Mechanics |
| MATC51F | Differential Equations I |
| MATC60F | Complex Analysis I |

*Fourth year:*
three full-course equivalents from:

| | |
|---|---|
| PHYB18F | Special Relativity |
| JPAC10Y | Relativity and Cosmology |
| JPA300Y | Physics and Archeology |
| PHY215H | Geophysics |
| PHY334H | Introduction to Condensed Matter Physics |
| PHY335H | Introduction to Nuclear Physics |
| PHY337H | Elementary Particle Physics |
| PHY339H | Electronics |
| PHY344H | Elasticity and Fluid Mechanics |
| PHY345H | The Physics of Diagnostic and Therapeutic Radiology |
| PHY425Y | Advanced Quantum Physics Laboratory |
| PHY426H | Advanced Quantum Physics Laboratory |

NOTE: Students who are interested in graduate studies in physics should consult with the Supervisor, preferably at the beginning of the third year, about the advisability of including one or more 400-series St. George courses in their programme.

**Major Programme in Physics**
*Supervisor:* A.E. Jacobs
Students must complete eight full-course equivalents in Physics and Mathematics, as specified below. The optional Mathematics courses listed in parentheses are more suitable for students with interests in mathematics and physics or theoretical physics.

It is recommended that all students take at least one half-course in computer science.

*First year:*

| | |
|---|---|
| PHYA02Y | Principles of Physics |
| or | |
| (PHYA03Y | Physics for Life Sciences I) |
| MATA26Y | Calculus |
| or | |
| (MATA55Y | Calculus with Analysis) |

*Second year:*

| | |
|---|---|
| PHYB01S | Electricity and Magnetism I |
| PHYB03F | Introductory Electronics |
| MATB41F | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |

or
(MATB50F, B55S Analysis I, II)

| | |
|---|---|
| PHYB04F | Waves |
| PHYB17S | Introduction to Quantum Physics I |
| PHYB08H | Intermediate Physics Laboratory |

*Third yea*

| | |
|---|---|
| PHYC01 | Physics II |
| MATC5 | al Equations I |
| One an | ional full-course equiva- |
| ents fr | 18F, C03Y, C05H, C06F, |
| JPMC | |

**PHYA** Principles of Physics
This course with its associated laboratory, offers a survey of the principles of physics. It is intended for those whose interests lie primarily in the Physical Sciences. 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, and electricity and magnetism.

The course structure is two hours of lectures (with discussion and demonstrations), one hour of tutorials per week, and three hours of laboratory every second week.
Exclusion: PHYA03 (PHYA0I)
Corequisite: MATA22 or MATA26 or MATA27 or MATA55
Session: Winter Day

**PHYA03Y** Physics for the Life Sciences I
Oscillations and waves; sound, hearing, echo location, and ultrasound; optics of vision; mechanics with applications to animal size and motion; heat and energy with special attention to heat balance in animals; atomic, molecular and nuclear physics.
Exclusion: PHYA02 (PHYA01)
Corequisite: MATA22 or MATA26 or MATA27 or MATA55
Session: Winter Day

**PHYB01S** Electricity and Magnetism I
Coulomb's law, electric fields, Gauss' law, electric potential, capacitance, dielectrics, magnetic forces and fields, inductance, magnetization, Maxwell's equations and electromagnetic waves.
Exclusion: PHYB13
Prerequisite: PHYA02 or PHYA03 (or PHYA01) and MATB41
Other recommended courses: PHYB03; PHYB08; MATB42 or MATB55
Session: Winter Day

**PHYB03F** Introductory Electronics
Circuit elements including diodes and transistors; fundamental circuits of rectifiers and amplifiers; linear circuit theory and simple filters.
Prerequisite: PHYA02 or PHYA03 (or PHYA01)
Session: Winter Day

**PHYB04F** Waves
Topics discussed include wave equations, superposition of waves, emission and absorption of waves, impedance, polarization, interference, and diffraction. Applications are made to sound waves, radio waves, light waves, surface water waves and waves on a string.
Prerequisite: PHYA02 or PHYA03 (or PHYA01); MATA26 or MATA55
Session: Winter Day

**PHYB08H** Intermediate Physics Laboratory
Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01, PHYB03 and PHYB13). Limited enrolment: 20.

A six-hour laboratory period once every 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 thoroughly. 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.
Prerequisite: PHYA02 or PHYA03 (or PHYA0I)
Corequisite: PHYB03 or PHYB13
Session: Winter Day

**PHYB09S** Thermodynamics
General principles of classical thermodynamics including the first, second and third laws and applications. Lectures are the same as those for the spring term half of CHMB03Y; problems oriented towards applications in physics will be provided.
Exclusion: CHMB03
Prerequisite: PHYA02 or PHYA03 (or PHYA01); MATB41 or MATB50
Corequisite: MATB42
Session: Winter Day

**PHYB13Y** Physics for the Life Sciences II
Electrical and magnetic phenomena; electromagnetic waves; conduction of electrical impulses by electronic devices, cables and nervous systems; interactions between EM waves and biological material; physical optics; macros-

02Y and PHYA03Y have been combined to form a single course with the following
iculars:

03Y Physics for the Physical and Life Sciences

A survey of the principles of physics with application to both the Physical and Life Sciences. Topics include motion of individual particles and of complex bodies on a scale from molecules to animals, vibrations and waves, sound, light, heat and thermodynamics, and kinetic theory. The subjects of relativity, nuclear physics, and quantum mechanics are also introduced.

There are two lectures (with discussion and demonstrations) and one tutorial each week, and a three-hour laboratory every second week.

Exclusion: (PHYA01) (PHYA02)
Corequisite: MATA22 or MATA26 or MATA27 or MATA55

Session: Winter Day

copic phenomena; statistical aspects of physics as applied to biological systems.
Exclusion: PHYB01
Prerequisite: PHYA02 or PHYA03 (or PHYA01); MATA22 or MATA26 or MATA27 or MATA55
Session: Winter Day

**PHYB17S Introduction to Quantum Physics I**
Experimental evidence of the need for quantum physics (photoelectric effect, atomic spectra, matter waves, blackbody radiation). Wave packets and the Schroedinger equation. Energy quantization, tunnelling, the harmonic oscillator. Quantization of angular momentum and spin.
Prerequisite: PHYB04; MATB41 or MATB50
Session: Winter Day

**PHYB18F Special Relativity**
Foundations of relativity theory. Lorentz transformations. Relativistic kinematics and optics. Space-time four-vectors, relativistic particle mechanics.
Prerequisite: PHYA02 or PHYA03 (or PHYA01)
Session: Winter Day

**PHYC01F Quantum Physics II**
Hamiltonian operator and Schroedinger's equation. Angular momentum. The harmonic oscillator. Central forces with emphasis on the hydrogen atom. Electron spin.
Prerequisite: PHYB01 or PHYB13; PHYB17; (MATB41 and MATB42) or (MATB50 and MATB55)
Session: Winter Day

**PHYC03Y Electricity and Magnetism II**
Electrostatic fields in vacuum and in dielectric materials; multipole expansion, polarization, polarization current density, susceptibility, forces on conductors, forces on dielectrics 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. Magnetostatic fields in vacuum and in materials; induction, inductance, 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); Poynting vector. Reflection and refraction of electromagnetic waves; Snell's law, Fresnel's equations, Brewster angle, total internal reflection, etc. Wave guides, TE, TM and TEM waves. Radiation of electromagnetic waves; antennae. Applications of theory to practical problems is emphasized.
The bibliography is (1) *Electromagnetic Fields and Waves* by P. Lorrain and D. Corson (2nd edition); (2) *Foundations of Electromagnetic Theory* by J.R. Reitz and F.J. Milford; (3) *Electromagnetic Fields and Interactions*, Volume I by Richard Becker; (4) *Classical Electrodynamics* by J.D. Jackson.
Prerequisite: PHYB01; PHYB04; MATB41 or MATB50
Corequisite: MATC51
Other recommended course: PHYB18
Session: Winter Day

**PHYC05H Advanced Physics Laboratory**
A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in physics. Limited enrolment: 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 structure is one six-hour laboratory period every second week. A single experiment may extend over more than one period.
Prerequisite: PHYB08 and permission of instructor
Corequisite: PHYC01
Session: Winter Day

**PHYC06S Statistical Physics**
Studies of entropy, thermodynamics and statistical mechanical ensembles, with applications including the kinetic theory of gases, paramagnetism, the specific heats of gases, isotope separation and phase transitions.
Prerequisite: PHYB17
Session: Winter Day

**JPMC42S Advanced Classical Mechanics**
Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.
Prerequisite: PHYA02 or PHYA03 (or PHYA01); MATC51
Session: Winter Day

**Courses Not Offered in 1981-82**

**JPAC10Y Relativity and Cosmology**
*Prerequisite:* PHYB01; JPMC42, PHYB18 would be desirable.

# olitical Science

*ssistant Chairman:* E.G. Andrew
olitical science consists of a variety of proaches to the study of politics. Politics osely refers to the process of trying to resolve onflicting interests and points of view in the ublic realm. One might say the object of Politi- al Science is the state as that of economics is e economy and that of sociology is society. But e discipline includes not only the study of poli- ies and arrangements created as a means to reclude violent resolution of conflict at the level f the nation state but also the institutional and nformal means to enhance a group's power (that , their ability to have their views and interests mplemented) from the level of the municipality the international realm.
Political science is divided into the following elds: Canadian government, comparative overnment (subdivided into the politics of ndustrialized and non-industrialized countries), ublic administration, international relations, olitical behaviour and political theory. In the tudy of *Canadian Government* students will ecome familiar with constitutional arrange- nents and policies at various levels of govern- nent in Canada. *Comparative Government*, a omparison of practices and policies of a wide ariety of other nations, will broaden the stu- ent's awareness of foreign political systems nd further facilitate an understanding of Cana- ian political culture. *Public administration* deals ith the institutions or organizational structures hrough which public policies are implemented. *nternational relations* is devoted to the analysis of e foreign policy of various nation states and of e relations obtaining amongst nation states. *olitical behavior* adopts a quantitative approach political questions and is differentiated from her divisions of political science in terms of its ethod rather than its subject matter. *Political heory* explores the reasons advanced for various olitical doctrines and policies; that is, it ttempts to clarify the place of politics in relation varying conceptions of the "quality of life".
Courses may be taken in varying sequences nd combinations, leading to a Specialist Pro- ramme for those completing an approved Pro- ramme of ten full-course equivalents, or to a ajor Programme for the completion of a more mited sequence of courses.

**pecialist Programme in Political Science**
*upervisor:* S. Solomon
tudents who intend to pursue a Specialist rogramme in Political Science should, as early s possible, draw up a preliminary programme of study in consultation with a member of the Political Science staff. An orientation meeting will be scheduled in the Fall to help familiarize students with the aims of the Political Science Programmes as well as to introduce faculty responsible for teaching, and career and graduate study guidance. The recommended sequence of courses begins with an introductory course at the A level. Students who wish to pursue advanced courses in Canadian Government should also include POLB50 early in their Programme.
Students must complete ten full-course equivalents in Political Science approved by the Supervisor and including the following:

**1** POLA01Y Introduction to Political Studies
**2** Two courses in political theory from: POLA02Y, POLB70-71Y, POLC70Y
**3** POLB50Y Canadian Government and Politics
**4** One course from each of any three of
*A* Public Administration: POLB60-B64, POLC60-C64
*B* Political Behaviour: POLB65-B69, POLC65-C69
*C* International Relations: POLB80-B84, POLC80-C84
*D* Comparative Politics, Industrial Countries: POLB85-B90, POLC85-C90
*E* Comparative Politics, Developing Countries: POLB91-B99, POLC91-C97

Additional courses in Canadian Government include POLB51-54 and POLC50-51, POLC71, and other courses which overlap with public administration, political behaviour, international relations and comparative politics of industrial countries. Students in the Specialist Programme may not take more than fourteen full-course equivalents in Political Science. In selecting courses from other disciplines they should consult with the Supervisor or with a member of the Political Science staff.

**Major Programme in Political Science**
*Supervisor:* S. Solomon
Students must complete at least six full- course equivalents in Political Science including:

**1** POLA01Y Introduction to Political Studies
**2** POLB50Y Canadian Government and Politics
**3** A course in political theory (POLA02Y, POLB70Y or B71Y)
**4** A full-course equivalent in each of at least two of
*A* Public Administration: POLB60-64, POLC60-64

*B* Political Behaviour: POLB65-69, POLC65-69
*C* International Relations: POLB80-84, POLC80-84
*D* Comparative Politics, Industrial Countries: POLB85-90, POLC85-90
*E* Comparative Politics, Developing Countries: POLB91-99, POLC91-97

**Specialist Programme in Economics and Political Science**
(see under Economics)

**POLA01Y Introduction to Political Studies**
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
*S. Solomon, T.J. Colton*

**POLB50Y Canadian Government and Politics**
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.
For preliminary reading students are recommended to read T.A. Hockin, *Government in Canada*.
Exclusion: (POLB01; POLA01 prior to 1978-79)
Session: Winter Day, Summer Evening
*J. Esberey*

**POLB51S Government and Politics in Ontario**
Political structures and processes in Ontario: Cabinet government; the interaction of Cabinet, Legislature, and public service; political parties and the party system; provincial-municipal relations.
The course will combine lecture and discussion groups.
Exclusion: (POLB37)
Prerequisite: POLB50 (or POLB01)
Session: Winter Day
*K. Bryden*

**POLB53Y Public Policies in Canada**
A study of the patterns of growth in federal and provincial policies for economic progress, social order, and human development; of the relationship between changing public policies and Canadian political development; and of the contributions made by instruments of government toward the achievement of basic political values.
Exclusion: (POLB35)
Session: Winter Day
*R. Manzer*

**POLB54S Intergovernmental Relations**
An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.
Exclusion: (POLB19)
Prerequisite: POLA01
Session: Winter Day

**POLB60Y Public Administration**
An examination of the role of the bureaucracy in the Canadian and other political systems, focussing on the organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and ways and means of controlling it.
Exclusion: (POLB05)
Session: Winter Evening
*J. Galimberti*

**POLB65Y Political Behaviour**
An introduction to the analysis of political behaviour. This course will examine the empirical and theoretical efforts of political scientists to discern the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology. Lectures and discussion.
Exclusion: (POLB30)
Session: Winter Evening
*V.C. Falkenheim*

**POLB66Y Psychology and Politics**
An introductory workshop in applied psychology. This course explores some of the areas in which our understanding of the political process has benefitted from the application of psychological knowledge. The lecture/discussion period will be concerned with a general overview of the literature in the field and students

e encouraged to undertake further detailed esearch in areas where they have the necessary ychological or political science background. uring the fall term the focus will be on conflict political systems and political corruption. In e spring term the focus will be on human ature and politics and the influence of personal- factors.
xclusion: (POLB24)
ession: Winter Day
*. Esberey*

**OLB70Y** *Political Thought from Plato to* **ocke**
discussion of the political thought of Plato, ristotle, Augustine, Machiavelli, Hobbes and ocke.
Students will be expected to read Plato's *epublic*, Aristotle's *Politics*, Machiavelli's *The rince*, Hobbes' *Leviathan* (Parts one and two) nd Locke's *Second Treatise of Government*. The olitical writings of St. Augustine and St. homas Aquinas will also be studied.
The teaching method will be two hours of ctures and one tutorial hour per week.
xclusion: (POLB06)
*ession: Winter Day*
*. Andrew*

**OLB71Y Political Thought of the Eighteenth nd Nineteenth Centuries**
study of the major political philosophers of the ighteenth and nineteenth centuries.
Students will be expected to study selected ritings of Rousseau, Montesquieu, Burke, *ocqueville, J.S. Mill and Marx.*
The teaching method will be two hours of ecture.
xclusion: (POLB03)
ession: Winter Day, Summer Day
*. Colman*

**OLB80Y International Relations**
study of the nature of the international system; e factors that motivate foreign policies; and the nstitutions for the conduct of international rela- ons. The purpose of the course is to help the tudent develop intellectual tools with which to nalyse politics at the international level.
*xclusion: (POLB10)*
ession: Winter Day
*. Rubinoff*

**POLB81F Canadian Foreign Policy**
An examination of the most important elements within Canada's foreign policy since 1945 and a consideration of the issues and the influences which have determined that policy.
This is primarily a lecture course.
Exclusion: (POLB40)
*Prerequisite: POLB50 (or POLB01) or (POLB10)*
Session: Winter Day
*C. Pratt*

**POLB82Y American Foreign Policy**
An examination of the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world.
Exclusion: (POLB42)
Prerequisite: POLB80 (POLB10) or POLB87 (POLB26)
*Session: Winter Day*
*A. Rubinoff*

**POLB86Y Soviet Government and Politics**
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.
Exclusion: (POLB23)
Session: Winter Evening
*T.J. Colton*

**POLB87Y U.S. Government and Politics**
A general examination of national institutions and political processes in the United States with special emphasis on the role of presidential leadership in policy making.
Specific topics include: the "constitution", the social basis of political conflict, political participation, the links between state and society, the Washington Community and patterns of public policy.
Teaching method will consist of lectures and discussion.
Exclusion: (POLB26)
Session: Winter Day
*A. Rubinoff*

Cancelled

**POLB88Y Urban Politics**
An examination of the politics and government in urban areas: the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision-making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.
Exclusion: (POLB36)
Session: Winter Day

**POLB91Y Politics of the Third World**
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 corporation, 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 Curtain: Choices for the Third World* (New York: Columbia Univ. Press, 1976).
Exclusion: (POLB38)
Session: Winter Day
*K.R.J. Sandbrook*

**POLB93Y The Chinese Political System**
An analysis of Chinese political institutions, behaviour and thought, with primary emphasis on the contemporary political system since 1949.
Exclusion: (POLB17)
Session: Winter Day
*V.C. Falkenheim*

**POLC50Y Canadian Problems in Comparative Perspectives**
An analysis of some of the major issues in contemporary Canadian politics in terms of the way similar problems are handled in other western developed nations.
*Exclusion: (POLC15)*
Prerequisite: One of: POLB50 (or POLB01), (POLA03), POLB87 (or POLB26), (POLB34).
Session: Winter Evening
*J. Esberey*

**POLC60F Administrative Politics**
Analysis of politics in the administrative processes of democratic states — the conflicting interests, ideas and values of governmental agencies; differentials in their resources; and the effects of variations in political institutions and practices--in Canada and the United States but with some reference to European experience.
Prerequisite: POLB60 (or POLB05)
Session: Winter Day
*R. Manzer*

**POLC61S** *Policy Development*
Analysis of the process of formulating, implementing and evaluating public policy in a modern democratic state with cases based primarily on contemporary policies for economic stabilization, public schooling and criminal justice in Canada.
Prerequisite: POLB53 or POLB60 (or POLB05 or POLB35)
Session: Winter Day
*R. Manzer*

**POLC70Y Twentieth Century Political Thought**
A study of some of the major developments in political thought in the twentieth century.

The course examines the evolution of democratic theory with particular attention to the impact on that theory of the sociopolitical crisis (the failure of democracies and rise of fascism in Europe) and the growth of new approaches to social inquiry (quantitative research, behavioural studies).
Exclusion: (POLB29)
Session: Winter Day
*S. Solomon*

**POLC71Y Canadian Political Ideas**
An examination of the ideas informing Canadian political movements and parties from Confederation to the present.

The seminar will require two class presentations during the year.
Prerequisite: One of POLB50, POLB70, POLB71, HISB04
Session: Winter Day
*E. Andrew*

**POLC98F Supervised Reading**
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: (POLC04)
Prerequisite: One B-level course in Political Science; permission of instructor.
Session: Winter Day
*Staff*

**POLC99S Supervised Reading**
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: (POLC05)
Prerequisite: One B-level course in Political Science; permission of instructor,
Session: Winter Day
*Staff*

**Courses Not Offered in 1981-82**

**POLA02Y** Introduction to Political Theory

**POLB52F** Canadian Constitutional Law
*Exclusion:* (POLB32)
*Prerequisite:* POLB50 (or POLB01)

**POLB85Y** Comparative Politics of Industrial Societies
*Exclusion:* (POLB18)
*Prerequisite:* One course in Political Science or permission of instructor.

**POLB89Y** Politics and Society in Contemporary Japan
*Exclusion:* (POLB39)

**POLB92Y** Politics and Society in Independent Africa

**POLC51S** Topics in Canadian Government
*Exclusion:* (POLB37)
*Prerequisite:* POLB50 (or POLB01)

**POLC62F** Organized Interests and the State
*Prerequisite:* POLB60 (or POLB05) or POLB53 (or POLB35)

**POLC65F** Topics in Political Leadership
*Exclusion:* (POLC12)
*Prerequisite* POLB66: (or POLB24) or POLB50 (or POLB01) or POLB85 (or POLB18) or POLB87 ( or POLB26) or POLC50 ( or POLC15)

**POLC81S** Psychology of International Relations
*Exclusion:* (POLC11)
*Prerequisite:* (POLB24) or (POLB10)

**POLC85Y** Comparative Communism
*Exclusion:* (POLC06)
*Prerequisite:* One B-level course in Political Science.

**POLC86S** Intergovernmental Relations in the European Economic Community
*Exclusion:* (POLB34)

**POLC91F** Urbanization and Underdevelopment
*Exclusion:* (POLC13)
*Prerequisite:* A B-level course in Social Science. A prior course on development or some part of the Third World is advisable but not mandatory.

**POLC92S** Multinational Corporations and Underdevelopment
*Exclusion:* (POLC14)
*Prerequisite:* One Social Science course dealing with the Third World or development.

# Psychology

*Associate Chairman:* B. Forrin

Psychology is that branch of science which seeks to understand behaviour and experience. Why humans and infrahumans 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 behaviour.

The areas of interest which psychology encompasses include: how organisms perceive their environments; how they learn and adapt; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behaviour; how their behaviour relates to physiological functions; and how individuals differ from one another. The course offerings in Psychology consider how psychologists pursue enquiries into these areas and what knowledge they have gained.

The Specialist Programme in Psychology includes courses from the main subfields within the discipline. It has been designed both for students wishing to pursue graduate work in psychology and for students who have a general interest in this field. Students considering graduate study in Psychology should include the thesis course (PSYC98Y) in their Programme. The Major Programme is similarly designed to expose students to the main areas within Psychology and is recommended for those with less specialized interest in the field.

Students particularly interested in the relation of brain to behaviour should consider the Major and Specialist Programmes in the Neurosciences (NRS) described in this calendar.

**Specialist Programme in Psychology**

*Supervisor:* C. MacLeod

The programme requires completion of eleven full-course equivalents.

**A** Nine full-course equivalents in Psychology as follows:

1. PSYA01Y Introduction to Psychology
2. PSYB07F/S Data Analysis in Psychology
3. At least one full-course equivalent from among PSYB09F/S, PSYB11F/S, PSYB40F/S, (PSYB41F/S), PSYB52F/S, PSYB62Y. (These courses involve laboratory exercises and expose students to experimental design and methodology in psychology.)
4. At least one additional full-course equivalent from the B-level 10-, 20-, and/or 30-series. (This series represents social, developmental and personality psychology respectively.)
5. At least one additional full-course equivalent from the B-level 40-, 60-, and/or 70-series. (This series represents learning, physiological and comparative psychology.)
6. At least one additional full-course equivalent from the B-50 series. (Cognitive psychology--human learning, memory, sensation and perception.)
7. At least two full-course equivalents at the C-level. Not more than one full-course equivalent selected from C90F/S/H, C93F/S/H, and C98Y may be offered in satisfaction of this requirement. (C90 courses involve supervised study or research.)
8. One and one-half additional full-course equivalents at the B- or C- level in any area in Psychology.

**B** Two full-course equivalents, agreed upon in consultation with the Supervisor, in ANT, BIO, CSC, LIN, MAT, PHL and SOC. A list of current courses which are approved is available from the Supervisor.

**Major Programme in Psychology**

*Supervisor:* C. MacLeod

The programme requires completion of six full-course equivalents in psychology as follows:

1. PSYA01Y
2. PSYB07F/S
3. At least one half-course from among PSYB09F/S, PSYB11F/S, PSYB40F/S, PSYB52F/S, PSYB62Y. (These courses involve laboratory exercises and expose students to experimental design and methods in psychology.)
4. At least one additional half-course from the B-level 10-, 20- or 30-series. (This series represents social, developmental and personality psychology, respectively.)
5. At least one additional half-course from the B-level 40-,60- or 70-series. (This series represents learning, physiological and comparative psychology.)
6. At least one additional half-course from the B-50 series. (This series represents cognitive psychology - human learning, memory, sensation and perception.)
7. At least one full-course equivalent at the C-level. (This full-course equivalent cannot be composed entirely of courses selected from the C-90 series.)
8. One and one-half additional full-course equivalents at the B- or C- level in any area of Psychology.

**PSYA01Y Introduction to Psychology**

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Two three-hour lectures per week. Lectures include discussion, demonstrations, films and laboratory exercises (TBA). One comprehensive text and one book of relevant readings (the titles have not yet been selected).

Session: Summer Evening

*D. Chute, F. Klajner*

**PSYA01Y Introduction to Psychology**

The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Three lecture hours per week. In addition, students will complete four laboratory exercises in the course of the year, each requiring four hours of lab attendance on dates to be scheduled early in the session.

Session: Winter Day, Winter Evening

*C. MacLeod; The Faculty*

**PSYB07F/S Data Analysis in Psychology**

Data reduction techniques: frequency distributions, measures of central tendency and variability, linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, and t distributions.

Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behaviour of the human species is explained by observing the behaviour of individual persons. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed. (Students concerned about the adequacy of their background in mathematics should consult H. M. Walker's *Mathematics Essential for Elementary Statistics*, available in the College library, for a detailed survey of the skills required.) Four hours of lecture (with in-class problem solving) and one hour of tutorial per week. This is a required course in both the Specialist and the Major Programmes in Psychology.

Exclusion: ANTB43, ECOB11, GGRB02, STAB57 (MATB57), SOCB06

Session: Winter Day(F), Winter Evening (S)

*B. Forrin, T.B.A.*

**PSYB08S Experimental Design in Psychology**

The analysis of variance as a research tool and the rationale and mechanics of its application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: homogeneity of variance, multiple comparisons, trend analysis, the analysis of covariance.

The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology. Three hours of lecture (with in-class problem solving) and one hour of tutorial per week.

Exclusion: (MATC52)

Prerequisite: PSYB07 or STAB57 (MATB57)

Session: Winter Day

*B. Forrin*

**PSYB09S General Experimental Psychology**

The experimental technique of psychology as applied to problems in learning, motivation and perception in infrahuman and human organisms. This course emphasizes research methods of psychology and is intended to provide a broad foundation of basic information and

research techniques required in specialized laboratory courses and advanced courses.

The course provides an introduction to methodological design problems in psychology in an empirical rather than statistical framework; i.e., how did you find out, rather than what did you find? Other recommended courses: prior or concurrent enrolment in PSYB07. Normal lectures will be given, but a "workshop" context will be employed. The course will be unitized, and following each unit a practice (non-graded) exam will be given with answers fully analyzed and "graded" by instructor and/or student. Practice exams may be retaken as desired. Handouts will be given at the beginning of each laboratory and the student will be expected to answer questions posed.
Prerequisite: PSYA01 or BIOA03
Session: Summer Day, Winter Day
*G.B. Biederman*

**PSYB10F/S Introduction to Social Psychology**
Social influence (conformity and obedience), prejudice, sexism, attitude change, group behaviour (crowding, crowd behaviour, panics), aggression, cooperation and competition, nonverbal communication, person perception, attraction and emotions.

Social Psychology focuses on the problem of how human behaviour is influenced by others. The course is designed to demonstrate some phenomena of social behavior and to present theories and research evidence relating to these phenomena. Teaching method: lectures and tutorials.
Prerequisite: PSYA01
Session: Winter Evening (F), Winter Day (S)
*J. Bassili*

**PSYB11F Social Psychology Laboratory**
An introduction to conceptual and practical issues concerning research in social psychology, by gaining experience with several different types of research.

This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). Limited enrolment: 25. Teaching method will be lecture-discussion and laboratory work.
Prerequisite: PSYB07; PSYB10
Session: Winter Day
*K. Dion*

**PSYB12S Advanced Social Psychology**
Paradigm change in social psychology; the role of descriptive and experimental methodologies; attribution theory; emotion theory; subjective and objective judgmental processes; judgment of emotional expressions, individual differences in social psychological processes.

Beginning with a discussion of appropriate methodologies for the investigation of social phenomena, the course considers the dominant viewpoints in contemporary social psychology. The discussion then turns to the specific and yet related problems of attribution theory, internal and external control, coping with stress, subjective and objective judgments and the judgment of emotional states. The objectives are to attempt a critical analysis of developments in social psychology through an examination of the theories, methods and results of recent research.
Prerequisite: PSYB10
Session: Winter Evening
*G. Cupchik*

**PSYB20F Developmental Psychology**
Developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social developmental perspectives.

This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g. Piaget's cognitive theory, social learning view. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child; e.g. social attachment, intelligence, sex-roles and achievement. The teaching method will be two lecture hours plus one tutorial per week. The purpose of the third hour is to provide an opportunity for students to discuss lecture and reading material in smaller class sections.
Prerequisite: PSYA01
Session: Summer Evening, Winter Day
*M. Tierney*

**PSYB30F Personality**
An introduction to some of the influential theories of personality and the research which they have guided. Specific theories covered vary from year to year. A typical selection might include the work of Skinner, Lewin, Freud, Jung, Laing and Ram Dass.

The aim of this course is to acquaint the student with the diversity of theoretical assumptions and research methods with which basic questions about human nature have been approached. Readings are from primary sources.
Prerequisite: PSYA01
Session: Winter Day
*A. Kukla*

**PSYB32F/S Abnormal Psychology**
A critical examination of psychoanalytic, S-R, cognitive-interpersonal, biological and phenomenological views concerning the cause and treatment of abnormal behaviour. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints in hypothesis, model and theory development, including genetic, physiological, stress, medical-psychiatric, psychoanalytic, social-learning, and sociological; classification systems, including problems in their reliability and validity; description of a variety of neuroses, psychoses, and other behavioural disorders of adults and children, including cognitive, emotional, sensory-perceptual, psychomotor, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetics, and epidemiological research; management, control, and modification of abnormal behaviour, within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.
Prerequisite: PSYA01
Session: Summer Evening, Winter Evening
*J. Pauker*

**PSYB33S The Measurement of Psychological Attributes**
An examination of methodological principles underlying the construction of psychological tests, the interpretation of the scores they yield, and the assessment of their value, illustrated by reference to a variety of psychometric instruments. Attention is also devoted to certain substantive issues associated with the measurement of psychological attributes, e.g. the nature of "intelligence".

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. The course is intended to foster an understanding of how psychologists seek to derive meaning from measurement; it does not take as a significant objective the development of practical skills in test administration. For a detailed survey of topics covered, see Anastasi's *Psychological Testing* (4th ed.) or Cronbach's *Essentials of Psychological Testing (3rd ed.)*. Three hours of lectures per week.
Prerequisite: PSYB07 or STAB57 (MATB57); one additional half-course in Psychology at the B-level
Session: Winter Day
*B. Forrin*

**PSYB40F Learning**
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to problems and techniques in the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.
The course provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation.
Prerequisite: PSYA01; PSYB09; PSYB07 or STAB57 (MATB57)
Session: Winter Day
*G.B. Biederman*

**PSYB45F Behaviour Modification: Origins and Applications**
A survey of attempts to understand and regulate human behavior in non-laboratory settings founded on principles derived from the learning and conditioning laboratory. 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, biofeedback, punishment and its side effects; cognition and behaviour therapy; attribution, placebo effects, cognitive therapy, rational-emotive therapy, thought stopping, problem-solving, modeling; establishment of new behaviors, fear extinction, assertive training; treatment of obesity, treatment of depression; systematic desensitization; treatment of anxiety; aversive counterconditioning; treatment of alcohol and drug abuse.
Prerequisite: PSYA01
Session: Winter Day

**PSYB50F Sensation and Perception**
An investigation into the processes by which we gain information about the world around us, and the laws which govern the way in which that information is used to construct our perceptions.

Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity; colour and 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.
Prerequisite: PSYA01
Session: Winter Evening
*J. Foley*

**PSYB51F Perceiving and Knowing**
Theories of representation and research studies by psychologists and educators. Specific topics include displays for the perceptually handicapped, projection, outline representation, machine decoding of pictures, trompe l'oeil, ambiguous pictures, impossible objects, metaphor in pictures, perception by special groups in New Guinea, Africa, India. Cave art. Illusory effects.

In obtaining information about our environment we rely on first-hand contact with real things, and also on second-hand contact, with representations - we have to distinguish between reality and appearance, objects and images, the pictured and pictures. The course examines such distinctions using data from children and adults, from different cultures, from different eras, and from different species. Demonstrations and exercises will form part of the course work, but prior knowledge of laboratory procedures is not required. The teaching method will consist of lectures and exercises.
Prerequisite: A B-level course in Psychology (or PSYA01 and permission of instructor); PSYB50, PSYB52, FARA70, PHLB03 are recommended
Session: Winter Day
*J.M. Kennedy*

**PSYB52S Human Information Processing**
An introduction to one approach to understanding human behaviour - an approach whereby the behaviour 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.

Recently psychologists who study human per- [illegible] 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, cognition, with special emphasis on quantitative studies. Selected laboratory exercises. This course meets three hours per week. Every other week there is only one hour of lecture and a two-hour lab, giving a total of six labs per session.
Prerequisite: PSYB50, PSYB07 or STAB57; PSYB09
Session: Winter ~~Day~~ Evening

**JLPB55F Psycholinguistics**
Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogenesis will be discussed. There will be lectures, films and discussion.
Prerequisite: LINA01
Session: Winter Day
*E. Bialystok*

**PSYB57S Human Learning and Memory**
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. Extra-class sessions can be arranged to pursue issues of less general interest.
Prerequisite: PSYA01; PSYB09 or permission of instructor.
Session: Summer Evening, Winter Day

**PSYB60F Brain Mechanisms and Behaviour: I**
The relationship between behaviour and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception. Students with prior credit for PSYB65 may take PSYB60 for credit.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behaviour of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement. The teaching method is three hours lecture and one hour lab or tutorial per week.
Prerequisite: PSYA01; PSYB65 is recommended for students with no Biology background.
Session: Winter Day
*N.W. Milgram*

**PSYB61S Brain Mechanisms and Behaviour: II Physiology of Motivation and Learning**
A continuation of PSYB60. Topics covered under the category of Motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.

The course is designed to provide students with an understanding of the physiological substrates underlying behaviour. Discussions will centre 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 behaviour, and reinforcement will be discussed from neurological and neuropharmacological perspectives. Neurophysiological basis of learning and memory will be dealt with and then integrated with motivational models to provide a basis for understanding brain function in behaviour. Three hours of lecture per week.
Prerequisite: PSYB60
Session: Winter Day
*D. Chute*

**PSYB62Y Research in Physiological Psychology**
Instruction in a variety of techniques used in investigations of nervous system function. The course is intended for students pursuing a Specialist Programme in either Psychology or Biology who are particulary interested in the neurosciences.

The course starts out with a dissection of a sheep brain. Subsequently, the procedures covered include: (i) histology (preparing, cutting and staining neural tissue); (ii) lesioning specific regions of the central nervous system; (iii) chemical stimulation of the brain; (iv) electrical stimulation of the brain; (v) programming relay circuitry; (vi) electrophysiological recording techniques. The teaching method is two hours of lectures a week, three hours of scheduled laboratory work; in addition, students might spend a few further hours of their free time working in the student laboratory. The course involves a series of five laboratory projects.
Prerequisite: PSYA01; PSYB07 or STAB57 (MATB57); PSYB09 or a Biology course; permission of instructor
Corequisite: PSYB60; PSYB61 and PSYB08 are recommended
Session: Winter Day
*N.W. Milgram*

**PSYB65F/S Biological Foundations of Behaviour**
An examination of the structural and physiological basis of behaviour. The course is geared towards non-biologically oriented students. Students with prior credit for PSYB60 may not take PSYB65 for credit.

The structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behaviour. Once these basic fundamentals are covered the course then focuses on the following: disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, mental deficiency and speech disorders); drugs of use and abuse (stimulants, depressants, and hallucinogens); and the biological basis for violence, schizophrenia, depression, psychosis and anxiety. The teaching method is three hours lecture weekly.
Exclusion: PSYB60
Prerequisite: PSYA01 or permission of instructor.
Session: Summer Evening, Winter Evening
*N.W. Milgram, T.B.A.*

**PSYC15F Current Topics in Social Psychology**
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 of social interaction. The teaching method is lectures and discussions.
Prerequisite: PSYB12 or PSYB10 (plus permission of instructor).
Session: Winter Day
*J. Bassili*

**PSYC20F** *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. The teaching method consists of lectures, discussions, and oral presentations by students.
Prerequisite: PSYB20
Session: Winter Day
*M. Tierney*

**PSYC22S** Socialization Processes
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 behaviours) 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.
Prerequisite: PSYB10, PSYB20
Session: Winter Day
*K. Dion*

**PSYC30S** Current Topics in Personality and Motivation
An intensive examination of selected issues and research problems in the areas of personality and motivation. Limited enrolment: 25.
The specific content will vary from year to year.
Prerequisite: PSYB30
Session: Winter Day
*A. Kukla*

**PSYC32S** Current Topics in Abnormal Psychology
An intensive look at selected current problems and issues in the study of abnormal behaviour. Limited enrolment: 30.
For 1981-82, topics will be selected from within the broad area of abnormal child psychology, and will include descriptions of child and adolescent behaviour problems, classification systems and methods, biological and socio-cultural contributors to abnormality, treatment and management approaches and follow-up studies. There will be a text, lectures, class discussion, and student presentations.
Prerequisite: PSYB20, PSYB32
Session: Winter Day
*J. Pauker*

**PSYC41F** Research in Operant Conditioning
Seminar and supervised research in recent developments in operant conditioning. Limited enrolment: 20.
Prerequisite: PSYB09, PSYB40 (or PSYB41)
Session: Winter Day
*G.B. Biederman*

**PSYC53F** Current Topics in Human Information Processing
An intensive examination of selected issues and research problems in human information processing.
This course will focus on high-level cognitive processes, including concept formation and identification, decision making, and problem solving. Using both average performance data and individual differences data, models of the component processes in complex thought will be constructed. The major goal is to understand the elements of intelligent information processing. The teaching method is lecture-discussion.
Prerequisite: A PSYB50-series course other than PSYB50; permission of instructor.
Session: Winter Evening
*C.M. MacLeod*

**PSYC54S** Art and the Psychology of Perception
Recent theories of perception and representation as applied to art. Theorists to be included are J.J. Gibson, E.H. Gombrich, R. Arnheim, D.E. Berlyne. Other approaches include an information- processing or constructionist approach as favoured by J.E. Hochberg and R.L. Gregory. Commentators from philosophy include N. Goodman, J. Margolis, M. Wartofsky. The kinds of art to be considered include representational art and op art. Limited enrolment: 20.
The teaching method will be 50% lectures by the instructor, 50% short presentations by students. The bibliography will include at least one reading from each of the major theorists and theoretical approaches being considered - one from ecological optics (Gibson), one from cogni-

-perceptual theory (Gombrich), one from stalt-theorie (Arnheim), one from experimen- aesthetics (Berlyne) and two from con- ctionist and information-processing proaches. Essays by the instructor examining ch of the above will be discussed. In addition, Philosophical Monographs collection of says edited by John Fisher "Perceiving Art- rks" (1980) and the M. Hagen (Ed.) 2 volume "The Psychology of Representational Art" ademic Press, forthcoming will provide a lection of readings.
erequisite: PSYB51
ssion: Winter Day
Kennedy

YC66S Clinical Psychopharmacology
armacology of the central nervous system, armacokinetics and theoretical bio-psychia- Detailed discussion centres on the psycho- pic drugs used as anti-psychotics, anti- anics, anxiolytics, and anti-depressants. lated content areas, such as geriatric pharma- logy and pharmacological applications to clin- l neuropsychology will be introduced. The urse is designed to integrate abnormal ychology and physiological psychology con- t areas. Teaching methods include lecture, minar and practicum observation.
erequisite: PSYB60 or PSYB65 or permission instructor
ssion: Winter Day
L. Chute

YC85F/S History of Psychology
radigm change in the history of psychology; imism; Greek psychology; the modern era, scartes, Leibnitz, the English Empiricists; neteenth century developments; the emer- nce of descriptive and positivist methodolo- es; twentieth century approaches; systems ory; functionalism, structuralism, behaviour- m, phenomenology. Limited enrolment: 35.
The course examines the diverse contribu- ns of the Greek philosophers which tablished the foundation of Western thought. e course then turns to the conceptual, metho- logical and factual developments in both con- ental and English science and philosophy m the fourteenth to the nineteenth centuries. e appearance of psychology in its modern m in the second half of the nineteenth century discussed and a critical analysis is provided of various modern schools including systems theory, functionalism, structuralism, behaviorism and phenomenology.
Prerequisite: PSYA01; two B-level half-courses in Psychology
Session: Summer Evening, Winter Day
*D. Stewart, G. Cupchik*

**PSYC90F/S/H**
**PSYC93F/S/H** Supervised Study in Psychology
A reading or research project.
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 fields where these are available. The student must demonstrate that his or 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 library 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.
Prerequisite: Three full-course equivalents in Psychology; permission of instructor
Session: Winter Day, Winter Evening
*Supervision by a faculty member*

**PSYC98Y** Thesis in Psychology
This course is intended to offer to qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others and to discuss the results of their investigation.
Students will meet as a group with the coordinator as well as individually with the supervisor.
Prerequisite: Satisfactory completion of fifteen full-course equivalents in any discipline but including PSYB07; 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
*Coordinator: K. Dion*

**Courses Not Offered in 1981-82**

**PSYB56S** Man and Machines
*Prerequisite* PSYA01;: quantitative skills such as are required in PSYB07, or PSYB09 are an advantage

**PSYB70S** Comparative Psychology
*Prerequisite:* PSYA01

**PSYC40S** Current Topics in Animal Learning
*Prerequisite:* PSYB40

**PSYC52S** Structures in Psychology
*Prerequisite:* PSYB07 or STAB57 (MATB57) or PSYB09; PSYB20 or PSYB51; permission of instructor.

**PSYC56F** Computers in Psychology
*Prerequisite:* PSYB52; courses in computer programming would be useful.

**PSYC60F** Current Topics in Comparative and Physiological Psychology
*Prerequisite:* PSYB60; permission of instructor.

**PSYC80F** Philosophy and Psychology
*Prerequisite:* Three B-level half-courses in Psychology and one B-level half-course in Philosophy

**Major Programme in Quaternary Studies**
*Supervisor:* J.C. Ritchie

The Quaternary Period embraces the last two million years of Earth history. Major climatic changes which occurred during this time resulted in repeated expansion and recession of continental and montane glaciers, alternating wet and dry periods in low latitudes, marked fluctuations in sea level, development of ephemeral but often large inland seas and proglacial lakes, etc.

These dramatic changes have strongly influenced the distribution and, to an extent, the forms of plant and animal life on earth today. Among these are the Hominids whose appearance and development coincides with the Quaternary.

Detailed reconstruction of Quaternary environments - involving both the physical and biological components of the landscape - and their placement in a historical context is clearly an interdisciplinary task. Such studies bring together the Quaternary geologist, physical geographer, historical ecologist, paleoanthropologist, archaeologist and many others. In this Programme the student will develop experience in the multidisciplinary approaches used in studying the Quaternary as well as specialist expertise in one or more of the sub-disciplines.

The Programme consists of seven courses, two of which are required: QUAA03Y and QUAB02Y. Both reflect the interdisciplinary nature of Quaternary Studies and are presented by faculty from Scarborough College and occasionally from other parts of the University who are involved in Quaternary research. Of the remaining five courses required, the student is given a wide choice but is nevertheless expected to develop expertise in one (or more) of the sub-disciplines by following a sequence of A and B- or C-level courses noted below.

*A-Level*

| | |
|---|---|
| QUAA03Y (NSCA03) | Ice Ages and Human Ecology |
| plus at least two of: | |
| ANTA01Y | Introduction to Anthropology |
| BIOA03Y | Introductory Biology |
| GGRA05Y | Introduction to Physical Geography |
| GLGA01Y | Planet Earth: an Introduction to Geology |

*& C-Level*

| | |
|---|---|
| UAB02Y (NSCB02) | Quaternary Environments and Man |
| us at least three full-course equivalents from: | |
| NTB26Y | Introduction to Prehistoric Archaeology |
| NTB11F | Human Behaviour in the Old Stone Age |
| nd | |
| NTB12S | The Rise of Civilization |
| NTB14Y | Human Evolution |
| IOB12Y | Fundamentals of Ecology |
| BIOB39B) | Biogeography |
| IOC11Y* | Quaternary Plant Ecology |
| GGRB07Y* | Geomorphology: The Pleistocene Epoch |
| GRC25S* | Sedimentary Models |
| GGRB03Y | Climatology |

The student should note that prerequisites for ese courses are not included in the Quaternary tudies Programme.

**UAA03Y** Ice Ages and Human Ecology
thematic introduction to the interdisciplinary tudy of the "Ice Age" (Quaternary) and of uman paleoecology, involving several Quaterary specialists.

A series of lectures which emphasize research roblems of current interest, such as climatic hange, the formation of glacial ice, ice movements and their effect on the landscapes, eriglacial ecology, faunal extinctions, human rigins, the domestication of plants and animals, uman migration into the Western Hemisphere, nd earliest occupations in Ontario. The teaching method consists of one two-hour lecture per eek, and occasional fieldtrips.
Exclusion: (NSCA03)
Session: Winter Day
*J.C Ritchie (co-ordinator)*

**ourses Not Offered in 1981-82**

**UAB02Y** Quaternary Environments and Man
*Exclusion:* (NSCB02)
*Prerequisite:* QUAA03 (NSCA03) or permission of instructor



These Programmes are for students who wish to study the various cultural aspects of the period known as the Renaissance. Their nature is interdisciplinary, and they necessitate learning the methods of more than one discipline. Many of the courses (those with an asterisk) require prerequisites within the disciplines that offer them, and the student is advised to plan his Programme carefully so that he does not choose more courses with prerequisites than he can qualify for. For example a student who plans to take ITAB32F/S, ITAB33S or ITAB34F/S should note that ITAB01Y or ITAB11Y is a prerequisite to those courses, and plan his programme accordingly. The student should also note that some of the normal prerequisites can be waived for students in these Programmes. (It will be noted that courses on the St. George campus are also listed. The student, must, however, take the majority of his courses at Scarborough College - see p. 19.)

**Specialist Programme in Renaissance Studies**
*Supervisor:* E.P. Vicari

Students must complete ten full-course equivalents, two from each of the following categories:

**1** *Background*
The student must take one full-course equivalent from (a) and one from (b) and one other from either (a) or (b).

| | | |
|---|---|---|
| *a* | HISB06Y | Europe in the Middle Ages |
| | HISB13Y* | Europe in the Reformation Era, 1500-1600 |
| | HISB23Y* | Tudor and Stuart England |
| | HISC12Y* | The Renaissance in Europe, 1350-1550 |
| | HISC14Y* | The European Mentality in the Early Modern Period (1500-1700) |
| | HIS357Y | The Renaissance |
| | HIS230Y | Politics and Social Change in England, 1530-1600 |
| | HIS243H | Early Modern Europe (1540-1648) |
| | HIS303H | The Italian Renaissance |
| | HIS349Y | Renaissance and Baroque France, 1500-1600 |
| | HIS433Y* | Topics in Tudor Social History |
| | ECO303Y* | The Dynamics of European Economy, 1350-1750 |
| *b* | HUMA11Y | Greek and Roman Mythology |
| | REL106Y | Basic Christian Beliefs |
| | REL206Y | Reformation in the Sixteenth Century |
| | REL232Y | Christianity: Middle Ages and Renaissance |

| | |
|---|---|
| REL320Y | The Mythological Framework of Western Culture |
| PHLB40F | Plato and His Predecessors I |
| PHLB41S | Plato and His Predecessors II |
| PHLB42F | Aristotle I |
| PHLB43S | Aristotle II |
| PHLB44F | Philosophers of the Middle Ages I |
| PHLB45S | Philosophers of the Middle Ages II |
| PHLB46F | Philosophy of the Early Modern Age I |
| PHI105Y | Philosophy in Western Culture |
| GLL230Y | Greek and Roman Philosophy |
| PHL200Y | The Birth of Western Philosophy (Plato and Aristotle) |
| PHL268H | Political Theories: Ancient and Medieval |
| POLB70Y | Political Thought from Plato to Locke |

**2** *Fine Art, Music and Drama*
The student must take two of FARB23F, FARB32F and FARC09F, and two additional full-course equivalents from this group.

| | |
|---|---|
| FARB15F | Renaissance in Italy |
| FARB16Y | The Arts of Northern Europe, 1400-1500 |
| FARB19F | Michelangelo |
| FARC09F* | Advanced Studies in the High Renaissance I |
| MUSB04F | Music of the Renaissance |
| MUSB15F* | Music in Elizabethan England |
| MUS301H* | Early Music |
| DRAB12B | Medieval and Early Tudor Drama |
| FAH200Y | European Art from 1400-1750 |

**3** *Language and Literature*
The student must take three full-course equivalents in literature, one of which at least must be in a language other than English. In addition to the three literature courses, therefore, he may have to satisfy prerequisites in language, from those listed below.

Prerequisites in French:
FREB06Y Language Practice I
One B-level course in French, not B11F, B12S, or B14S.
Prerequisites in Italian:
ITAA01Y or A11Y or Grade 13 Italian
ITAB01Y or B11Y
Prerequisites in Spanish:
SPAA01Y or Grade 13 Spanish
SPAB01Y
SPAB03S

Courses in the literatures:

| | |
|---|---|
| ENGB09Y* | Poetry and Prose of the English Renaissance |
| ENGB10Y | Shakespeare |
| ENGB12Y* | English Drama to 1642 |
| ENGC04Y* | Studies in the Renaissance Literature |
| ENGC10F* | Problems in Later Shakespeare |
| FREC25Y* | Literature of the Renaisance |
| FRE461Y* | Baroque and Mannerism |
| ITAB31Y* | Dante and Medieval Culture |
| ITAB32F/S* | Petrarch and Boccaccio |
| ITAB33S* | Machiavelli and Renaissance Thought (Exclusion: HUMB50S) |
| ITAB34F/S* | The Renaissance Epic |
| ITAB35F/S* | Italian Sixteenth-Century Theatre |
| ITAB36F/S* | Lyric Poetry of the Renaissance |
| ITAB40F/S* | Reformation and Baroque Literature |
| HUMB21S | The Literature of the Spanish Mystics |
| HUMB33Y | World Visions from the Late Middle Ages to the Renaissance |
| HUMB50S | Machiavelli and Aspects of the Italian Renaissance (in translation) (Exclusion: ITAB33S) |
| HUMC10H* | Humanities Seminar |
| JSDB24F | Golden Age Drama |
| SPAB26S* | Golden Age Poetry |
| SPA350Y* | Golden Age Literature |
| VIC342Y | Renaissance Italian Literature in Translation |

**Major Programme in Renaissance Studies**
*Supervisor:* E.P. Vicari
Students must complete seven full-course equivalents from the following list:
**1** *Background*
Two full-course equivalents from the following:

| | |
|---|---|
| HISB13Y* | Europe in the Reformation Era, 1500-1650 |
| HISC12Y* | The Renaissance in Europe, 1350-1550 |
| HISC14Y* | The European Mentality in the Early Modern Period (1500-1700) |
| HIS357Y | The Renaissance |
| HUMA11Y | Greek and Roman Mythology |
| REL106Y | Basic Christian Beliefs |
| REL206Y | Reformation in the 16th Century |
| REL232Y | Christianity: Middle Ages and Renaissance |
| REL320Y | The Mythological Framework of Western Culture |
| PHLB44F | Philosophers of the Middle Ages I |
| PHLB45S | Philosophers of the Middle Ages II |
| PHLB40F | Plato and His Predecessors I |



| | |
|---|---|
| HLB41S | Plato and His Predecessors II |
| HLB42F | Aristotle I |
| HLB43S | Aristotle II |
| HLB46F | Philosophy of the Early Modern Age I |
| HI105Y | Philosophy in Western Culture |
| LL230Y | Greek and Roman Philosophy |
| HL200Y | The Birth of Western Philosophy (Plato and Aristotle) |
| HL268H | Political Theories: Ancient and Medieval |
| OLB70Y | Political Thought from Plato to Locke |

2 *Fine Art, Music and Drama*
wo full-course equivalents from the following:

| | |
|---|---|
| ARB15F | Renaissance in Italy |
| ARB16Y | The Arts of Northern Europe, 1400-1500 |
| ARB19F | Michelangelo |
| ARC09F* | Advanced Studies in the High Renaissance I |
| USB04F | Music of the Renaissance |
| USB15F* | Music in Elizabethan England |
| US301H* | Early Music |
| RAB12B | Medieval and Early Tudor Drama |
| AH200Y | European Art from 1400-1750 |

*Language and Literature*
hree full-course equivalents from the list under 3) of Specialist Programme.

*Discipline Representative:* S. Whalen
The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. *All Russian literature courses, with the exception of RUSC01Y, C02F, C03S, C04H, C05Y, are taught in translation and are open to non-specialists.*

**College Programme in Russian and Related Studies**
*Supervisor:* S. Whalen
This Programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a Programme in Russian and Related Studies can do much to promote a better understanding between East and West, in academic, governmental, industrial, journalistic and other fields.

The Programme is aimed at two different groups of students: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature or Russian and Soviet history, political science or economics; second, those interested in a general knowledge of the area as a complement to some other field of study.

The Programme requires the completion of ten full-course equivalents, one of which must be at the C-level:
**1** Two consecutive courses in Russian language from RUSA10Y, RUSB02Y, RUSC05Y.
**2** Four courses to be chosen from the following three groups and to include one from each group:

| | | |
|---|---|---|
| *a* | RUSB11Y | The Nineteenth-Century Russian Novel 1830-1880 |
| | RUSB21Y | Twentieth Century Russian Fiction, 1900-1940 |
| | RUSB23Y | Soviet Russian Underground Literature from the 1920's to the Present |
| | RUSC01Y | Twentieth Century Russian Poetry |
| *b* | HISB07Y | Russia from the Thirteenth Century to the Present |
| | HISC78Y | The Russian Intelligentsia |
| *c* | POLB86Y | Soviet Government and Politics |
| | ECOA01Y | Introduction to Economics |

**3** Four further full-course equivalents to be chosen from (2) or from the following list and to be approved by the Supervisor:

| | |
|---|---|
| RUSA01Y | Russian Culture |
| RUSB16Y | The Fiction of Leo Tolstoy |
| RUSB24F | The Russian Symbolist Novel |
| RUSB25Y | Post-1945 Soviet Russian Literature |
| RUSC05Y | Supervised Reading |
| HISB18Y | Europe under the Enlightened Despots |
| POLC85Y | Comparative Communism |
| ECOB68S | Comparative Economic Systems |
| ECOC07F | The Economics of Karl Marx |
| PHLB12F | Marx and Marxism |
| PHLB17S | Anarchism |
| HUMB44F | Disaster and the Literary Imagination |
| HUMB13Y | The Russian Revolution of 1917 |
| HUMB42S | Dostoevsky and the West |

**Overseas Programme**

Students in the Russian and Related Studies Programme, after completing their second year of Russian language study, become eligible to apply to go to the Pushkin Institute of Russian Language and Literature in Moscow, USSR, as participants of the Russian Studies Programme at Dalhousie University 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 in a supervised reading course.

For information consult the Supervisor.

**Major Programme in Russian Language and Literature**

*Supervisor:* S. Whalen

The Programme consists of seven full-course equivalents:

**1** Two consecutive courses in Russian Language from RUSA10Y, RUSB02Y, RUSC05Y

**2** Five further full-course equivalents to be chosen from:

RUSA01Y, RUSB11Y, RUSB21Y, RUSB23Y, RUSB24F, RUSC01Y, RUSC03S, RUSC04H, HUMB13Y, HUMB42S, HUMB44F

Students must include at least one full-course equivalent at the C-level

See also the Specialist Programme *Slavic and Literature.*

**RUSA01F Russian Culture**

An introduction to Russian culture from the tent century to the present.

After a general introduction to the history of Russia, topics will include: medieval and mode 1 folklore, customs and traditions, handicrafts, music and dance; literary development (from acceptance of Christianity to the present); the history of the Russian theatre and cinema; Russian icons, architecture and painting. Selected films, slides and dance demonstrations. No knowledge of Russian language is required.

One two-hour lecture per week.

Session: Winter Day

*Coordinator: N. Kosachov*

*other faculty involved: E.W. Dowler, A. Klimoff, N. Magdanoff, T. McGee, C.V. Ponomareff, M. Schonberg, S. Solomon, S. Whalen*

**RUSA10Y Introductory Russian**

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, 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. The textbook used is Galina Stilman and others, *Introductory Russian Grammar*, Xerox College Publishing.

Session: Winter Day

*N. Kosachov*

**RUSB02Y Intermediate Russian**

Expanded study to increase ability in speaking, writing and reading Russian.

A study of Russian morphology involving translation, composition, selected reading in the original and conversation. The course meets four hours a week in two intensive two-hour sessions plus additional language laboratory practice. The textbooks used are: P.A. Davis and V. Oprendek, *Making Progress in Russian*, Xerox, 1973; S. Khavronina and A. Shiroshenskaya, *Russian in Exercises*, Progress; S. Khavronina, *Russian As We Speak It*, Progress. Selection of texts for reading chosen according to the particular interest of students.

Exclusion: RUSA11 (Prior to 78/79)

Prerequisite: RUSA10 or completion of Grade 13 Russian

Session: Winter Day

*S. Whalen, C. Ponomareff*

**RUSB21Y Twentieth Century Russian Fiction, 1900-1940**

Varieties of fictional writing including novel, novella and short story in pre- and post- revolutionary Russia.

Beginning with some of Maxim Gorky's romantic stories and novels at the turn of the century, the course goes on to study representative works by the Russian Symbolists, Ivan Bunin's use of the novella, and the rich variety of creative writing among the Proletarian writers and the Fellow Travellers of the 1920's. The course ends with an examination of the Socialist Realist novel written during the Stalinist Terror of the 1930's. Texts: M. Gorky, *Mother*; A. Bely, *The Silver Dove*; V. Briusov, *The Republic of the Southern Cross*; I. Bunin, *The Gentleman from San Francisco*; I. Babel, *Red Cavalry*; F. Gladkov, *Cement*; Yu. Olesha, *Envy*; V. Kataev, *Time Forward!*; N. Ostrovsky, *How the Steel Was Tempered*.

Two hours per week of lecture and discussion. Course offered in English. However, students majoring in Russian, please see Programme requirements.

Session: Winter Day

*C. Ponomareff*

**RUSC02F**
**RUSC03S**
**RUSC04H**
**RUSC05Y Supervised Reading**

These supervised reading courses are designed for individual or very small groups of students who would like to pursue specific projects in Russian language and/or literature. Classes usually meet every other week for a two-hour session and students engaged in a literary project are expected to produce a paper in their area of study.

Prerequisite: RUSB02

Session: Winter Day or Winter Evening

*Staff*

**Courses Not Offered in 1981-82**

| | |
|---|---|
| **RUSA10B** | Introductory Russian |
| **RUSA11S** | Elementary Conversation<br>~~*Exclusion:* RUSB02~~<br>*Corequisite:* RUSA10B |
| **RUSB02B** | Intermediate Russian<br>*Prerequisite:* Grade 13 Russian or a comparable introductory course |
| **RUSB03S** | Intermediate Conversation |
| **RUSB11Y** | The Nineteenth - Century Russian Novel, 1830 - 1880 |
| **RUSB16Y** | The Fiction of Leo Tolstoy |
| **RUSB23Y** | Soviet Russian Underground Literature from the 1920's to the Present |
| **RUSB24F** | The Russian Symbolist Novel |
| **RUSB25Y** | Post-1945 Soviet Russian Literature |
| **RUSC01Y** | Twentieth Century Russian Poetry<br>*Prerequisite:* RUSB02 |

An introduction to Russian Culture from the tenth century to the present.

The course covers aspects of Russian Culture from Religion, Social Anthropology, History, Language, Literature, Music and the Arts. Films and slides will be part of the presentation. No knowledge of Russian language is required. The course makes use of invited speakers (two hour session per week) tutorials follow each presentation (1 hour per week).

The basic text used in the course is James H. Billington "The Icon and the Axe, an interpretive history of Russian Culture", New York 1967.
Time: R3-5
Session: Winter Day
Coordinators: C. Ponomareff, S. Whalen

**SOSB01S** Origins of the Social Welfare System
The philosophy and history of the Canadian welfare system. Its religious, secular, political and economic origins will be explored in some detail. Against this historical and ideological background, some current problems will be examined: guaranteed income, services for children and the elderly.
Session: Winter Day

NOTE: Please refer to the Women's Studies section of the Calendar for additional Social Science courses.

# Sociology

*Assistant Chairman:* J-L. deLannoy
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. It studies the consequences of co-operation, 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 part of a Specialist or Major Programme.

The introductory course, SOCA01, is intended to familiarize students with the special theories, methods and questions of sociology as a part of a liberal education. In addition, the A01 course provides a minimum background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide informal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.
The faculty advisers for special areas of concentration are:
*Social Work* — Prof. R.L. James
*Urban Studies* — Prof. J. Hannigan
*Science and Medicine* — Prof. M. Hammond
*Business and Government Administration* — Prof. N. Howell
*Education* — Prof. J.A. Lee

**Specialist Programme in Sociology**
*Supervisor:* S. Ungar
The Programme requires completion of eleven and one-half full-course equivalents as described below. No more than fourteen full-course equivalents in Sociology may be included in the four-year degree.
**1** SOCA01Y Introduction to Sociology
**2** SOCB01Y Methods in Social Research
**3** SOCB06F/S Social Statistics
**4** SOCB03Y History of Social Thought
**5** SOCC05Y Contemporary Social Theory
**6** One full-course equivalent in a macrostructural field at the B-level. Any one of SOCB04Y, SOCB05Y, SOCB10Y, SOCB13Y, SOCB14Y, SOCB15Y, SOCB16Y, SOCB20Y, SOCB23Y or JCSB27Y.
**7** One full-course equivalent in a microstructural field at the B-level. Any one of SOCB02Y, SOCB07Y or SOCB08F/B09S.
**8** Two full-course equivalents from the C-level offerings from the courses numbered C01 to C29 inclusive.
**9** One full-course equivalent from the C-level offerings: SOCC40F/S, SOCC41F/S, SOCC42F/S or SOCC43F/S.
**10** Two full-course equivalents from disciplines other than Sociology to be agreed upon in consultation with the Supervisor.

**Major Programme in Sociology**
*Supervisor:* S. Ungar
The Programme requires completion of six full-course equivalents in Sociology including:
**1** SOCA01Y Introduction to Sociology
**2** One of the macrostructure courses at the B-level: B04Y, B05Y, B10Y, B13Y, B14Y, B15Y, B16Y, B20Y, B23Y or JCSB27Y
**3** One of the microstructural courses at B-level: B02Y, B07Y, B08F/09S
**4** One full-course equivalent at the C-level in Sociology
**5** Two other B- or C-level full-course equivalents following the usual prerequisite rules applying to the chosen course. (e.g. C-level macrostructure follows from B-level macrostructure).

**SOCA01Y** Introduction to Sociology
An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions and social change.
Session: Winter Day, Winter Evening, Summer Evening
*M. Baker, S. Ungar, R. Beals*

**SOCB01Y** Methods in Social Research
The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports. Several studies will be examined in detail, and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses.
Prerequisite: One full-course equivalent in Sociology
Corequisite: SOCB06
Session: Winter Evening
*S. Ungar*

**SOCB02Y** Structure of Interpersonal Relations
Patterns of interaction and influence in interpersonal relations. The course begins with a consideration of the problem of social order; *i.e.*, how do we constrain individual desires and induce people to act morally. We will also examine the problem of the "absurd", using Camus' *Outsider*. This will be followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "altercasting" our behaviour, with examples drawn from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day, Summer Evening
*J. Lee*

**SOCB03Y** History of Social Thought
A study of the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. The course begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Spenser, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
*J-L. deLannoy*

**SOCB04Y** Political Sociology
A review of social and political theories; major political ideologies; political development and emergence of modern nation-state; political action (political protests, revolutions and wars of independence). The course will examine a num-

ber of contemporary issues such as the question of national unity, labour and politics, wage and price control, immigration law etc.
Prerequisite: One course in Sociology
Session: Winter Day
*M. MacKinnon*

**SOCB05Y Urban Sociology**
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, neighbourhood, community and other voluntary associations).
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
*J. Hannigan*

**SOCB06F Social Statistics**
A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. 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. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises. This course is intended to supplement SOCB01.
Exclusion: PSYB07, ECOB11
Prerequisite: One full-course equivalent in Sociology
Corequisite: SOCB01
Session: Winter Evening
*S. Ungar*

**SOCB07Y Small Groups**
Analyses of small group behaviour with special reference to the dynamics of structure formation, conflict patterns, maintenance patterns, and patterns of change. Limited enrolment: 20.
The first term will be conducted as an academic self-analytical group; the second term as a seminar. The method in the first term will be participation in group task performance supplemented by regular reading and written reports; and in the second term, class reports, discussions and research reports.
Prerequisite: Two courses in Sociology, one of which must be a B-level course.
Session: Winter Day
*W. Isajiw*

**SOCB08S Sociology of the Family as a Group**
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.
Exclusion: (SOCB12)
Prerequisite: SOCA01
Session: Winter Evening, Summer Day
*R. James*

**SOCB09F Sociology of the Family as an Institution**
An examination of 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: SOCA01
Session: Winter Evening, Summer Day
*M. Baker*

**SOCB11Y Sociology of Science**
A study of 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. This course will be of interest to students of both the natural and social sciences.
Session: Winter Day
*M. Hammond*

**SOCB13Y Canadian Society**
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 Evening
*D. Tippin*

**SOCB14Y Comparative Social Structure**
An examination of the institutional structure in different societies in order to develop a better understanding of the effects of structural variations on human behaviour.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
*L. deLannoy*

**SOCB15Y Sociology of Mass Media and Communications**
The study of the social organization of the mass media - radio, TV, newspapers, magazines and trade publications - and of the effects of the contents of mass communications on the general public.
Exclusion: (SOCC14)
Prerequisite: SOCA01
Session: Winter Day
*J. Hannigan*

**SOCB17S Medical Sociology**
Social factors in sickness and health, training of doctors and nurses, organization of health care services, and alternatives to conventional medical care. This course is designed to meet the needs of students in both the natural and the social sciences.
Session: Winter Day
*M. Hammond*

**SOCB18Y Sociology of Deviant Behaviour**
The analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as, crimes against persons, "victimless crimes"; mental illness, sexual deviation and alcoholism.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
*R. James*

**SOCB19Y Sociobiology**
An investigation of the linkages between sociology and the sciences of biological evolution. The course 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 theorists to link sociology to these sciences. The major part of the course will focus on the most recent attempts to apply an evolutionary perspective to the study of man. The course will consider such issues as the 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
*N. Howell*

**SOCB20Y Ethnic and Race Relations**
A study of the situations in which people in a society meet and mingle, the patterns of relations and behaviour that develop through frequent interaction, and the changes in perceptions, values, and attitudes that take place following such regular and protracted interaction. Specific topics to be discussed may include: the problem of stereotyping and prejudice; social mobility and "civil rights" movements as processes of change of ethnic status; maintenance of ethnic identity and conflict and continuity between ethnic generations; and societal integration especially as it bears upon the question of Canadian bilingualism and multiculturalism.
Prerequisite: One full-course equivalent in Sociology
Session: ~~Winter Day~~, Winter Evening
*W.W. Isajiw*

**SOCB24F Sociology of Education: Primary and Secondary Levels**
The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. The formal organization of school systems.
Exclusion: (SOCC08)
Prerequisite: SOCA01
Session: Winter Day
*J.A. Lee*

**SOCB25S Sociology of Education: University and Adult Levels**
Allocation and training of upper-level students, and relationships of higher education to the occupational system. Problems of education or retraining of older adults.
Exclusion: (SOCC08)
Prerequisite: SOCA01
Session: Winter Day
*J.A. Lee*

**JCSB27Y Organizational Behaviour**
Social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Empirical studies used in

the first term will focus on single organizations. Those used in the second term will focus on industries and other inter-dependent organizations.
Prerequisite: One previous course in Sociology, Commerce, Economics, or Political Science
Session: Winter Day, Winter Evening, Summer Evening
*D. Tippin, M. MacKinnon*

**SOCC03F Collective Behaviour**
The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Summer Day
*R. O'Toole*

**SOCC04S Social Movements**
The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its routinization. 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.
Prerequisite: Two courses in Sociology, including a B-level course.
Session: Winter Day
*S. Ungar*

**SOCC05Y Contemporary Social Theory**
A consideration of basic questions underlying sociological thinking as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally required, a previous course in social and/or political theory (e.g. SOCB03Y) would be a distinct asset.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Evening
*M. Hammond*

**SOCC06F 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 unanticipated consequences.
Prerequisite: Two courses in Sociology
Session: Winter Day, Summer Evening
*N. Howell*

**SOCC07S Sociology of Occupations and Professions**
A study, within the context of the relevant sociological theories of Durkheim, Weber and Marx, of the relationship of people to their work and their occupation through the examination of particular occupations in industry, bureaucracy and the professions. Career choice and patterns, questions of satisfaction and alienation, and future changes and trends are analysed with special reference to the Canadian labor force.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day
*D. Tippin*

**SOCC10F Sex, Self and Society**
A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course
Session: Winter Day
*M. Baker*

**SOCC11S 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.
Prerequisite: SOCB18
Session: Winter Evening, Summer Evening
*J.A. Lee*

**SOCC13S Industrial Sociology**
Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.
Prerequisite: One B-level full-course equivalent in Sociology (JCSB27 recommended)
Session: Winter Day
*M. MacKinnon*

**SOCC17F Social Change in the Third World**
Sociological studies of stratification, politics, religion, education, and kinship organization in countries of Africa, Asia, Latin America.
Prerequisite: Two courses in Sociology, one of which must be a B-level. (SOCB14 and SOCB16 recommended.)
Session: Winter Day
*J-L. deLannoy*

**OCC19F Sociology of Knowledge**
he sociology of knowledge as a social process.
xclusion: (SOCB22)
rerequisite: SOCB03
ession: Winter Day
*. Isajiw*

**OCC22S Qualitative Methods in Social esearch**
ystematic anlysis of basically non-statistical or ualitative materials. The craftsmanship of esearch. The problems, limitations and techniques of sociohistorical analysis, content analysis, and methodologies for the study of non-academic materials from non-scholarly sources.
imited enrolment: 15
rerequisite: SOCA01 and one B-level course in ociology.
ession: Winter Day
*. Howell*

**OCC24F Changing Family Life in Canada**
xamination of the major changes in the tructure of the family in Canada, and its consequences for family life.
rerequisite: Two courses in Sociology, one of hich must be a B-level course.
ession: Winter Day
*. James*

**OCC26F Sociology of Urban Growth**
n in-depth examination of the conditions, patterns and consequences of urban growth and evelopment. Major topics will include the emergence of new urban institutions (legal, olitical, economic) and the formation and operation of urban social networks.
rerequisite: Two full-course equivalents in ociology
ession: Winter Day
*. Hannigan*

**OCC28F Sociology of Aging**
n examination of the latter stages of the family ife cycle, with special reference to the period ollowing middle age, and including social and sychological dimensions of aging, changing oles, departure of children, the significance of etirement, problems of adjustment to aging, the lace of the aged person in the modern family, nd bereavement.
rerequisite: SOCB08 and SOCB09 (or SOCB12)
ession: Winter Evening
*. James*

**SOCC30S Criminal Behaviour**
An advanced study of the causes and consequences of criminal behaviour, with special emphasis on Canada.
Exclusion: (SOCC21)
Prerequisite: SOCB18
Session: Winter Day
*M. Baker*

**SOCC40F/S Supervised Independent Research**
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Prerequisite: Completion of fifteen full-course equivalents including SOCB01, SOCB03 and SOCB06. By permission of instructor only.
Session: Winter Day
*Staff*

**SOCC41F/S Supervised Independent Research**
Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.
Prerequisite: Completion of fifteen full-course equivalents including SOCB03, SOCB01 and SOCB06. By permission of instructor only.
Session: Winter Day
*Staff*

**SOCC42F/S Advanced Seminar in Sociological Theory**
Special topics in contemporary social theory, designed as a final year course for students taking a Specialist Programme in Sociology.
Prerequisite: SOCB03, SOCB01, and SOCB06
Session: Winter Day
*Staff*

**SOCC43F/S Advanced Seminar in Research Methods**
Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology.
Prerequisite: SOCB03, SOCB01 and SOCB06
Session: Winter Day
*Staff*

**Courses Not Offered in 1981-82**

**SOCB10Y** Social Class and Social Stratification
*Prerequisite:* One full-course equivalent in Sociology

**SOCB16Y** Social Change
*Prerequisite:* One full-course equivalent in Sociology

**SOCB23Y** Population
*Prerequisite:* One full-course equivalent in Sociology or JCSB27

**SOCC01F/S** Sociology of Revolution
*Prerequisite:* Two full-course equivalents in Sociology (SOCB14 and SOCB16 recommended)

**SOCC02F/S** Research on Small Groups
*Prerequisite:* SOCB02 or (SOCC01) or SOCB07 or PSYB10 or permission of instructor

**SOCC12F/S** Mathematical Methods in Sociology
*Prerequisite:* Permission of instructor

**SOCC16F/S** Sociology of Conflict
*Prerequisite* Two: full-course equivalents in Sociology, one of which must be a B-level course

**SOCC18Y** Sociology of Art and Culture
*Exclusion:* SOCC09 and SOCC18F/S
*Prerequisite:* Two full-course equivalents in Sociology

**SOCC20Y** Sociology of Religon
*Exclusion:* (SOCC20F/S)
*Prerequisite:* Two full-course equivalents in Sociology, one of which must be a B-level course

**SOCC25F/S** Comparative Race Relations
*Prerequisite:* Two full-course equivalents in Sociology, one of which must be a B-level course

**SOCC27F** Social Class in Canadian Society
*Prerequisite:* Two full-course equivalents in Sociology

**SOCC29S** Variant Family Forms
*Prerequsite:* SOCB08 and SOCB09

*Discipline Representative:* R. Skyrme

Students enrolling in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature.

Students who do not intend to take a Programme in Spanish are free to choose whichever courses they wish, provided that they have satisfied the relevant prerequisites. Students intending to enrol in the Major Programme in Spanish Language or in Spanish Language and Literature will find the requirements below.

Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may prove valuable to these students as adjuncts to their plan of study or as an enrichment of their total programme.

Students intending to enrol in the Specialist Programme in Modern Languages or in the Specialist Programme in Language and Literature should consult the listing in the Calendar.

It is important that students enrolled in Spanish, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, confer with the relevant Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

**Major Programme in Spanish Language**

*Supervisor:* R. Skyrme

Seven full-course equivalents are required as follows:

| | |
|---|---|
| LINA01Y | General Linguistics |
| SPAA01Y/A | Introductory Spanish (Note: Students who have Grade 13 Spanish must complete, in place of SPAA01, one full-course equivalent from SPA courses which are not named in the programme.) |
| SPAB01Y/B | Intermediate Spanish |
| SPAC01Y | Advanced Spanish |
| SPAB04F | Phonetics |
| SPAB12S | History of the Spanish Language I |
| HUMB15Y | The Civilization of Spain |
| or | |
| HUMB14Y | Topics in Latin American Culture and Literature |
| SPAB2IF/S | Stylistics and Translation |
| SPAB22F/S | History of the Spanish Language II |

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



**ajor Programme in Spanish Language and erature**

*upervisor:* R. Skyrme

ven full-course equivalents are required as llows (A01Y/A does not count towards ogramme requirement):

| | |
|---|---|
| SPAB01Y/B | Intermediate Spanish |
| SPAC01Y | Advanced Spanish |
| SPAB04F | Phonetics |
| SPAB12S | History of the Spanish Language I |
| SPAB03F | Pre-literary Examination of Texts |
| HUMB15Y | The Civilization of Spain |
| or | |
| HUMB14Y | Topics in Latin American Culture and Literature |
| SPAB18Y | Survey of Spanish Literature I |
| or | |
| SPAB19Y | Survey of Spanish Literature II |

One half-course from each of the following areas:

a) Medieval Literature: B35F/S, B36F/S, HUMC01F/S

b) Golden Age Literature: JSDB24F/S, B25F/S, B26F/S, HUMB21S

c) Modern Literature (Peninsular and/or Latin American): B13F/S, B17F/S, B27F/S, B29F/S, B30F/S, B33F/S

Information on the sequence and scheduling of these courses should be obtained from the Supervisor.

also the Specialist Programmes in *Modern guages* and *Language and Literature.*

culture and society. Stress is placed on written exercises, basic composition, reading, and conversation. Regular class attendance and participation are essential. Three hours per week in lecture/tutorial format.
Exclusion: Grade 13 Spanish
Session: Winter Day
*K. Gödde-Nijhowne*

**SPAB01Y: L01** Intermediate Spanish
Review of grammar and syntax: composition, translation and oral practice.

Review of grammar and syntax through excercises, drills, composition and translation. Language practice through conversation in class, reading aloud and oral presentation. A literary work will be chosen in addition to the main grammar text for illustrations of linguistic patterns, stylistic devices, etc.

There will be three class hours per week, one of which will be devoted to conversation. Additional practice will be arranged in tutorials.
Prerequisite: Grade 13 Spanish or SPAA01.
Session: Winter Day
*K. Gödde-Nijhowne*

**SPAB01Y: L02** Intermediate Spanish
Review of grammar and syntax: composition, translation and oral practice.

Review of grammar and syntax through excercises, drills, composition and translation of prose and poetry. Language practice, through conversation in class, reading aloud and oral presentation. Integration of stylistic devices, linguistic patterns, dialogue, etc. in a literary work. The play by A. Casona, *La barca sin pescador*, will be used in addition to the main grammar text.

**AA01**
urse
uctio
is co
gram
are a
cise
ation
icipe
ature
usion
ion:
Chicc

**SPAA01Y** Introductory Spanish

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

Stress is placed on oral practice and conversation. Regular class attendance and participation are essential. Three hours per week: 1 hour grammar (1 section); 2 hours oral practice (4 sections).

Exclusion: Grade 13 Spanish
Corequisite: SPAA02H for those students who wish to continue with second year language courses, none for others.

Session: Winter Day
P. León, K. Gödde-Nijhowne

**AA01** Introductory Spanish
urse in basic grammar and syntax, with
uction in spoken and written Spanish.
his course covers the basic aspects of Span-
grammar with some reference to Hispanic

...the critical skills on which the understanding and enjoyment of literature depend. There are two lecture/tutorial hours per week, with a further tutorial hour to be arranged. Regular attendance and class participation are essential.

**SPAA02H** Language Practice

The course will consist of grammatical analysis of texts, translations, and compositions. Two hours per week (2 sections).

Exclusion: Grade 13 Spanish

There will be regular oral and written commentaries on assigned texts.
NOTE: Since this course is a prerequisite for several Spanish literature courses, students are reminded that it should be taken in the same year as SPAB01.
Corequisite: SPAB01
Session: Winter Day
*R. Barta*

**SPAB04F Phonetics**
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 concentrates on the description and distribution of Castilian speech sounds and emphasizes basic intonation patterns. In the tutorial hour students practise exercises in articulation, transcription, and dictation. There is one laboratory hour per week of intensive oral practice.
Corequisite: SPAA01
Session: Winter Day
*R. Skyrme*

**SPAB12S History of the Spanish Language I**
The languages of Spain, from pre-Roman times to the medieval period.

The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romance languages. A survey of the pre-Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in 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 Peninsular Romance, focussing on the growth of the Castilian dialect. Class participation and discussion are encouraged. There are three hours per week in lecture/tutorial format.
Prerequisite: SPAB04
Session: Winter Day
*R. Skyrme*

**SPAB17F The Nineteenth-Century Spanish Novel**
Evolution of the Spanish novel in the nineteenth century traced through reading and discussion of the work of representative exponents of *Costumbrismo*, Regionalism, Realism, and Naturalism.

A sampling of prose-writing in the Romantic period will lead to an investigation of the gradual emergence of the nineteenth-century Spanish novel as a mature literary form, and in particular to the problem of the late rebirth of the realist novel with Galdos. Following reading and discussion of costumbrista and regional novels, attention will be focussed 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. There will be two hours per week in lecture/tutorial format.
Prerequisite: SPAA01
Session: Winter Day
*R. Skyrme*

**SPAB18Y Survey of Spanish Literature I**
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 include the Medieval lyric, epic and clerical poetry; Medieval prose and drama; Renaissance poetry, prose and drama; Humanism; Mysticism; literature of the Baroque period.

Three lecture/discussion hours weekly. Class participation is essential.
Prerequisite: SPAA01
Session: Winter Day
*R. Barta*

**SPAB21S Stylistics and Translation**
The examination of Spanish literature in relation to the resources of the language.

This course includes an analysis of the principles of stylistics applied to pertinent problems inherent in the study of Spanish texts of various periods, especially those dealing with the translation of literary texts. Students will be made aware of the several modern schools of literary investigation both extrinsic and intrinsic, as well as the several approaches to translation and the levels of difficulty inherent in particular texts. A certain amount of creative composition is expected.

Two hour lecture/practice session weekly. Regular class assignments.
Prerequisite: SPAB01
Session: Winter Day
*R. Barta*

**SDB24F Golden Age Drama**
he Drama of the Spanish Golden Age, sixteenth nd seventeenth centuries.

The main topics of study in this course will be: ) a résumé of Spanish Drama before the sixenth century and Spanish dramatic theory; b) e *entremeses* or interludes of Cervantes; c) the age in the Golden Age; and d) the major dramasts of the period: Lope de Vega, Tirso de olina, Ruiz de Alarcón and Calderón de la arca. Although emphasis will be placed on the erary analysis of the plays, "practical" aspects, uch as the editing of a text for staging, the nreliability of translations, stage design, cosmes, etc. will be considered. One or more lays, or scenes from plays, will be staged. Video pes of professional productions will be shown nd discussed.

No knowledge of Spanish language is quired. However, students majoring in Spanish lease see Programme requirements.

There will be two hours of lecture discussion nd one hour seminar per week. Additional ours will be arranged for tutorials, play staging etc.
xclusion: (SPAB24)
ession: Winter Day
*. León*

**PAB27S The Poetry and Theatre of García orca**
study of the main poetic and dramatic works of arcía Lorca.

After an examination of the social and political nilieu in which García Lorca lived, the following ajor aspects of his work will be considered: a) e early poems; b) the *Romancero gitano*; c) the etic comedies and tragedies; d) the short plays nd farces.

The teaching method will involve a two-hour cture plus a one-hour tutorial per week.
rerequisite: None. (Students majoring in Spanh should see the Programme description).
ession: Winter Day
*. León*

**PAB35F Medieval Prose Literature**
panish Prose Literature of the thirteenth, fourenth and fifteenth centuries.

A study of representative works of the period. he emphasis will be on the Arcipreste de alavera's *Corbacho*, Don Juan Manuel's *Conde ucanor*, and the works of Alfonso X el Sabio.

The teaching method will involve lectures and iscussion.
rerequisite: SPAB03
ession: Winter Day
*I. Chicoy-Dabán*

**SPAC01Y Advanced Spanish**
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. Three hours per week in lecture/tutorial format. Course required for Spanish Major, but open to all qualified students.
Prerequisite: SPAB01
Session: Winter Day
*R. Skyrme*

**SPAC02F-C06F**
**CO7S-C10S**
**C11Y Supervised Reading**
Students who wish to enter the Spanish Supervised Reading programme should enrol 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. They will be expected to read much of the material on their own, and to meet with their tutor once a week. The exact arrangements will depend on the nature of the text and the level of ability of the students.

Specific topics in Peninsular Spanish and Latin American literature, linguistics and culture.
Prerequisite: SPAB03; one course in Spanish Literature
Session: Winter Day
*R. Barta, J.I. Chicoy-Dabán, P. León*

*See also the following courses offered under Humanities:*

| | |
|---|---|
| HUMB14Y | Topics in Latin American Culture and Literature |
| HUMB15Y | The Civilization of Spain |
| HUMB21S | The Literature of the Spanish Mystics |
| HUMB45S | The Spanish Civil War: Fact to Fiction |
| HUMC01S | Lyric Poetry of the Middle Ages in the Mediterranean Area |

**Courses Not Offered in 1981-82**

| | |
|---|---|
| **SPAB13F** | Romanticism<br>*Prerequisite:* SPAA01 |
| **SPAB19Y** | Survey of Spanish Literature II<br>*Prerequisite:* SPAA01 |
| **SPAB22F/S** | History of the Spanish Language II<br>*Prerequisite:* SPAB12 |

**SPAB25F** Golden Age Prose
*Prerequisite:* SPAB03

**SPAB26F** Golden Age Poetry
*Corequisite:* SPAB03

**SPAB29F** Spanish American Literature: The Short Story
*Prerequisite:* SPAA01

**SPAB30S** The Novel of the Mexican Revolution
*Prerequisite:* SPAA01

**SPAB33F/S** Spanish American Poetry 1880-1920
*Prerequisite:* SPAB03

**SPAB36F** Medieval Poetry
*Prerequisite:* SPAB03

**SPAC20S** Advanced Conversation
*Corequisite:* SPAC01

## Statistics

*Staff member responsible for curriculum:* M. Evans

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics, physics and many others.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of sophisticated experiments to determine the relative efficacies of different vaccines.

STAB52F and STAB57S serve as an introduction to the discipline. These courses are part of the Mathematics Specialist and Major Programmes. STAC52F and STAC67S build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

STAB52F Probability and Statistics I
STAB57S Probability and Statistics II
STAC42F Multivariate Analysis
STAC67S Regression Analysis
For further information see under Mathematics.

**Courses Not Offered in 1981-82**

**STAC52F** Experimental Design
*Exclusion:* PSYB08
*Prerequisite:* STAB57 (MATB57)

## Women's Studies

There are courses already available to students interested in women's studies, and a College Programme may be offered in the near future. It is recommended that all interested students take JHSA01Y, Introduction to Women's Studies. The other courses listed below will enable students to pursue more specialized interests. Women's studies projects are available in some other courses and students are encouraged to consult C. Bertrand-Jennings.

JHSA01Y Introduction to Women's Studies - S. Namjoshi, L.J. Abray
ANTC11Y Anthropology of Women - S. Hilton, M. Latta
ANTC54Y Anthropology of Sex - E. Molto
ENGC40F Women Poets - S. Namjoshi
FREB80F/S Images of Women in French Literature - C. Bertrand-Jennings
FREB81F/S Women's Consciousness in French Literature - C. Bertrand-Jennings
HUMB26Y Women in the Major Western Religions - J. McAuliffe
HUMB61F/S Women in Ancient Greece - M.E. Irwin
HUMB64Y Literary Considerations and Feminism - S. Namjoshi
LINB28F Language and Sex - D. James
PSYC22S Socialization Processes - K. Dion
SOCB08F Sociology of the Family as a Group - R. James
SOCB09S Sociology of the Family as an Institution - M. Baker
SOCC10F/S Sex, Self and Society - A. Baker
SOCC24F/S Changing Family Life in Canada - R. James
SOCC28F/S Sociology of Aging
SOCC29F Variant Family Forms

**JHSA01Y Introduction to Women's Studies**
Women and their roles and relationships in various societies. Taught by members of the disciplines of Anthropology, Classics, English, French, History, Linguisitics and Sociology. The course provides an overview of the problems investigated by specialists in women's studies and teaches how to use the methodologies of a range of disciplines to explore these problems.

Areas for discussion include women and mythology, women and power, women's roles in the family, and women and literature. Among the particular topics are: the origins of misogyny; sexual stereotyping; poetry and propaganda; and the family - myth and reality. A detailed bibliography will be distributed at the first session.

Teaching method: lecture and discussion with occasional seminars.
Session: Winter Day
*Coordinators: S. Namjoshi, L.J. Abray*

# 5

# Timetable

## Key

*Explanation of Suffixes, Y,A,B,F,S and H*

'Y' A course taught throughout the session worth one full course credit.
'A' A course taught in the first term and worth one full course credit.
'B' A course taught in the second term and worth one full course credit.
'F' A course taught in the first term and worth one-half course credit.
'S' A course taught in the second term and worth one-half course credit.
'H' A course taught throughout the session and worth one-half course credit.

*Explanation of M,T,W,R,F and T.B.A.*

M,T,W,R,F - the days of the week with R denoting Thursday.
T.B.A. - denotes that the student is responsible for arranging time and/or room with the instructor for that course.

*Explanation of Letters*

L - Lectures
P - practical work in laboratories or studios (* denotes every other week)
T - tutorials
E - evening

*Explanation of Lecture Section Numbers*

01 etc. day sections
30 etc. evening sections

*Tying of Sections*

Some lecture, practical and tutorial sections must be taken as a 'package'. This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g. P0101 and T0102 must be taken with L01; and T3001 or T3002 must be taken with L30.
The reason for 'tying' sections is that the subject matter may differ from section to section. Many courses are 'untied' so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be 00,eg.P0001 or P0002 and T0001 or T0002 may be taken with L01 or L02 or L03.

*Rooms*

Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.

## Summer Session Courses, 1981

*Monday 11th May:*
Classes for 'F' 'H' 'A' and 'Y' courses begin
*Friday 26th June:*
Classes for 'A' and 'F' courses end
*Thursday 2nd July:*
Classes for 'B' and 'S' courses begin
*Friday 21st August:*
Classes for 'Y' 'B' 'H' and 'S' courses end

### Summer Day

*Course No. and Title*

| | |
|---|---|
| ANTB11F | Human Behaviour in the Old Stone Age |
| ANTB12S | The Rise of Civilization |
| ANTC12F | Research on the Social Behaviour of Non-Human Primates |
| CHMC45Y | Library Thesis |
| CHMC46Y | Introduction to Research |
| CHMC47F/S/H | Library Thesis |
| ECOB03Y | Price Theory |
| ECOB07Y | Macroeconomic Theory and Policy |
| POLB71B | Political Thought of the Eighteenth and Nineteenth Centuries |
| PSYB09S | General Experimental Psychology |
| SOCB08S | Sociology of the Family as a Group |
| SOCB09F | Sociology of the Family as an Institution |
| SOCC03F | Collective Behaviour |

### Summer Evening

| | |
|---|---|
| ANTC03F | |
| ANTC04S | Directed Reading in Anthropology |
| ANTC13F | |
| ANTC14S | Advanced Research in Anthropology |
| COMA01Y | Financial Accounting |
| COMB01Y | Management Accounting |
| CSCA56H | Computer Programming |
| ECOA01Y | Introduction to Economics |
| ENGB10Y | Shakespeare |
| ENGB26Y | Canadian Poetry in English |
| GGRA05Y | ~~Introduction to Physical Geography~~ |
| HISB04Y | Introduction to Canadian History |
| HISB13Y | Europe in the Reformation Era 1500-1650 |
| HUMA11Y | Greek and Roman Mythology |
| JCSB27Y | Organizational Behaviour |
| MATA26Y | Calculus |
| PHLB05F | Social Issues |
| PHLB53S | The Art of Thinking |
| POLB50Y | Canadian Government and Politics |
| PSYA01Y | Introduction to Psychology |
| PSYB20F | Developmental Psychology |
| PSYB32F | Abnormal Psychology |
| PSYB57S | Human Learning and Memory |
| PSYB65F | Biological Foundations of Behaviour |
| PSYC85S | History of Psychology |
| SOCA01Y | Introduction to Sociology |
| SOCB02Y | Structure of Interpersonal Relations |
| SOCC06F | Applied Sociology |
| SOCC11S | Sociology of Law and Law Enforcement |

GGRC34F Landscape Interpretation

### Summer Programmes

**Scarborough Language Institute**

| | |
|---|---|
| FREA06B | Introductory French |
| FREA07S | Elementary Conversation I |
| FREA16B | Elementary French |
| FREA17S | Elementary Conversation II |
| FREB06B | Language Practice I |
| FREB07S | Intermediate Conversation I |
| FREB16B | Language Practice II |
| FREB17S | Intermediate Conversation II |
| FREB39S | Workshop in Modern French Theatre |
| FREC06B | Language Practice III |
| FREC16B | Advanced French |

**Summer Arts Programme**

| | |
|---|---|
| DRAB10B | Improvisational Theatre: The Commedia dell'Arte |
| FARB76A | Intermediate Painting I |
| FARB77B | Intermediate Painting II |
| FARB84A | Introduction to Etching |
| FARB85B | Intermediate Etching |
| HUMB80Y | Creative Writing: An Introduction |
| MUSB15F | Music in Elizabethan England |

# Winter Session Evening Courses

*Key: MTWRF: days of the week with R as Thursday*
Tutorials may be given in addition to the lecture times given below. They will normally be given on the same night except as noted below.

| *Course No. & Title* | | *Day & Time* |
|---|---|---|
| ANTA01Y | Introduction to Anthropology | T7-10 |
| ANTB20Y | Introduction to Social Organization | M7-10 |
| ANTB21Y | North American Background to Canadian Native Peoples | W6-9 |
| ANTB54Y | The Anthropology of Sex | R7-10 |
| ANTC03F | | |
| ANTC04S | Directed Reading in Anthropology | TBA |
| ANTC09Y | The Anthropology of Humour | R7-10 |
| ANTC13F | | |
| ANTC14S | Advanced Research in Anthropology | TBA |
| ASTB03S | Great Moments in Astronomy | R7-9 |
| BIOC16S | Marine Biology: Habitats and Communities | M7-10 |
| CLAB02Y | Greek and Roman Tragedy | T7-9 |
| COMA01Y | Financial Accounting | T7-10 L30<br>W7-10 L31 |
| COMB01Y | Management Accounting | R7-10 |
| COMC01Y | Accounting Theory | W7-10 |
| COMC15Y | Income Tax | W7-10 L30<br>M7-10 L31 |
| COMC50F | Advanced Accounting | M7-10 |
| COMC60S | Auditing | M7-10 |
| CSCA56F | Computer Programming | W7-10<br>M7-9 T3001<br>M7-9 T3002 |
| DRAB03Y | The History of Theatre I | M7-9<br>M6 T3001 |
| ECOA01Y | Introduction to Economics | W7-10 |
| ECOB03Y | Price Theory | M7-10 |
| ECOB07Y | Macroeconomic Theory and Policy | W7-10 |
| ECOC11F | Supervised Reading | TBA |
| ECOC12S | Supervised Reading | TBA |
| ENGA01Y | English Literature: Practical Criticism and Interpretation | W7-10 |
| ENGB08Y | American Literature: An Introduction | T7-10 |
| ENGB16Y | Fiction 1832-1900 | R7-9 |
| FARA10F | Ancient Art and Architecture | T7-9 |
| FARA13S | Modern Art: 1750 to the Present | M7-10 |
| FARA70F | Two and Three Dimensional Design | M7-10 |
| FARA71S | Colour | M7-10 |
| FARA90Y | Foundation Studies in Studio | W7-10 |
| FARB30S | Frans Hals, Rembrandt and Vermeer | R7-9 |
| FARB46F | Gauguin, Seurat, Van Gogh, Cezanne | M7-9 |
| FARB47F | Nineteenth Century Realism | R7-9 |
| FARB70F | Introductory Drawing | T7-10 |
| FREB16Y | Language Practice II | T7-10 |
| FREB49Y | The Twentieth Century: The Search for Identity | M7-9 |
| GRHB03Y | Roman History from the Gracchi to Nero | W7-10<br>W6 T3001 |
| HISA01Y | The European World: An Introduction to History | T7-9<br>T6 T3001<br>T9E T3002<br>T10E T3003 |
| HISB16Y | Modern France 1750 to the Present | M7-9<br>M6 T3001<br>M9E T3002 |
| HISB21F | Frontier Communities in the British Empire-Commonwealth: The South African Model | R7-9 |
| HISB22S | British Imperialism in India | R7-9 |
| HISC20H | Anglo-Saxon England | M7-9 |
| HISC41F | Old Huronia | W7-9 |
| HUMB14Y | Topics in Latin American Culture and Literature | M7-9 |
| HUMB28Y | Major Religious Traditions, East and West | R7-9 |
| HUMB80Y | Creative Writing: An Introduction | M7-9 |
| JCEB54S | Industrial Relations | T7-10 |
| JCEC02Y | Corporation Finance | T7-10 |
| JCSB27Y | Organizational Behaviour | M7-10 |
| JHIB71F | Italian Cinema | M7-10 |
| LINB26S | Languages of the World | M7-9 |
| NSCA02Y | Introduction to Natural Science: The Biological Sciences | T7-10 |
| PHLA01Y | Fundamental Questions of Philosophy | T7-10 |
| PHLB12F | Marx and Marxism | M7-10 |
| PHLB17S | Anarchism | M7-10 |
| PHLB44F | Philosophers of the Middle Ages I | W7-10 |
| PHLB60S | Existence and Reality | W7-10 |
| POLB60Y | Public Administration | M7-10 |
| POLB65Y | Political Behaviour | R7-10 |
| POLB86Y | Soviet Government and Politics | T7-10 |
| POLC50Y | Canadian Problems in Comparative Perspectives | W7-10 |
| PSYA01Y | Introduction to Psychology | W7-10<br>T7-9 P3001<br>W5-7 P3002 |
| PSYB07S | Data Analysis in Psychology | T7-10 |
| PSYB10F | Introduction to Social Psychology | T7-10<br>M4 T3001<br>T10 T3002<br>W4 T3003<br>R2 T3004<br>T6 T3005<br>T6 T3006<br>T9E T3007<br>T9E T3008 |
| PSYB12S | Advanced Social Psychology | M7-10 |
| PSYB32F | Abnormal Psychology | W7-10 |
| PSYB32S | Abnormal Psychology | R7-10 |
| PSYB50F | Sensation and Perception | R7-10 |
| PSYB65S | Biological Foundations of Behaviour | W7-10 |
| PSYC53F | Current Topics in Human Information Processing | M7-10 |
| PSYC90F/S/H | Supervised Study in Psychology | TBA |
| PSYC93F/S/H | Supervised Study in Psychology | TBA |
| SOCA01Y | Introduction to Sociology | T7-10 |
| SOCB01Y | Methods in Social Research | R7-10 |
| SOCB06F | Social Statistics | T7-10 |
| SOCB08S | Sociology of the Family as a Group | W7-10 |
| SOCB09F | Sociology of the Family as an Institution | W7-10 |
| SOCB13Y | Canadian Society | R7-10 |
| SOCB20Y | Ethnic and Race Relations | M7-10 |
| SOCC05Y | Contemporary Social Theory | W7-9 |
| SOCC11S | Sociology of Law and Law Enforcement | T7-10 |
| SOCC28F | Sociology of Aging | M7-10 |

LINB25F T7-10

# Winter Session Courses 1981-82

| | | |
|---|---|---|
| ANTA01Y | L01 | MWF12 |
| | L30 | T7-10E |
| | T0001 | T10 |
| | T0002 | T3 |
| | T0003 | T1 |
| | T0004 | W9 |
| | T0005 | W4 |
| | T0006 | W1 |
| | T0007 | F9 |
| | T0008 | F2 |
| | T0009 | F3 |
| ANTA03Y | L01 | M3-5W4 |
| | T0001 | M10 |
| ANTB02Y | L01 | R11-1 |
| ANTB05S | L01 | T11-1 |
| ANTB11F | L01 | T9-11R10 |
| ANTB12S | L01 | T9-11R10 |
| ANTB15Y | L01 | T1-3 |
| | P0001 | R9-12 |
| ANTB16S | L01 | R1-3 |
| ANTB17F | L01 | M3-5W4 |
| ANTB20Y | L30 | M7-10E |
| ANTB21Y | L30 | W6-9E |
| ANTB23Y | L01 | F2-4 |
| ANTB26Y | L01 | TR3 |
| | T0001 | T1 |
| | T0002 | T2 |
| ~~ANTB30Y~~ | ~~L01~~ | ~~R11-1~~ |
| ANTB32F | L01 | M9F9-11 |
| ANTB37S | L01 | T1R1-3 |
| ANTB38F | L01 | T1R1-3 |
| ANTB40Y | L01 | R11-1 |
| ANTB43S | L01 | R1-3 |
| ANTB44Y | L01 | T9-11 |
| ANTB47F | L01 | R1-4 |
| ANTB50F | L01 | W2-4 |
| ANTB51Y | L01 | T11-1 |
| ANTB54Y | L30 | R7-10E |
| ANTC03F | L01 | TBA |
| ANTC04S | L01 | TBA |
| ANTC09Y | L30 | T7-10E |
| ANTC11Y | L01 | M9-11 |
| ANTC13F | L01 | TBA |
| ANTC14S | L01 | TBA |
| ANTC29Y | L01 | W9-12 |
| ANTC42Y | L01 | M2W2-4 |
| ANTC43Y | L01 | R9-11 |
| ASTA02Y | L01 | T1R10 |
| | T0001 | R11 |
| | T0002 | R1 |
| ASTA03Y | L01 | TR11 |
| | T0001 | R10 |
| | T0002 | R12 |
| | T0003 | R2 |
| ASTB02H | L01 | R12 |
| ANTC15S | L01 | F9-11 |

| | | |
|---|---|---|
| ASTB03S | L30 | R7-9E |
| ASTC01H | L01 | TBA |
| BIOA03Y | L01 | TR9 |
| | L02 | TR1 |
| | P0001 | T10-1 |
| | P0002 | W1-4 |
| | P0003 | R2-5 |
| | P0004 | F1-4 |
| BIOB02Y | L01 | T9-11 |
| | P0001 | T2-5 |
| | P0002 | R9-12 |
| BIOB05Y | L01 | WF9 |
| | P0001 | M2-5 |
| | P0002 | W2-5 |
| BIOB06Y | L01 | MW2 |
| | P0001 | T10-1 |
| | P0002 | W10-1 |
| BIOB08Y | L01 | MW12 |
| | P0001 | R10-1 |
| | P0002 | R2-5 |
| BIOB11Y | L01 | MW1 |
| | P0001 | F10-1 |
| BIOB12Y | L01 | MW4 |
| | P0001 | M10-1 |
| | P0002 | R2-5 |
| BIOB13Y | L01 | MW11 |
| | P0001 | T10-1 |
| | P0002 | T2-5 |
| | P0003 | T6-9E |
| BIOB17Y | L01 | MW1 |
| | P0001 | M2-5 |
| | P0002 | T9-12 |
| | P0003 | T2-5 |
| | P0004 | W10-1 |
| | P0005 | M6-9E |
| BIOB19S | L01 | T2-4 |
| | P0001 | F9-5 |
| BIOB20F | L01 | M2F1 |
| | P0001 | R9-12 |
| BIOB22Y | L01 | MW3 |
| | P0001 | R9-12 |
| | P0002 | R2-5 |
| BIOB23Y | L01 | R1-3 |
| | P0001 | W10-1 |
| | P0002 | W2-5 |
| BIOB27Y | L01 | MW10 |
| | P0001 | F9-12 |
| | P0002 | F2-5 |
| BIOB31F | L01 | R10-12 |
| | P0001 | TBA |
| BIOB48F | L01 | F1-3 |
| | P0001 | W2-5 |
| BIOB49S | L01 | F1-3 |
| | P0001 | W2-5 |
| BIOC01Y | L01 | TBA |

| | | |
|---|---|---|
| BIOC02Y | L01 | TBA |
| BIOC09F | L01 | TBA |
| BIOC10S | L01 | T11-1 |
| | P0001 | M2-5 |
| BIOC11Y | L01 | M10-12 |
| | P0001 | F1-5 |
| BIOC12H | L01 | M11 |
| BIOC14F | L01 | MW9 |
| | P0001 | W6-9E |
| BIOC16S | L30 | M7-10E |
| BIOC17F | L01 | W2-5 |
| CHMA02Y | L01 | MW9 |
| | L02 | MW11 |
| | P0001 | M1-5 |
| | P0002 | M1-5 |
| | P0003 | M1-5 |
| | P0004 | T1-5 |
| | P0005 | T1-5 |
| | P0006 | W1-5 |
| | P0007 | W1-5 |
| | P0008 | F12-4 |
| | P0009 | F12-4 |
| | P0010 | M1-5 |
| | P0011 | M1-5 |
| | P0012 | M1-5 |
| | P0013 | T1-5 |
| | P0014 | T1-5 |
| | P0015 | W1-5 |
| | P0016 | W1-5 |
| | P0017 | F12-4 |
| | P0018 | F12-4 |
| CHMB01Y | L01 | MF2 |
| | T0001 | F10 |
| CHMB02Y | L01 | M11 |
| | T0001 | F9 |
| | P0001 | W9-4 |
| | P0002 | W9-4 |
| | P0003 | R9-4 |
| | P0004 | R9-4 |
| CHMB03Y | L01 | M3-5W3 |
| CHMB05Y | L01 | MF12 |
| | P0001 | T9-1 |
| | P0002 | W9-1 |
| | P0003 | W9-1 |
| | P0004 | R1-5 |
| | P0005 | T9-1 |
| | P0006 | W9-1 |
| | P0007 | W9-1 |
| | P0008 | R1-5 |
| CHMC01Y | L01 | M9-11 |
| | P0001 | T10-5 |
| | P0002 | T10-5 |
| CHMC02Y | L01 | W2-4 |
| | P0001 | T10-5 |

| | | |
|---|---|---|
| CHMC03Y | L01 | M12T9 |
| | P0001 | R9-12 |
| | P0002 | R9-12 |
| | P0003 | R9-12 |
| CHMC45Y | L01 | TBA |
| CHMC46Y | L01 | TBA |
| CHMC47F/S/H | L01 | TBA |
| CHMC48S | L01 | TBA |
| CHMC49S | L01 | TBA |
| CHMC50S | L01 | TBA |
| CHMC51S | L01 | TBA |
| CLAA01Y | L01 | MWF11 |
| CLAB02Y | L30 | T7-9E |
| CLAB21Y | L01 | T2-4 |
| COMA01Y | L01 | MWF3 |
| | L02 | T11-1 |
| | L03 | T2-4 |
| | L04 | W9-11 |
| | L05 | R9-11 |
| | L06 | R3-5 |
| | L30 | T7-10E |
| | L31 | W7-10E |
| COMB01Y | L01 | MWF11 |
| | L02 | T9-11R11-1 |
| | L03 | R9-11 |
| | L30 | R7-10E |
| COMC01Y | L01 | T2-4R1-3 |
| | L30 | W7-10E |
| COMC04F | L01 | R3-5 |
| COMC05S | L01 | R3-5 |
| COMC15Y | L30 | W7-10E |
| | L31 | M7-10E |
| COMC30Y | L01 | T9-11 |
| | L02 | R9-11 |
| COMC50F | L30 | M7-10E |
| COMC60S | L30 | M7-10E |
| CSCA56F | L01 | MW2 |
| | L30 | W7-10E |
| | T0001 | T9-11 |
| | T0002 | T2-4 |
| | T0003 | F2-4 |
| | T0004 | R9-11 |
| | T0005 | R11-1 |
| | T0006 | R3-5 |
| | T0007 | T11-1 |
| | T3001 | M7-9E |
| | T3002 | M7-9E |
| CSCA56S | L01 | MW2 |
| | T0001 | T2-4 |
| | T0002 | F2-4 |
| | T0003 | R3-5 |
| | T0004 | T11-1 |

| | | |
|---|---|---|
| CSCA58F | L01 | MW2 |
| | L02 | MW4 |
| | T0001 | M3-5 |
| | T0002 | T9-11 |
| | T0003 | W3-5 |
| | T0004 | R11-1 |
| | T0005 | R3-5 |
| | T0006 | M3-5 |
| | T0007 | F11-1 |
| CSCA66S | L01 | MW2 |
| | T0001 | M3-5 |
| | T0002 | F2-4 |
| | T0003 | R9-11 |
| | T0004 | F11-1 |
| | T0005 | R10-12 |
| CSCA68S | L01 | MW2 |
| | T0001 | M3-5 |
| | T0002 | T9-11 |
| | T0003 | W3-5 |
| | T0004 | R11-1 |
| | T0005 | R3-5 |
| | T0006 | F2-4 |
| | T0007 | W11-1 |
| | T0008 | T2-4 |
| CSCB08S | L01 | M9W9-11 |
| | T0001 | T4 |
| CSCB28S | L01 | M4F2-4 |
| CSCB68F | L01 | M4F2-4 |
| CSCB73F | L01 | MWF11 |
| CSCC34F | L01 | M12W12-2 |
| CSCC44F | L01 | M4F11-1 |
| CSCC64S | L01 | M12W12-2 |
| DRAB01Y | L01 | MWF12-2 |
| DRAB02Y | L01 | W2-4 |
| DRAB03Y | L30 | M7-9E |
| | T3001 | M6E |
| DRAC01Y | L01 | T1-4 |
| DRAC10Y | L01 | TBA |
| DRAC11Y | L01 | TBA |
| DRAC12Y | L01 | TBA |
| DRAC13Y | L01 | TBA |
| DRAC14Y | L01 | TBA |
| DRAC20Y | L01 | TBA |
| DRAC21Y | L01 | TBA |
| DRAC22Y | L01 | TBA |
| DRAC23Y | L01 | TBA |
| DRAC24Y | L01 | TBA |
| DRAC25F | L01 | TBA |
| DRAC26S | L01 | TBA |
| DRAC27F | L01 | TBA |
| DRAC28S | L01 | TBA |

| | | |
|---|---|---|
| ECOA01Y | L01 | MWF11 |
| | L02 | MWF12 |
| | L03 | MWF1 |
| | L30 | W7-10E |
| | T0101 | M12 |
| | T0102 | M2 |
| | T0103 | R12 |
| | T0201 | M11 |
| | T0202 | W4 |
| | T0203 | M2 |
| | T0301 | M4 |
| | T0302 | R2 |
| | T0303 | R3 |
| ECOB03Y | L01 | MWF9 |
| | L02 | MWF11 |
| | L03 | M[redacted]2, W1-3 |
| | L30 | M7-10E |
| ECOB07Y | L01 | MWF12 |
| | L02 | MWF1 |
| | L30 | W7-10E |
| ECOB11F | L01 | MWF2 |
| | T0001 | M12 |
| | T0002 | W12 |
| | T0003 | F10 |
| | T0004 | F9 |
| ECOB11S | L01 | MWF2 |
| | T0001 | M12 |
| | T0002 | W12 |
| | T0003 | F10 |
| | T0004 | F9 |
| ECOB12S | L01 | MWF1 |
| ECOB20F | L01 | MWF12 |
| ECOB21S | L01 | MW12 |
| ECOB31S | L01 | WF10 |
| ECOB32F | L01 | WF10 |
| ECOB35F | L01 | WF9 |
| ECOB37S | L01 | WF9 |
| ECOB41F | L01 | MW11 |
| ECOB45F | L01 | MW12 |
| ECOB47S | L01 | WF11 |
| ECOB51S | L01 | MW[redacted]2 |
| ECOB61S | L01 | MW1 |
| ECOB62F | L01 | MW1 |
| ECOB66F | L01 | MW9 |
| ECOB68S | L01 | M3-5 |
| ECOB81Y | L01 | WF10 |
| ECOB82Y | L01 | WF1 |
| ECOC05S | L01 | W2-4 |
| ECOC07[redacted] | L01 | F9-11 |
| ECOC08S | L01 | F9-11 |
| ECOC11F | L01 | TBA |
| ECOC12S | L01 | TBA |
| ECOC13F | L01 | F3-5 |
| ECOC14S | L01 | F2-4 |
| ECOC15F | L01 | M3-5 |
| ECOC16S | L01 | M3-5 |

| | | |
|---|---|---|
| ECOC21F | L01 | F[redacted] 11-1 |
| ECOC22S | L01 | MWF12 |
| ECOC23F | L01 | W3-5 |
| ECOC24S | L01 | M3-5 |
| ENGA01Y | L01 | MWF12 |
| | L02 | MWF10 |
| | L03 | MWF11 |
| | L04 | MWF11 |
| | L05 | MWF12 |
| | L30 | W7-10E |
| ENGA02Y | L01 | MWF1 |
| ENGA08Y | L01 | TR1 |
| | T0001 | R2 |
| | T0002 | F11 |
| | T0003 | F11 |
| | T0004 | F1 |
| | T0005 | F1 |
| | T0006 | F2 |
| | T0007 | F2 |
| | T0008 | F10 |
| ENGB01Y | L01 | T2-4 |
| ENGB04Y | L01 | R3-5 |
| ENGB06Y | L01 | MWF11 |
| ENGB07Y | L01 | TR3 |
| | T0001 | M2 |
| | T0002 | M[redacted]4 |
| | T0003 | M3 |
| | T0004 | M3 |
| | T0005 | M4 |
| ENGB08Y | L30 | T7-10E |
| ENGB09Y | L01 | M3-5 |
| ENGB10Y | L01 | MW10 |
| | T0001 | M1 |
| | T0002 | M2 |
| | T0003 | M3 |
| ENGB14Y | L01 | WF11 |
| ENGB15Y | L01 | W2-4 |
| ENGB16Y | L30 | R7-9E |
| ENGB17Y | L01 | T4R3-5 |
| ENGB27Y | L01 | TR11 |
| ENGB31Y | L01 | MWF9 |
| ENGB33Y | L01 | MWF1 |
| ENGB95Y | L01 | M3-5W4 |
| ENGC05Y | L01 | W2-4 |
| ENGC08Y | L01 | R1-3 |
| ENGC14Y | L01 | TBA |
| ENGC15Y | L01 | TBA |
| ENGC40F | L01 | F2-4 |
| ENGC41F | L01 | T11-1 |
| ENGC42S | L01 | T11-1 |
| FARA10F | L30 | T7-9E |
| FARA11S | L01 | T2-4 |
| FARA12F | L01 | W2-4 |
| FARA13S | L30 | M7-10E |

| | | |
|---|---|---|
| FARA70F | L01 | W1-4 |
| | L30 | M7-10E |
| FARA71S | L01 | W1-4 |
| | L30 | M7-10E |
| FARA90Y | L01 | R9-12 |
| | L30 | W7-10E |
| FARB05S | L01 | R11-1 |
| FARB06F | L01 | R11-1 |
| FARB11F | L01 | T2-4 |
| FARB15F | L01 | R1-3 |
| FARB16Y | L01 | T9-11 |
| FARB30S | L30 | R7-9E |
| FARB46F | L30 | M7-9E |
| FARB47F | L30 | R7-9E |
| FARB54F | L01 | R3-5 |
| FARB60Y | L01 | T11-1 |
| FARB70F | L30 | T7-10E |
| FARB72F | L01 | M9-12 |
| FARB74S | L01 | M9-12 |
| FARB75Y | L01 | R12-3 |
| FARB80F | L01 | M1-4 |
| FARB81S | L01 | M1-4 |
| FARB82F | L01 | W9-12 |
| FARB83S | L01 | W9-12 |
| FARB90F | L01 | TBA |
| FARB91S | L01 | TBA |
| FARB92Y | L01 | T2-4 |
| FARC02F | L01 | TBA |
| FARC03S | L01 | TBA |
| FARC04Y | L01 | TBA |
| FARC14S | L01 | W2-4 |
| FARC15S | L01 | R3-5 |
| FARC21Y | L01 | TBA |
| FARC22Y | L01 | TBA |
| FARC24F | L01 | TBA |
| FARC25S | L01 | TBA |
| FARC90F | L01 | TBA |
| FARC91S | L01 | TBA |
| FREA06Y | L01 | M3-5WF4 |
| | L02 | TR11-1 |
| FREA16A | L01 | MTWF10-12 |
| FREA16Y | L01 | M3-5W2-4 |
| | L02 | TR11-1 |
| FREB02Y | L01 | MF2 |
| | L02 | TR9 |
| FREB06A | L01 | MWF9-11 |
| FREB06B | L01 | MWF10-12 |
| FREB06Y | L01 | MWF9 |
| | L02 | MWF9 |
| | L03 | MWF10 |
| | L04 | MWF11 |
| | L05 | MWF12 |
| | L06 | MWF1 |
| FREB16B | L01 | MWF9-11 |

| | | |
|---|---|---|
| FREB16Y | L01 | MWF9 |
| | L02 | MWF10 |
| | L30 | T7-10E |
| FREB17F | L01 | MWF3-5 |
| FREB17S | L01 | MWF3-5 |
| FREB24Y | L01 | TR10 |
| FREB26Y | L01 | MW12 |
| FREB38F | L01 | WF1 |
| FREB40F | L01 | TR1 |
| FREB41S | L01 | TR1 |
| FREB42F | L01 | WF2 |
| FREB43S | L01 | WF2 |
| FREB48Y | L01 | TR10 |
| | L02 | TR11 |
| FREB49Y | L30 | M7-9E |
| FREB80F | L01 | MW1 |
| FREC02F | L0I | TBA |
| FREC03S | L01 | TBA |
| FREC04F | L01 | TBA |
| FREC05S | L01 | TBA |
| FREC06Y | L01 | MWF10 |
| | L02 | MWF12 |
| FREC07S | L01 | TBA |
| FREC09Y | L01 | WF9 |
| FREC10S | L01 | MW1 |
| FREC25Y | L01 | WF11 |
| FREC33S | L01 | M3-5 |
| FREC39S | L01 | WF1 |
| FREC40Y | L01 | T2-4 |
| FREC90Y | L01 | TBA |
| GERA09H | L01 | MW2 |
| GERA10Y | L01 | MWF9F2 |
| GERB19Y | L01 | MWF1 |
| | L02 | MWF[illegible]1 |
| GERB20Y | L01 | MWF10 |
| | L02 | MWF12 |
| GERB24S | L01 | M3-5 |
| GERB50S | L01 | MWF10 |
| GERB63F | L01 | MWF10 |
| GERB70S | L01 | MWF11 |
| GERC10Y | L01 | MWF9 |
| GERC13Y | L01 | MWF11 |
| GERC30F | L01 | TBA |
| GERC33F | L01 | TBA |
| GERC36S | L01 | TBA |
| GERC40S | L01 | TBA |
| GERC43F | L01 | TBA |
| GERC46S | L01 | TBA |
| GERC48Y | L01 | TBA |

| | | |
|---|---|---|
| GGRA04Y | L01 | R9-11 |
| | P0001 | T1 |
| | P0002 | T2 |
| | P0003 | T3 |
| | P0004 | R1 |
| | P0005 | R2 |
| | P0006 | R3 |
| GGRA05Y | L01 | T9-11 |
| | P0001 | W11-1 |
| | P0002 | T11-1 |
| GGRB01Y | L01 | ~~W[illegible]~~ M1-3 |
| GGRB02Y | L01 | R11-1 |
| | P0001 | T4 |
| GGRB03Y | L01 | M[illegible]11-1 |
| | P0001 | M3-5 |
| GGRB05Y | L01 | T11-1 |
| ~~GGRB07Y~~ | ~~L01~~ | ~~R3-5~~ |
| | ~~P0001~~ | ~~W3-11~~ |
| GGRB13Y | L01 | R3-5 |
| GGRB17Y | L01 | R1-3 |
| GGRB19Y | L01 | T2-4 |
| | P0001 | M9-11 |
| GGRB24Y | L01 | W2-4 |
| | T0001 | W4 |
| GGRB25Y | L01 | [illegible]F9 |
| | P0001 | F10-12 |
| GGRB26Y | L01 | T9-11 |
| GGRB27F | L01 | MW12 |
| | T0001 | T1 |
| GGRB28S | L01 | MW12 |
| | T0001 | T1 |
| GGRB29Y | L01 | R9-11 |
| GGRC01Y | L01 | TBA |
| GGRC04F | L01 | R9-11 |
| GGRC12F | L01 | T11-1 |
| GGRC18F | L01 | MW10 |
| GGRC25S | L01 | T9-11 |
| | P0001 | W2-4 |
| GGRC28Y | L01 | R1-3 |
| | T0001 | F2-4 |
| GGRC29S | L01 | T9-11 |
| GGRC30F | L01 | [illegible]W[illegible]11-2 |
| GGRC31S | L01 | MW10 |
| GGRC33Y | L01 | W2-4 |
| ~~GGRC04S~~ | ~~L01~~ | ~~M2-5~~ |
| GLGA01Y | L01 | W2-4 |
| | P0001 | M11-1 |
| | P0002 | M1-3 |
| GLGA02S | L01 | R9-11 |
| GLGB01Y | L01 | F9-11 |
| | P0001 | F11-1 |
| | P0002 | F1-3 |
| GLGB02S | L01 | T11-1 |
| | P0001 | T4-6E |

| | | |
|---|---|---|
| GRHB01Y | L01 | MWF9 |
| GRHB03Y | L30 | W7-10E |
| | T3001 | W6E |
| GRHB24S | L01 | MWF1 |
| GRHB29Y | L01 | TR10 |
| GRKA01Y | L01 | MTWF10 |
| GRKA10F | L01 | MWF12 |
| GRKB01S | L01 | MWF12 |
| GRKB10Y | L01 | TR11-1 |
| GRKB22Y | L01 | T4R3-5 |
| GRKB30F | L01 | TBA |
| GRKB31F | L01 | TBA |
| GRKB32F | L01 | TBA |
| GRKB33F | L01 | TBA |
| GRKB34F | L01 | TBA |
| GRKB35S | L01 | TBA |
| GRKB36S | L01 | TBA |
| GRKB37S | L01 | TBA |
| GRKB38S | L01 | TBA |
| GRKB39S | L01 | TBA |
| GRKB40Y | L01 | TBA |
| HISA01Y | L01 | TR12 |
| | L30 | T7-9E |
| | T0001 | M11 |
| | T0002 | M11 |
| | T0003 | M12 |
| | T0004 | M12 |
| | T0005 | M2 |
| | T0006 | M2 |
| | T0007 | F12 |
| | T0008 | F12 |
| | T0009 | F2 |
| | T0010 | F2 |
| | T0011 | F3 |
| | T0012 | F3 |
| | T3001 | T6E |
| | T3002 | T9E |
| | T3003 | T10E |
| HISB02Y | L01 | MW9 |
| | T0001 | R3 |
| | T0002 | R1 |
| | T0003 | R2 |
| | T0004 | R2 |
| HISB03Y | L01 | MW12 |
| | T0001 | R10 |
| | T0002 | R10 |
| | T0003 | R11 |
| | T0004 | R11 |
| | T0005 | R1 |

| | | |
|---|---|---|
| HISB04Y | L01 | MW2 |
| | T0001 | T9 |
| | T0002 | T9 |
| | T0003 | T10 |
| | T0004 | T10 |
| | T0005 | T1 |
| | T0006 | T1 |
| HISB07Y | L01 | MW10 |
| | T0001 | F11 |
| | T0002 | F1 |
| | T0003 | F2 |
| HISB14S | L01 | T2-4 |
| | T0001 | R9 |
| | T0002 | R10 |
| HISB15Y | L01 | R3-5 |
| | T0001 | M3 |
| | T0002 | M4 |
| HISB16Y | L30 | M7-9E |
| | T3001 | M6E |
| | T3002 | M9E |
| HISB18Y | L01 | MW2 |
| | T0001 | R2 |
| | T0002 | R3 |
| HISB21F | L30 | R7-9E |
| HISB22S | L30 | R7-9E |
| HISB23Y | L01 | MW1 |
| | T0001 | R9 |
| | T0002 | R12 |
| | T0003 | R1 |
| HISB31Y | L01 | T11-1 |
| | T0001 | T2 |
| | T0002 | T4 |
| HISB36F | L01 | R9-11 |
| | T0001 | T2 |
| | T0002 | T4 |
| HISB42Y | L01 | MW10 |
| | T0001 | T[illegible]3 |
| | T0002 | T[illegible]4 |
| HISB43Y | L01 | MW11 |
| | T0001 | W3 |
| | T0002 | W4 |
| HISB46Y | L01 | T2-4 |
| | T0001 | W11 |
| | T0002 | W12 |
| HISB61Y | L01 | T9-11 |
| | T0001 | W11 |
| HISC01F | L01 | TBA |
| HISC02S | L01 | TBA |
| HISC03Y | L01 | TBA |
| HISC20H | L30 | M7-9E |
| HISC21Y | L01 | R11-1 |
| HISC32Y | L01 | M3-5 |
| HISC35S | L01 | R9-11 |
| HISC41F | L30 | W7-9E |

| | | |
|---|---|---|
| HUMA01Y | L01 | M3-5 |
| | T0001 | T12 |
| | T0002 | W4 |
| | T0003 | R9 |
| | T0004 | R1 |
| HUMA11Y | L01 | WF9 |
| HUMB13Y | L01 | T2-4 |
| HUMB14Y | L30 | M7-9E |
| HUMB17Y | L01 | R11-1 |
| HUMB19F | L01 | W2-4 |
| HUMB21S | L01 | T11-1 |
| HUMB23S | L01 | MW12 |
| HUMB25F | L01 | MW12 |
| HUMB26Y | L01 | W2-4 |
| HUMB27S | L01 | M3-5W3 |
| HUMB28Y | L30 | R7-9E |
| HUMB36Y | L01 | M2W2-4 |
| HUMB39F | L01 | MWF11 |
| HUMB45S | L01 | R1-3 |
| HUMB64Y | L01 | W2-4 |
| HUMB70Y | L01 | M3-5 |
| | T0001 | M1 |
| | T0002 | M2 |
| HUMB80Y | L30 | M7-9E |
| HUMC10H | L01 | TBA |
| HUMC95Y | L01 | TBA |
| HUMC99Y | L01 | TBA |
| ITAA01Y | L01 | MWF10 |
| ITAA02H | L01 | MW11 |
| ITAA03S | L01 | MWF12 |
| ITAA11Y | L01 | MWF10 |
| ITAB01Y | L01 | MWF11 |
| ITAB03F | L01 | MWF1 |
| ITAB06S | L01 | MWF1 |
| ITAB11Y | L01 | MWF11 |
| ITAB22F | L01 | M2W2-4 |
| ITAB23S | L01 | M2W2-4 |
| ITAB27S | L01 | MWF9 |
| ITAB32S | L01 | M3-5W4 |
| ITAB35F | L01 | M3-5W4 |
| ITAB45F | L01 | MWF12 |
| ITAC01Y | L01 | MWF10 |
| ITAC50F | L01 | TBA |
| ITAC52F | L01 | TBA |
| ITAC53F | L01 | TBA |
| ITAC54F | L01 | TBA |
| ITAC55S | L01 | TBA |
| ITAC56S | L01 | TBA |
| ITAC57S | L01 | TBA |
| ITAC58S | L01 | TBA |
| ITAC59S | L01 | TBA |
| ITAC60Y | L01 | TBA |
| JBCB35Y | L01 | TR12 |
| JBCB36H | L01 | M4 |
| | P0001 | R2-5 |

| | | |
|---|---|---|
| JCEB54S | L30 | T7-10E |
| JCEB72F | L01 | M3W3-5 |
| JCEB73S | L01 | M3W3-5 |
| JCEC02Y | L01 | T2-4 |
| | L30 | T7-10E |
| JCEC40S | L01 | MW11 |
| JCSB27Y | L01 | TR10 |
| | L30 | M7-10E |
| JHGB52F | L01 | M3-5 |
| JHIB71F | L30 | M7-10E |
| JHSA01Y | L01 | T1R1-3 |
| JLPB55F | L01 | ~~MWF12~~ T2-4, R3 |
| JMCC32F | L01 | MWF9 |
| JMCC51S | L01 | MWF9 |
| JMPB50F | L01 | MWF11 |
| JMPC51S | L01 | MWF11 |
| JPMC42S | L01 | T3F10 |
| JSDB24F | L01 | W2-4 |
| LATA01Y | L01 | MTWF1 |
| LATA10F | L01 | MWF9 |
| LATB01S | L01 | MWF9 |
| LATB30F | L01 | TBA |
| LATB31F | L01 | TBA |
| LATB32F | L01 | TBA |
| LATB33F | L01 | TBA |
| LATB34F | L01 | TBA |
| LATB35S | L01 | TBA |
| LATB36S | L01 | TBA |
| LATB37S | L01 | TBA |
| LATB38S | L01 | TBA |
| LATB39S | L01 | TBA |
| LATB40Y | L01 | TBA |
| LINA01Y | L01 | MWF9 |
| | L02 | MWF1 |
| LINA04F | L01 | MWF9 |
| LINA04S | L01 | MWF12 |
| LINB02S | L01 | MWF10 |
| LINB04S | L01 | MWF9 |
| LINB09F | L01 | MWF10 |
| LINB11Y | L01 | MW4, F2-4 |
| LINB15S | L01 | ~~MWF11~~ T2-4, R3 |
| LINB25F | L30 | ~~MWF11~~ T7-10E |
| LINB26S | L30 | M7-9E |
| LINB27F | L01 | MW2 |
| | T0001 | W3 |
| LINC01F | L01 | TBA |
| LINC02S | L01 | TBA |
| LINC03F | L01 | TBA |
| LINC04S | L01 | TBA |
| LINC05Y | L01 | TBA |
| LINC21Y | L01 | MWF1 |

| | | |
|---|---|---|
| MATA22Y | L01 | MF10 |
| | T0001 | T9-11 |
| | T0002 | T3-5 |
| | T0003 | W9-11 |
| | T0004 | W3-5 |
| | T0005 | R9-11 |
| | T0006 | R3-5 |
| MATA26Y | L01 | MF9 |
| | L02 | MF10 |
| | T0001 | M11-1 |
| | T0002 | M3-5 |
| | T0003 | T9-11 |
| | T0004 | T1-3 |
| | T0005 | W9-11 |
| | T0006 | W3-5 |
| | T0007 | R9-11 |
| | T0008 | R3-5 |
| | T0009 | F11-1 |
| | T0010 | F2-4 |
| MATA27Y | L01 | MF9 |
| | L02 | MF10 |
| | T0001 | M11-1 |
| | T0002 | M3-5 |
| | T0003 | T9-11 |
| | T0004 | T1-3 |
| | T0005 | W9-11 |
| | T0006 | W3-5 |
| | T0007 | R9-11 |
| | T0008 | R3-5 |
| | T0009 | F11-1 |
| | T0010 | F2-4 |
| MATA40F | L01 | TR9 |
| | L02 | TR10 |
| | T0001 | M3-5 |
| | T0002 | T12-2 |
| | T0003 | W9-11 |
| | T0004 | W3-5 |
| | T0005 | R11-1 |
| | T0006 | R3-5 |
| | T0007 | F11-1 |
| | T0008 | F1-3 |
| MATA45S | L01 | TR9 |
| | T0001 | M3-5 |
| | T0002 | T12-2 |
| | T0003 | W9-11 |
| | T0004 | W3-5 |
| | T0005 | R11-1 |
| | T0006 | R3-5 |
| | T0007 | F11-1 |
| | T0008 | F1-3 |
| MATA55Y | L01 | MF9 |
| | T0001 | T3-5 |
| | T0002 | R11-1 |
| | T0003 | R3-5 |
| MATB25Y | L01 | M3R3-5 |

| | | |
|---|---|---|
| MATB41F | L01 | MF1 |
| | T0001 | M2-4 |
| | T0002 | T9-11 |
| | T0003 | F10-12 |
| | T0004 | R9-11 |
| | T0005 | R1-3 |
| | T0006 | M9-11 |
| | T0007 | F3-5 |
| MATB42S | L01 | MF1 |
| | T0001 | T9-11 |
| | T0002 | R9-11 |
| | T0003 | R3-5 |
| | T0004 | F3-5 |
| MATB43S | L01 | MWF11 |
| MATB44F | L01 | M2W2-4 |
| MATB49S | L01 | M2W2-4 |
| MATB50F | L01 | T9R9-11 |
| MATB55S | L01 | T9R9-11 |
| MATB70S | L01 | ~~T14R1-7~~ M12, F10-12 |
| MATC51F | L01 | ~~T11R1-8~~ M10-12, F4 |
| | T0001 | R11 |
| MATC53Y | L01 | MWF2 |
| | T0001 | T10 |
| MATC56S | L01 | ~~T11R1-8~~ M10-12, F4 |
| | T0001 | R11 |
| MATC60F | L01 | ~~T12R3-5~~ M3, R3-5 |
| MUSA01Y | L01 | T1R1-3 |
| MUSB04F | L01 | TR10 |
| MUSB05S | L01 | MW11 |
| MUSB09H | L01 | TBA |
| MUSB10H | L01 | TBA |
| MUSB17H | L01 | W2-4 |
| MUSB18S | L01 | TR10 |
| NSCA02Y | L30 | T7-10E |
| PHLA01Y | L01 | MWF10 |
| | L02 | MWF11 |
| | L03 | MWF12 |
| | L30 | T7-10E |
| PHLB01F | L01 | T1R1-3 |
| PHLB03F | L01 | MWF9 |
| PHLB04S | L01 | MWF9 |
| PHLB05F | L01 | T9-11 |
| PHLB11F | L01 | MWF12 |
| PHLB12F | L30 | M7-10E |
| PHLB15S | L01 | MWF1 |
| PHLB17S | L30 | M7-10E |
| PHLB20F | L01 | T4R3-5 |
| PHLB42F | L01 | T11-1R11 |
| PHLB43S | L01 | T11-1R11 |
| PHLB44F | L30 | W7-10E |
| PHLB46F | L01 | MWF10 |
| PHLB47S | L01 | MWF10 |
| PHLB60S | L30 | W7-10E |

| | | |
|---|---|---|
| PHLB65S | L01 | MWF1 |
| PHLB61S | L01 | M2W2-4 |
| PHLB70F | L01 | MWF1 |
| PHLB71F | L01 | T2-4 |
| PHLB81S | L01 | T4R3-5 |
| PHLC02S | L01 | T1R1-3 |
| PHLC11S | L01 | MWF12 |
| PHLC71S | L01 | T2-4 |
| PHYA03Y | L01 | T11F2 |
| | L02 | T12F3 |
| | P0001 | T2-5 |
| | P0002 | W2-5 |
| | T0001 | T9 |
| | T0002 | T10 |
| | T0003 | W12 |
| | T0004 | W1 |
| ~~PHYA09Y~~ | ~~L01~~ | ~~T11F3~~ |
| | ~~P0001~~ | ~~M2-5~~ |
| | ~~P0002~~ | ~~R9-12~~ |
| | ~~P0003~~ | ~~F12-3~~ |
| | ~~T0001~~ | ~~T1~~ |
| | ~~T0002~~ | ~~T2~~ |
| | ~~T0003~~ | ~~T3~~ |
| | ~~T0004~~ | ~~T4~~ |
| | T0005 | ~~W12~~ T1 |
| | T0006 | ~~W1~~ T2 |
| PHYB01S | L01 | T2F9 |
| | T0001 | F2 |
| PHYB03F | L01 | T2F9 |
| | T0001 | F2 |
| PHYB04F | L01 | TF10 |
| | T0001 | F3 |
| PHYB08H | L01 | W9-3 |
| PHYB09S | L01 | M3-5W3 |
| PHYB13Y | L01 | T4F1 |
| | T0001 | F4 |
| PHYB17S | L01 | T12F3 |
| | T0001 | F10 |
| PHYB18F | L01 | T3F11 |
| | T0001 | F4 |
| PHYC01F | L01 | T9F3 |
| | T0001 | T4 |
| PHYC03Y | L01 | TF1 |
| | T0001 | F12 |
| PHYC05H | L01 | W9-3 |
| PHYC06S | L01 | ~~T3F11~~ T4, F11 |
| POLA01Y | L01 | TR2 |
| | T0001 | T9 |
| | T0002 | T10 |
| | T0003 | T12 |
| | T0004 | T1 |
| | T0005 | T3 |
| | T0006 | F11 |
| | T0007 | F12 |
| | T0008 | F1 |
| | | L30 W7-10E |

P0003 M2-5
P0004 R9-12
P0005 F12-3
T0007 T3
T0008 T4

| | | |
|---|---|---|
| POLB50Y | L01 | MW3 |
| | T0001 | M4 |
| | T0002 | W4 |
| | T0003 | W11 |
| POLB51S | L01 | F11-1 |
| POLB53Y | L01 | MW10 |
| POLB54S | L01 | F2-4 |
| POLB60Y | L30 | M7-10E |
| POLB65Y | L30 | R7-10E |
| POLB66Y | L01 | R9-11 |
| POLB70Y | L01 | M3-5 |
| | T0001 | F12 |
| POLB71Y | L01 | TR2 |
| | T0001 | T3 |
| | T0002 | R3 |
| POLB80Y | L01 | R11-1 |
| POLB81F | L01 | ~~T11-1~~ T2-4 |
| POLB82Y | L01 | F2-4 |
| POLB86Y | L30 | T7-10E |
| POLB87Y | L01 | T11-1 |
| ~~POLB88Y~~ | ~~L01~~ | ~~T9-11~~ |
| POLB91Y | L01 | M2W2-4 |
| POLB93Y | L01 | F2-4 |
| POLC50Y | L30 | W7-10E |
| POLC60F | L01 | ~~T11-1~~ T9-11 |
| POLC61S | L01 | ~~T11-1~~ T9-11 |
| POLC70Y | L01 | R11-1 |
| POLC71Y | L01 | ~~T9-11~~ T11-1 |
| POLC98F | L01 | TBA |
| POLC99S | L01 | TBA |
| PSYA01Y | L01 | MWF9 |
| | L02 | MWF10 |
| | L03 | T1R1-3 |
| | L30 | W7-10E |
| | P0001 | T9-11 |
| | P0002 | T11-1 |
| | P0003 | W10-12 |
| | P0004 | W12-2 |
| | P0005 | R10-12 |
| | P0006 | R12-2 |
| | P0007 | F11-1 |
| | P3001 | T7-9E |
| | P3002 | W5-7E |
| PSYB07F | L01 | T1R1-3F1 |
| | T0001 | W9 |
| | T0002 | W11 |
| | T0003 | W1 |
| | T0004 | W2 |
| | T0005 | W4 |
| | T0006 | W12 |
| PSYB07S | L30 | T7-10E |
| | T3001 | TBA |
| PSYB08S | L01 | MWF10 |
| | T0001 | R9 |
| | T0002 | R10 |

| | | |
|---|---|---|
| PSYB09S | L01 | T9-11 |
| | P0001 | M2-5 |
| | P0002 | T2-5 |
| | P0003 | F9-12 |
| PSYB10F | L30 | T7-10E |
| | T3001 | M4 |
| | T3002 | T10 |
| | T3003 | W4 |
| | T3004 | R2 |
| | T3005 | T6E |
| | T3006 | T6E |
| | T3007 | T9E |
| | T3008 | T9E |
| PSYB10S | L01 | MW2 |
| | T0001 | M11 |
| | T0002 | M12 |
| | T0003 | T12 |
| | T0004 | T2 |
| | T0005 | W10 |
| | T0006 | W12 |
| | T0007 | W1 |
| | T0008 | W3 |
| | T0009 | F11 |
| | T0010 | F9 |
| PSYB11F | L01 | T11-1 |
| PSYB12S | L30 | M7-10E |
| PSYB20F | L01 | R9-11 |
| | T0001 | M12 |
| | T0002 | T12 |
| | T0003 | T2 |
| | T0004 | W12 |
| | T0005 | R11 |
| | T0006 | R1 |
| | T0007 | R3 |
| | T0008 | R4 |
| PSYB30F | L01 | T4R3-5 |
| PSYB32F | L30 | W7-10E |
| PSYB32S | L30 | R7-10E |
| PSYB33S | L01 | T11R11-1 |
| | T0001 | M9 |
| | T0002 | T9 |
| PSYB40F | L01 | T9-11 |
| | P0001 | T2-5 |
| | P0002 | R2-5 |
| PSYB45F | L01 | T11-1R12 |
| PSYB50F | L30 | R7-10E |
| PSYB51F | L01 | MW10 |
| | T0001 | T4 |
| | T0002 | R9 |
| | T0003 | R3 |
| PSYB52S | L30 | ~~M11-1F2~~ M7-10E |
| PSYB57S | L01 | T1R1-3 |
| PSYB60F | L01 | MWF10 |
| | T0001 | T2 |
| | T0002 | T4 |
| | T0003 | F2 |

| | | |
|---|---|---|
| PSYB61S | L01 | MWF10 |
| PSYB62Y | L01 | M11-1 |
| | P0001 | W2-5 |
| PSYB65S | L30 | W7-10E |
| PSYC15F | L01 | T2-4 |
| PSYC20F | L01 | W11-1 |
| PSYC22S | L01 | T11-1 |
| PSYC30S | L01 | W2-4 |
| PSYC32S | L01 | R3-5 |
| PSYC41F | L01 | R9-11 |
| PSYC53F | L30 | M7-10E |
| PSYC54S | L01 | R11-1 |
| PSYC66S | L01 | R9-11 |
| PSYC85F | L01 | M11-1F11 |
| PSYC90-93S | L01 | TBA |
| PSYC98Y | L01 | M1-3 |
| QUAA03Y | L01 | M3-5 |
| RUSA01F | L01 | R3-5 |
| RUSA10Y | L01 | TR11-1 |
| | P0001 | T1 |
| RUSB02Y | L01 | TR9-11 |
| RUSB21Y | L01 | R1-3 |
| RUSC02F | L01 | TBA |
| RUSC03S | L01 | TBA |
| RUSC04H | L01 | TBA |
| RUSC05Y | L01 | TBA |
| SOCA01Y | L01 | MW3 |
| | L02 | T4R3-5 |
| | L30 | T7-10E |
| | T0101 | T11 |
| | T0102 | T12 |
| | T0103 | W1 |
| | T0104 | W2 |
| | T0105 | W4 |
| | T0106 | T10 |
| SOCB01Y | L30 | R7-10E |
| SOCB02Y | L01 | MW11 |
| SOCB03Y | L01 | M2W2-4 |
| SOCB04Y | L01 | TR12 |
| SOCB05Y | L01 | TR11 |
| SOCB06F | L30 | T7-10E |
| SOCB07Y | L01 | R1-3 |
| SOCB08S | L30 | W7-10E |
| SOCB09F | L30 | W7-10E |
| SOCB11Y | L01 | T11-1 |
| | T0001 | T4 |
| SOCB13Y | L30 | R7-10E |
| SOCB14Y | L01 | T2-4R2 |
| SOCB15Y | L01 | MW10 |
| SOCB17S | L01 | T2-4 |
| SOCB18Y | L01 | TR2 |
| | T0001 | F11 |
| SOCB19Y | L01 | T11R11-1 |

| | | |
|---|---|---|
| SOCB20Y | ~~L01~~ | ~~TWF1~~ |
| | L30 | M7-10E |
| SOCB24F | L01 | T2-4 |
| SOCB25S | L01 | T2-4 |
| SOCC04S | L01 | M3-5 |
| SOCC05Y | L30 | W7-9E |
| SOCC06F | L01 | TR9 |
| SOCC07S | L01 | TR9 |
| SOCC10F | L01 | T2-4 |
| SOCC11S | L30 | T7-10E |
| SOCC13S | L01 | MW12 |
| SOCC17F | L01 | MW12 |
| SOCC19F | L01 | M3-5 |
| SOCC21S | L01 | R1-3 |
| SOCC22S | L01 | F1-3 |
| SOCC24F | L01 | F2-4 |
| SOCC26F | L01 | R1-3 |
| SOCC28F | L30 | M7-10E |
| SOCC40F | L01 | TBA |
| SOCC41S | L01 | TBA |
| SOCC43F | L01 | TR3 |
| SOCC43S | L01 | TR3 |
| SOSB01S | L01 | W3-5 |
| SPAA01Y | L01 | ~~MWF9~~ M2 |
| | L02 | ~~MWF9~~ W4 |
| SPAB01Y | L01 | MWF11 |
| | L02 | MWF11 |
| SPAB03F | L01 | R11-1 |
| SPAB04F | L01 | MWF12 |
| | P0001 | F2 |
| SPAA02H | L01 | W2-4 |
| | L02 | M3-5 |
| SOC C305 | L01 | R1-3 |

| | | |
|---|---|---|
| SPAB12S | L01 | MWF12 |
| SPAB17F | L01 | R1-3 |
| SPAB18Y | L01 | MWF1 |
| SPAB21S | L01 | ~~R11-1~~ |
| SPAB27S | L01 | W2-4 |
| SPAB35F | L01 | T11-1 |
| SPAC01Y | L01 | MWF10 |
| SPAC02F | L01 | TBA |
| SPAC03F | L01 | TBA |
| SPAC04F | L01 | TBA |
| SPAC05F | L01 | TBA |
| SPAC06F | L01 | TBA |
| SPAC07S | L01 | TBA |
| SPAC08S | L01 | TBA |
| SPAC09S | L01 | TBA |
| SPAC10S | L01 | TBA |
| SPAC11Y | L01 | TBA |
| STAB52F | L01 | TR1 |
| | T0001 | T9-11 |
| | T0002 | W9-11 |
| | T0003 | R9-11 |
| | T0004 | R3-5 |
| | T0005 | F1-3 |
| STAB57S | L01 | TR1 |
| | T0001 | T9-11 |
| | T0002 | W9-11 |
| | T0003 | R9-11 |
| | T0004 | R3-5 |
| STAC42F | L01 | T9-11R10 |
| STAC67S | L01 | T9-11R10 |

SPAA01Y T0001 T-11-1
T0002 T2-4
T0201 R 1-3
T0202 R3-5

## Officers of the University of Toronto 1981-1982

**Chancellor**
Dr. George Ignatieff, C.C., B.A., M.A., LL.D., D.C.L.
**President**
Dr. James M. Ham, O.C., B.A.SC., S.M., SC.D.
**Chairman, Governing Council**
Mr. Terence A. Wardrop, Q.C., B.A.
**Vice-President and Provost**
D.W. Strangway, M.A., PH.D., F.R.S.C.
**Vice-Provost**
E. Kingstone, B.SC., M.D., C.M.
**Vice-Provost**
R.W. Missen, M.SC., PH.D., F.C.I.C.
**Vice-Provost**
W.G. Saywell, B.A., M.A., PH.D.
**Vice-President (Research and Planning) and Registrar**
H.C. Eastman, A.M., PH.D., F.R.S.C.
**Vice-President, Business Affairs**
A.G. Rankin, B.COM., F.C.A.
**Vice-President, Personnel and Student Affairs**
W.E. Alexander, B.S.P., M.SC., PH.D.
**Vice-President, Institutional Relations**
D.G. Ivey, B.A., M.A., PH.D.
**University Ombudsman**
E.A. McKee, M.A.
**Chief Librarian**
R. Blackburn, M.A., B.L.S., M.S., LL.D.
**Secretary of the Governing Council**
D.S. Claringbold
**Director of Admisssions**
W. Kent, M.A.
**Director of Student Awards**
P.S. Phillips, B.A., C.A.
**Director of Student Record Services**
M.S. Lippard, B.A., M.A.
**Warden of Hart House**
R.M.H. Alway, B.A., M.A., PHIL.M.
**Coordinator of Campus Services**
H.L. Reimer, B.A., B.PAED.

## Administration and Faculty of Scarborough College

**Principal**
J.E. Foley, B.A., PH.D.

*Assistant to the Principal*
C. Caton, B.A., M.SC.

**Associate Dean**
T.T. Tidwell, B.S., PH.D.
**Dean of Students in Residence**
I.M. Campbell, B.SC., M.A., PH.D.

**Chairman, Division of Humanities**
P.W. Gooch, M.A., PH.D.
*Associate Chairman*
J.N. Grant, M.A., PH.D.
*Administrative Assistant*
A.P. Western

**Chairman, Division of Life Science**
G.R. Williams, B.SC., PH.D., D.SC., F.R.S.C.

**Chairman, Division of Physical Sciences**
J.E. Dove, B.SC., M.A., PH.D.
*Associate Chairman*
J.S. Halperin M.Sc., PH.D.
*Administrative Assistant*
J. Norman

**Chairman, Division of Social Science**

*Administrative Assistant*
M. Kimmerly

**Registrar**
G.E.L. Curri
*Associate Registrar*
N.H. Dobbs, B.A.
*Assistant Registrar*
M. Gerrard
*Administrative Assistant*
L. Pearson
*Admissions/Liaison Counsellor*
M.V. Choy, B.A., M.A.

**Manager of Business Services**
J.F. Brook
*Administrative Assistant, Personnel*
J.P. Hope
*Administrative Assistant, Accounts*
G. Tapper
*Administrative Assistant, Residences*
N. Sonstenes

## DIVISION OF HUMANITIES

**Librarian**
J.L. Ball, M.A., M.L.S., DIP.LIB, A.L.A.
*Coordinator, Collection Management*
M. Wiederkehr, M.L.S.
*Coordinator, Public Services*
P. Yamamoto, B.A., M.S. IN L.S.
*Coordinator, Special Collections*
L. Le, B.A., M.L.N.
*Head, Reference Services*
J. Mendelsohn, B.A., DIP. ED., DIP. LIB.
*Reference and Orientation Librarian*
M. Miller, B.A., M.L.S.

*Head, Scarborough-Erindale Technical Services*
A. Gregorovich, B.A., B.L.S.

**Coordinator, Special Programmes**
A.J.G. Patenall, M.A., PH.D.

**Director of Writing Laboratory**
B. Corben, M.A.

**Co-director of the Writing Laboratory and Director of the English Proficiency Programme**
A. Fisher, B.A., M.A., PH.D.

**Director of Athletics**
T. Pallandi, B.PH.E., B.A., M.S.
*Assistant Director of Athletics*
J. Laaniste, B.SC., B.ED.
*Assistant Director of Athletics*
M.A. Pilskalnietis, B.PH.E.

**Physician**
T.W. Fox, B.A., M.D., F.R.C.P.C

**Physician**
A.M. Breuls, M.D.

**Psychiatrist**
Taylor Statten, M.D., F.R.C.P.C

**Manager of Physical Services**
G.A. FitzGerald

**Classics**
J.N. Grant, M.A. (Edinburgh), Ph.D. (St. Andrews), *Professor*
A. Boddington, B.A. (Oxon), *Associate Professor*
J.H. Corbett, M.A., Ph.D. (Toronto), *Associate Professor*
M.E. Irwin, M.A., Ph.D. (Toronto), *Associate Professor*
I.R. McDonald, B.A. (Alberta), Ph.D. (N. Carolina), *Associate Professor*
J.R. Warden, M.A. (Cambridge), *Associate Professor*
G. Papadatos, B.A. (Athens), *Tutor*

**Drama**
M.Q. Schonberg, M.A., Ph.D. (Toronto), *Associate Professor*
L.L. Browne, M.A., Phil.M. (Toronto), *Lecturer*

**English**
W.J. Howard, M.A., S.T.B. (Toronto), Ph.D. (Leeds), *Professor*
J.M.R. Margeson, M.A., Ph.D. (Toronto), *Professor*
R.M. Brown, M.A., Ph.D. (New York), *Associate Professor*
M.C. Creelman, M.A., Ph.D. (Toronto), *Associate Professor*
H. Jackson, M.A., Ph.D. (Toronto), *Associate Professor*
J. Kay, M.A. (Glasgow), M.A., Ph.D. (Pennsylvania), *Associate Professor*
S.M. Namjoshi, M.A. (Poona), M.S. (Missouri), Ph.D. (McGill), *Associate Professor*
A.J.G. Patenall, M.A. (McGill), Ph.D. (Birmingham), *Associate Professor*
M.S. Tait, M.A., Ph.D. (Toronto), *Associate Professor*
A.C. Thomas, M.A., Ph.D. (Toronto), *Associate Professor*
E.P. Vicari, M.A., Ph.D. (Toronto), *Associate Professor*
K. Theil, M.A., Ph.D. (Yale), *Assistant Professor*

**Fine Art**
G. Scavizzi, M.A., Ph.D. (Turin), *Professor*
M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), *Associate Professor*
M.C. Shaw, M.A., Ph.D. (Bryn Mawr College), *Associate Professor*
R. Siebelhoff, M.A., Ph.D. (Toronto), *Associate Professor*
L. Carney, M.A. (New York), *Assistant Professor*
D. Holman, B.F.A. (Kansas City Art Inst.), *Senior Tutor*
B. Hall, B.F.A. (Chicago), *Tutor*
J. Hoogstraten, B.F.A. (Manitoba), *Tutor*

**French**
G.F.R. Trembley, L.ès L., (Montpellier), Ph.D. (Yale), *Professor*
W.J. Bancroft, M.A. (Manitoba), Ph.D. (Harvard), *Associate Professor*
C.B. Bertrand-Jennings, L.ès L. (Paris), Ph.D. (Wayne State), *Associate Professor*
J.A. Curtis, M.A., M.Phil. (Toronto), *Associate Professor*
L.E. Doucette, B.A. (London), Ph.D. (Brown), *Associate Professor*
W.J. Kirkness, M.A. (Auckland), Ph.D. (de Besançon), *Associate Professor*
L.B. Mignault, B.A. (Toledo), Ph.D. (Colorado), *Associate Professor*
S. Mittler, M.A. (Toronto), Ph.D. (Strasburg), *Associate Professor*
P.C. Moes, M.A., B.L.S., Ph.D. (Toronto), *Associate Professor*
C. Evans, M.A. (Rochester), Ph.D. (Toronto), *Tutor*
F. Mugnier, M.A. (Lyon), *Tutor*

**German**
H. Ohlendorf, A.M., Ph.D. (Stanford), *Associate Professor*
H. Wittmann, M.A., (Göttingen), Ph.D. (Mass.), *Associate Professor*
U. Sherman, M.A., Ph.D. (Penn.), *Senior Tutor*

**History**
M. Eksteins, B.A. (Toronto), B.Phil., D.Phil. (Oxford), *Professor*
J.S. Moir, M.A., Ph.D. (Toronto), D.D. (Presb. College, Montreal), *Professor*
W.M. Dick, M.A. (Oregon), Ph.D. (Toronto), *Associate Professor*
E.W. Dowler, M.A. (Harvard), Ph.D. (London School of Economics), *Associate Professor*
M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), *Associate Professor*
J.P.B. Kenyon, M.A., Ph.D. (Toronto), *Associate Professor*
J.L. Pearl, M.A., Ph.D. (Northwestern), *Associate Professor*
I.R. Robertson, M.A. (McGill), Ph.D. (Toronto), *Associate Professor*
A.N. Sheps, M.A., Ph.D. (Toronto), *Associate Professor*
J.L. Abray, M.A. (McMaster), M.Phil., Ph.D. (Yale), *Assistant Professor*

**Humanities**
G.P. Richardson, B.Arch., B.D. (Toronto), Ph.D. (Cambridge), *Professor*

**Italian**
A. Franceschetti, Dott. in Lett. (Padua), Ph.D. (Columbia), *Professor*
S. Mittler, M.A. (Toronto), Ph.D. (Strasburg), *Associate Professor*
D. McAuliffe, A.B. (St. Peter's, Milan), Ph.D. (New York), *Assistant Professor*
G. Katz, M.A., Ph.D. (Toronto), *Senior Tutor*

**Linguistics**
R.I. Binnick, M.A., Ph.D. (Chicago), *Professor*
D.M. James, M.A. (Cornell), Ph.D. (Michigan), *Associate Professor*
S. Whalen, M.A., Ph.D. (Toronto), *Associate Professor*
J.D. Woods, B.A. (Bowdoin Col.), Ph.D. (Mass.), *Associate Professor*

**Music**
T.J. McGee, M.A. (Connecticut), Ph.D. (Yale), *Associate Professor*
J. Mayo, G.T.C.L. (Trin. Coll. London) M.A., Ph.D. (Toronto), *Assistant Professor*
C.K. Walter, B.Ed., Mus.M. (Toronto), *Instructor*

**Philosophy**
J.H. Sobel, M.A. (Iowa State), Ph.D. (Michigan), *Professor*
A. Gombay, M.A. (McGill), B.Phil. (Oxon), *Associate Professor*
P.W. Gooch, M.A., Ph.D. (Toronto), *Associate Professor*
W.C. Graham, M.A., Ph.D. (Toronto), *Associate Professor*
D.L. Mosher, B.A., Ph.D. (Texas), *Associate Professor*
G.P. Nagel, B.A., M.A. (Simon Fraser), Ph.D. (Cantab.), *Associate Professor*
R.P. Thompson, M.A., Ph.D. (Toronto), *Assistant Professor*

**Russian**
N. Kosachov, M.A., Ph.D. (Ottawa), *Associate Professor*
C.V. Ponomareff, M.A., Ph.D. (Toronto), *Associate Professor*
S. Whalen, M.A., Ph.D. (Toronto), *Associate Professor*

**Spanish**
P.R. León, M.A., Ph.D. (Cornell), *Professor*
R.J. Barta, M.A., Ph.D. (Minn.), *Associate Professor*
J.I. Chicoy-Dabán, M.A. (Marquette), Ph.D. (Toronto), *Associate Professor*
R. Skyrme, M.A., (Michigan), M.Litt. (Bristol), Ph.D. (Toronto), *Associate Professor*
K. Godde-Nijhowne, B.A. (McGill), M.A. (N.Y.), Ph.D. (Toronto), *Tutor*

## DIVISION OF LIFE SCIENCES

### Biology
F.A. Urquhart, B.A., M.A., Ph.D. (Toronto), *Professor Emeritus*
C. Nalewajko (Sparling), B.Sc., Ph.D. (Univ. College London), *Professor*
J.C. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), *Professor*
A.H. Weatherley, B.Sc. (Sydney), M.Sc. (Tas), Ph.D. (Glas), *Professor*
G.R. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), F.R.S.C., *Professor*
I.R. Brown, B.Sc. (Carleton), Ph.D. (Texas), *Associate Professor*
I.M. Campbell, B.Sc. (Alberta), M.A., Ph.D. (Toronto), *Associate Professor*
R.E. Dengler, B.Sc., Ph.D. (UCD), *Associate Professor*
M.F. Filosa, B.S. (St. Peter's), M.S. (Fordham), Ph.D. (Princeton), *Associate Professor*
C.K. Govind, B.Sc. (Rhodes), M.Sc. (Natal), Ph.D. (Manitoba), *Associate Professor*
J.W. Gurd, B.A. (Mnt. All), Ph.D. (McGill), *Associate Professor*
G.F. Israelstam, B.Sc. (Witwatersrand), Ph.D. (Univ. College London), *Associate Professor*
J.H. Youson, B.A. (Victoria), M.Sc. (McGill), Ph.D. (Western), *Associate Professor*
R. Boonstra, B.Sc. (Calgary), Ph.D. (B.C.), *Assistant Professor*
J. Silver, B.Sc., Ph.D. (CUNY), *Assistant Professor*
D.D. Williams, B.Sc. (Univ. Coll. N. Wales), Dip.Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), *Assistant Professor*
C. Pickett, B.Sc., M.A. (Toronto), *Senior Tutor*
S. Mahon, B.Sc. (Ottawa), M.Sc. (Guelph), *Tutor*
C. Ng, B.Sc., M.Sc. (Hong Kong), *Instructor*

### Psychology
G.B. Biederman, B.Sc. (CUNY), Ph.D. (NYU), *Professor*
J.E. Foley, B.A., Ph.D. (Syd.), *Professor*
B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), *Professor*
M.C. Smith, B.A. (Toronto), Ph.D. (MIT), *Professor*
G.C. Cupchik, B.A. (Mich.), M.A., Ph.D. (Wisc.), *Associate Professor*
K.K. Dion, B.A. (Wellesley), Ph.D. (Minn.), *Associate Professor*
J.M. Kennedy, B.Sc., M.Sc. (Belf.), Ph.D. (Cornell), *Associate Professor*
A. Kukla, A.B., M.A., Ph.D. (UCLA), *Associate Professor*
N.W. Milgram, B.A. (U.Cal.), M.A., Ph.D. (McGill), *Associate Professor*
J.D. Pauker, B.A. (CUNY), M.S. (Purdue), Ph.D. (Wash.U.), *Associate Professor*
T.L. Petit, B.S., M.A. (Louisiana), Ph.D. (Florida), *Associate Professor*
J. Bassili, B.A. (McGill), Ph.D. (Cornell), *Assistant Professor*
D.L. Chute, B.A. (Western), M.A., Ph.D. (Missouri), *Assistant Professor*
C. MacLeod, B.A. (McGill), Ph.D. (Washington), *Assistant Professor*
M.C. Tierney, B.A. (Toronto), M.A., Ph.D. (Windsor), *Assistant Professor*
G.A.J. Heighington, B.A. (Toronto), *Senior Tutor*
R. Goldenberg, B.A. (Toronto), *Tutor*

## DIVISION OF PHYSICAL SCIENCES

### Astronomy
P.P. Kronberg, B.Sc., M.Sc. (Queens), Ph.D. (Manchester), *Professor*
P.G. Martin, B.Sc., M.Sc. (Toronto), Ph.D. (Cambridge), *Professor*
R.C. Roeder, B.Sc., M.Sc. (McMaster), Ph.D. (Illinois), *Professor*
C. Dyer, B.Sc., M.Sc. (Toronto), Ph.D. (Toronto), *Assistant Professor*

### Chemistry
J.E. Dove, B.Sc., M.A., D. Phil. (Oxford), *Professor*
R.T. Hemmings, B.Sc. (Univ. Southampton), Ph.D. (Windsor), *Professor*
G.A. Kenney-Wallace, A.R.I.C., M.Sc., Ph.D. (British Columbia), *Professor*
A.J. Kresge, B.A. (Cornell), Ph.D. (Illinois), *Professor*
T.T. Tidwell, B.S. (Georgia Inst. Tech.), Ph.D. (Harvard), *Professor*
P.W. Brumer, B.S. (Brooklyn), Ph.D. (Harvard), *Associate Professor*
A. Walker, B.Sc., Ph.D. (Nottingham), *Associate Professor*
R.A. McClelland, B.Sc., Ph.D. (Toronto), *Assistant Professor*
R. Morris, B.Sc. (Waterloo), Ph.D. (U.B.C.), *Assistant Professor*
K. Henderson, B.Sc. (Toronto), *Senior Tutor*
J. Potter, B.Sc. (Birmingham), M.Sc. (Windsor), *Senior Tutor*
A. Verner, M.Sc. (Toronto), *Tutor*

### Computer Science
W.H. Enright, B.Sc. (British Columbia), M.Sc., Ph.D. (Toronto), *Associate Professor*
C.R. Perrault, B.Sc. (McGill), M.A., Ph.D. (Michigan), *Associate Professor*
H. Suwanda, Ph.D. (Waterloo), *Assistant Professor*
M. Hall, B.Sc. (Acadia), *Senior Tutor*

### Geology
W. Tovell, B.A., M.Sc., Ph.D. (Toronto), *Professor*
J.A. Westgate, B.Sc. (Reading), Ph.D. (Alberta), *Professor*

### Mathematics
E.W. Eilers, Ph.D. (Hamburg), *Professor*
J.S. Halperin, M.Sc. (Toronto), Ph.D. (Cornell), *Professor*
J. McCool, B.Sc., Ph.D. (Glasgow), *Professor*
T. Callahan, M.Sc., Ph.D. (Toronto), *Associate Professor*
J. Friedlander, B.Sc. (Toronto), M.A. (Toronto), Ph.D. (Penn. State), *Associate Professor*
P. Keast, M.Sc. (Edinburgh), Ph.D. (St. Andrew's), *Associate Professor*
P.J. Leah, Ph.D. (Toronto), *Associate Professor*
E. Mendelsohn, B.Sc., M.Sc. (Manitoba), Ph.D. (McGill), *Associate Professor*
R.W. Sharpe, M.Sc. (Toronto), Ph.D. (Yale), *Associate Professor*
J.B. Wilker, B.Sc. (Toronto), M.A. (British Columbia), Ph.D. (Toronto), *Associate Professor*
M.J. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D. (Toronto), *Assistant Professor*
D. Hall, B.Sc., (Toronto), *Senior Tutor*
E. Moore, M.A. (Memorial), *Senior Tutor*
E. Peek, M.A., Ph.D. (Western Ontario), *Senior Tutor*
S. Chawla, B.A. (Delhi), M.Sc., (McMaster), *Tutor*
D. Shum, Ph.D. (Carleton), *Tutor*

### Physics
H.C. Corben, M.A., M.Sc. (Melbourne), Ph.D. (Cantab.), *Professor*
A. Griffin, M.Sc. (British Columbia), Ph.D. (Cornell), *Professor*
J.D. King, B.A. (Toronto), Ph.D. (Saskatchewan), *Professor*
M.J.G. Lee, M.A., Ph.D. (Cantab.), *Professor*
P.J. O'Donnell, B.Sc., Ph.D. (Glasgow), *Professor*
J.M. Perz, B.A.Sc., M.A.Sc. (Toronto), Ph.D. (Cantab.), *Professor*
M.B. Walker, B. Eng. (McGill), D. Phil. (Oxford), *Professor*
A.E. Jacobs, B.A.Sc. (Toronto), M.Sc. (Waterloo), Ph.D. (Illinois), *Associate Professor*
S. Quick, M.Sc., Ph.D. (Windsor), *Tutor*

## DIVISION OF SOCIAL SCIENCES

### Anthropology
T.F.S. McFeat, B.A. (McGill), M.A., Ph.D. (Harvard), *Professor*
F. D. Burton, B.Sc., M.A. (NYU), Ph.D. (Cuny), *Associate Professor*
C.E. Hopen, M.A. (Columbia), *Associate Professor*
H.B. Schroeder, B.A. (Penn. State), Ph.D. (Columbia), *Associate Professor*
R.W. Shirley, M.A. (Stanford), Ph.D. (Columbia), *Associate Professor*
M. Lambek, B.A. (McGill), M.A., Ph.D. (Michigan), *Assistant Professor*
M. Latta, B.A. (Kansas), M.A., Ph.D. (Toronto), *Assistant Professor*
J. Molto, B.A. (McMaster), M.A., Ph.D. (Toronto), *Assistant Professor*
L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), *Assistant Professor*
S. Hilton, B.A. (British Columbia), *Lecturer*

### Commerce
H. Babiak, B.Sc. (Econ.) (London), M.B.A. (Western), C.A., *Associate Professor*
T. Mitchell, B.Comm. (Carleton), M.M.Sc. (Ottawa), Ph.D. (York), *Assistant Professor*
A. Stawinoga, B.A. (Toronto), M.B.A. (York, Canada), R.I.A., *Assistant Professor*

### Economics
V.W. Bladen, O.C., M.A. (Oxon.), LL.D., F.R.S.C., *Professor Emeritus and Honorary Lecturer*
L. Tarshis, B.Comm. (Toronto), M.A., Ph.D. (Cambridge), *Professor Emeritus*
A. Berry, B.A. (Western), Ph.D. (Princeton), *Professor*
D.E. Campbell, B.A. (Queen's), Ph.D. (Princeton), *Professor*
M. Gunderson, B.A. (Queen's), M.A., Ph.D. (Wisconsin), *Professor*
D.E. Moggridge, B.A. (Toronto), M.A., Ph.D. (Cambridge), *Professor*
M. Bucovetsky, B.A., M.A., Ph.D. (Toronto), *Associate Professor*
J. Cohen, B.A. (Columbia), M.A., Ph.D. (California), *Associate Professor*
S. K. Howson, B.A., M.Sc. (London), M.A., Ph.D. (Cambridge), *Associate Professor*
M. Krashinsky, S.B. (Econ.), (M.I.T.), M. Phil., Ph.D. (Yale), *Associate Professor*
I.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), *Associate Professor*
N. Gallini, B.A., M.A. (Missouri), *Assistant Professor*
W. Milne, B.A. (Victoria, B.C.), M.A. (Toronto), Ph.D. (Penn.), *Assistant Professor*
R.S. Saunders, B.A. (Toronto), M.A., Ph.D. (Harvard), *Assistant Professor*
A.P. Simmie, B.A. (Manitoba), M.M., M.S. (Northwestern), *Assistant Professor*
R. Farmer, B.A., M.A., (Manchester), *Lecturer*

## Geography

R.B. Bryan, B.A. (Dublin), Ph.D. (Sheffield), *Professor*
B. Greenwood, B.Sc., Ph.D. (Bristol), *Professor*
M.F. Bunce, B.A., Ph.D. (Sheffield), *Associate Professor*
J.R. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc., Ph.D. (Toronto), *Associate Professor*
E. Relph, B.A., M. Phil. (London), Ph.D. (Toronto), *Associate Professor*
G. Szeicz, Ph.D. (Reading), *Associate Professor*
P. Moore, B.A., M.A. (Canterbury), Ph.D. (Toronto), *Assistant Professor*
A.G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), *Assistant Professor*
W. Cowie, B.A. (Carleton), *Lecturer*

## Political Science

S.J. Colman, M.A. (Oxon.), *Professor*
R. Manzer, B.Ed. (New Brun.), M.A. (Oxon.), Ph.D. (Harvard), *Professor*
K.J.R. Sandbrook, B.A. (Carleton), M.A. (Toronto), D. Phil. (Sussex), *Professor*
E.G. Andrew, B.A. (British Columbia), Ph.D. (London), *Associate Professor*
R.S. Blair, M.A. (Glasgow), M.A. (Toronto), *Associate Professor*
T. Colton, B.A., M.A. (Toronto), Ph.D. (Harvard), *Associate Professor*
J. Esberey, B.Ed., B.A. (West. Australia), B.Sc. (London), M.A., Ph.D. (Toronto), *Associate Professor*
V. Falkenheim, B.A. (Princeton), M.A., Ph.D. (Columbia), *Associate Professor*
A. Rubinoff, A.B. (Allegheny), M.A., Ph.D. (Chicago), *Associate Professor*
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), *Associate Professor*
M.W. Donnelly, B.Sc., M.A., Ph.D. (Columbia), *Assistant Professor*

## Sociology

N. Howell, B.A. (Brandeis), Ph.D. (Harvard), *Professor*
W.W. Isajiw, B.A. (LaSalle), M.A., Ph.D. (Catholic Univ. of America), *Professor*
R.L. James, M.A. (Wayne State), Ph.D. (Oregon), *Professor*
R. Beals, B.A. (UCLA), M.A., Ph.D. (California), *Associate Professor*
J-L. de Lannoy, Sc. Soc. (Louvain), Ph.D. (California), *Associate Professor*
J.A. Lee, B.A., M.A. (Toronto), Ph.D. (Sussex), *Associate Professor*
R. O'Toole, B.A. (Leeds), M.A. (McMaster), Ph.D. (Toronto), *Associate Professor*
M. Baker, B.A., M.A. (Toronto), Ph.D. (Alberta), *Assistant Professor*
M. Hammond, B.A. (California), M.A., Ph.D. (Toronto), *Assistant Professor*
J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), *Assistant Professor*
M. MacKinnon, B.A., M.A., Ph.D. (York), *Assistant Professor*
S. Ungar, B.A. (McGill), M.A., Ph.D. (York, Canada), *Assistant Professor*
D. Tippin, B.A. (Toronto), M.Sc. (London School of Economics), *Lecturer*

# Campus Location

The St George Campus is 33 kilometres from Scarborough College

1981

1982

1983

## REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE

*To Be Completed by the Student*

NAME: _____ SESSION: _____

STUDENT NUMBER: _____ COURSE: _____

PROPOSED AREA OF STUDY: _____

_____

PREVIOUS COURSES IN DISCIPLINE: _____

_____

SIGNED: _____ DATE: _____

*To Be Completed by the Instructor*

I approve _____'s registration in the course

_____, and agree to act as the supervisor of studies.

METHOD OF EVALUATION:* _____

_____

SIGNED: _____ DATE: _____

*The Grading Practices Policy stipulates that students must be informed of the method of evaluation by the last date to add a course.