



University of  
Toronto



Scarborough  
College

RETURN TO : S415A  
Convocation and  
Student Records

1984 - 1985  
Scarborough Calendar

Calendar 1984/85

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## Academic Calendar/Summer Session 1984

April 1	Last day for new students to apply for admission to the University for the Summer Session for courses beginning in May (Y, A, F and H courses).
April 20	Good Friday. University closed.
May 11	Last day to register for Y, A, F and H courses.
May 14	Classes for Y, A, F and H courses begin.
May 15	Last day for new students to apply for admission to the University for the Summer Session for courses beginning in July (B and S courses). While applications will be accepted after the above dates where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.
May 16	English Proficiency Test.
May 17	English Proficiency Test.
May 18	Last day to add Y, A, F or H courses. (There will be no "day of grace".)
May 21	Victoria Day. University closed.
June 8	Last day to withdraw without academic penalty from A or F courses. (There will be no "day of grace".)
June 22	Last day of classes in A and F courses on the St. George and Erindale Campuses. Last day for submission of term assignments in St. George and Erindale Campus courses.
June 25- June 28	Final examinations may be held in A and F courses on the St. George Campus. H and Y courses continue to meet.
June 29	Last day of classes in A and F courses at Scarborough College. Last day for submission of term assignments in these courses. Final examinations, if required, will be held in a class period of the last week. Last day to register for B and S courses.
June 29	University closed.
July 2	Classes for B and S courses begin.
July 3	Last day to add B or S courses. (There will be no "day of grace".)
July 6	Last day to request conferment of degree at the Fall Convocation.
July 15	Last day to withdraw without academic penalty from Y or H courses. (There will be no "day of grace".)
July 20	Last day to withdraw without academic penalty from B or S courses. (There will be no "day of grace".)
July 27	Civic holiday. University closed.
August 6	Last day of classes for Y, B, H and S courses on the St. George Campus.
August 10	
August 13- August 17	Final examinations in Y, B, H and S courses on the St. George Campus.
August 17	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.

## Academic Calendar/Winter Session 1984-85

### 1984

June 30	Last day for new students to apply for admission to the University for the courses beginning in September. While applications will be accepted after this date where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.
September 3	Labour Day. University closed.
September 6	English Proficiency Test.
September 7	English Proficiency Test.
September 10	Classes for Y, A, F and H courses begin.
September 21	Last day to add Y, A, F or H courses. (There will be no "day of grace".)
October 8	Thanksgiving Day. University closed.
November 2	Last day to withdraw without academic penalty from F or A courses. (There will be no "day of grace".)
November 15	Christmas Examination Schedule published.
November 15	Last day for new students to apply for admission to the University for Winter Session courses beginning in January.
December 7	Last day of classes in the first term. Last day for submission of term assignments in F and A courses.
December 10- December 21	Term test and final examination period.

### 1985

January 7	Classes for B and S courses begin.
January 16	English Proficiency Test.
January 17	English Proficiency Test.
January 18	Last day to add B or S courses. (There will be no "day of grace".)
February 15	Last day to withdraw without academic penalty from Y or H courses. (There will be no "day of grace".)
February 15	Last day to request conferment of degree at the June Convocation.
February 18- February 22	Reading Week - no classes held.
March 1	Last day to withdraw without academic penalty from B or S courses. (There will be no "day of grace".)
March 15	Annual Examination Schedule published.
April 5	Good Friday. University closed.
April 12	Last day of classes; no tests or examinations may be held until the beginning of the examination period.
April 22- May 10	Last day for submission of term assignments for Y, H, B or S courses.
June 10	Final examination period. Spring Convocations begin.

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University of Toronto 1984-1985

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E.G. Andrew, B.A. (British Columbia), Ph.D. (London),  
Associate Professor  
R.S. Blair, M.A. (Glasgow), M.A. (Toronto), Associate Professor  
M.W. Donnelly, B.Sc., M.A., Ph.D. (Columbia), Associate  
Professor  
J. Esbrey, 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. Rubinfoff, A.B. (Allegheny), M.A., Ph.D. (Chicago), Associate  
Professor  
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Associate  
Professor

## Sociology

- 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*  
M. Hammond, B.A. (California), M.A., Ph.D. (Toronto), *Associate Professor*  
J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), *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*  
S. Ungar, B.A. (McGill), M.A., Ph.D. (York, Canada), *Associate Professor*  
J. Drakich, B.A., M.A. (Windsor), Ph.D. (York, Canada), *Assistant Professor*  
M. MacKinnon, B.A., M.A., Ph.D. (York), *Assistant Professor*

# 1

## Admissions

### Admission

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

The Office of Admissions  
University of Toronto  
315 Bloor Street West  
Toronto, Ontario. M5S 1A3  
416-978-2190

#### Bases of admission

##### Ontario Grade 13

Admission to the College may be offered to students in an Ontario secondary school who have demonstrated good academic standing, and who meet the following requirements: Grade 13 academic subjects have been arranged into the following groups for the purposes of admission:

Group A: English/anglais/English as a second language (see English facility requirement page 13)

Group B: Languages other than English

Group C: Mathematics

Group D: Sciences

Group E: Other Humanities and Social Sciences

Group F: Other subjects -

Accounting

Family Studies

Law

Multidisciplinary Studies

Other Arts Studies

Physical and Health Education

Provided the regulations concerning Groups A through E are met, a Grade 13 student may present one credit from Group F for admission purposes.

Effective with the admission cycle for 1985, Law, Multidisciplinary Studies, other Arts Studies and Physical and Health Education courses will not be accepted.

Grade 13 students may continue to present one of Accounting or Family Studies until further notice.

#### Regulations concerning Groups A through E:

The applicant will be expected to present at least six Grade 13 credits distributed as follows:

- 1 at least one credit from Group A;
  - 2 additional Grade 13 credits chosen from at least two of B through E, and including at least one credit in either Group B or Group C.
- Students wishing to qualify under Group C must present at least one of Algebra or Calculus or Relations and Functions.

3 Applicants may not present more than:

- three credits in Mathematics
- two credits in any other subject

The following will not be accepted:

Data Processing  
Marketing and Merchandising  
Other Business Studies  
Secretarial Practice  
Technological Studies

NOTE: Applicants who have matriculated prior to 1982 are not required to meet the subject distribution outlined above.

Students should choose Grade 13 subjects which will fulfil the prerequisites for university courses they intend to take. Such prerequisites are listed after the description of each course later in the calendar.

#### 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* - 12 academic C.E.G.E.P. courses

#### 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.

#### 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.

#### Non - matriculants

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

- 1 is at least 21 years of age; and
- 2 has been resident in Ontario for at least one year as a Canadian citizen or permanent resident; and
- 3 achieves high standing in one 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. These courses generally require attendance at two evening classes per week for a winter or summer session. Successful completion does not ensure admission in all cases. Hence, students must consult with the Office of Admissions before enrolling to ensure that completion of a pre-university course will make the applicant eligible for admission consideration.

#### 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 requirements are waived.

#### English facility requirement

All applicants for admission to Scarborough College whose first language is not English and who have studied in an English language school system for four years or less must pass a recognized test of facility in English, i.e. the University of Michigan English Language Test, TOEFL administered by the Educational Testing Service, or the Certificate of Proficiency in English issued by the University of Cambridge, whether or not they complete a Grade 13 English course.

If Grade 13 English is not completed, the applicant is expected to present six Grade 13 credits, distributed over at least three subject groups from B-E, in addition to passing the test.

#### Application procedures

##### Current Ontario Grade 13 students

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

##### 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

Applicants 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

Unless specified the following awards do not require an application; all students with excellent academic standing are considered.

## 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. The scholarships are awarded in honour of Professor Emeritus F.A. Urquhart, a distinguished entomologist.

### University of Toronto, Scarborough College Admission Scholarships

A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing as demonstrated by Grade 13 marks, Grade 12 marks and other information submitted by the secondary schools. 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 are available in 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.

### 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 scholarships are awarded in memory of Professor V. Bladen, a former member of the faculty in Economics.

### 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. The scholarship is 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.

### Scarborough College General In-course Scholarships

Awarded to the outstanding students in each year at Scarborough College, in each of Humanities, Science and Social Sciences.

### 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 or 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

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.

### Award of Academic Merit in Neurosciences

Awarded to the student in the Specialist Programme in Neurosciences who has the highest aggregate standing at the end of the third year of study in the required courses of the programme.

### Helen Evans Reid M.D. Prize for Excellence in Scientific Communication

Awarded to the student in the Neurosciences Specialist or Major Programme whose paper or project in PSYC90/C93/C98 or BIOC01/C02 is deemed to best exemplify excellence in the communication of scientific information.

### Anita Fitz Gerald Prize in Women's Studies

Awarded for the best essay in the area of Women's Studies.

### The Gilchrist Scholarship in Computer Science

Awarded to the student in a Computer Science Specialist or Major programme:  
(a) who has completed CSCC85 and at least three other full course equivalents at the B and C level in Computer Science, Mathematics or Physics; and  
(b) who has the highest grade point average in these courses.

### The Gilchrist Scholarship in Microbiology-Biochemistry

Awarded to the student who has completed the third year of study in the Specialist Programme in Microbiology-Biochemistry and who has the highest grade point average in that programme (minimum B(1), having completed at least three of the following courses with a grade in each of at least B:  
BIOB02Y  
BIOB48F  
JBCB35Y  
JBCB36H

#### **The Glichrist Scholarship in Terrain and Environmental Earth Sciences**

Awarded to the student in the Specialist Programme in the Terrain and Environmental Earth Sciences who has the highest aggregate standing at the end of the third year of study in the required courses of the programme.

#### **Management Accounting Student of Merit Scholarship**

Awarded to the student who has completed the third year of study in the Specialist Programme in Commerce or Commerce and Economics, and who has completed the following courses with the highest average grade:

COMB01Y  
JCEC02Y  
JCEB72F/73S

#### **Andrew Tsang Memorial Scholarship in Sino-Canadian Studies**

Awarded to the undergraduate, either full-time of part-time, whose academic performance and extracurricular activities in the area of Chinese studies and Sino-Canadian studies best exhibits commitment to Chinese-Canadian cultural and economic ties.

#### **Graduation prizes**

The following awards are made in recognition of academic excellence among the members of the fall and spring graduating classes.

#### **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.

#### **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.

#### **Digital Equipment of Canada Limited Award of Merit**

To be awarded to the most outstanding student graduating either in Computer Science (Faculty of Arts and Science, Scarborough College) or in Engineering Science with Computer Science Option (Faculty of Applied Science and Engineering).

#### **Scarborough College Honours List**

Scarborough College publishes annually an honours list, including the names of all degree 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. Students are considered for the honours list at the end of the session in which they complete their 5th, 10th, 15th and 20th credit. Other students may be nominated by the academic Divisions of the College.

#### **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 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 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 The Student Services office.

#### **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.

#### **Scarborough College Bursaries**

Applicants for bursaries must demonstrate 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 The Student Services office.

#### **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.

# Academic Regulations

## 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. Students whose course registration contravenes the regulations may be withdrawn from courses or have courses designated as extra rather than degree credit courses.

## 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 amend their requirements or to withdraw courses or amend their descriptions.

## 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.

## Course selection and registration

### Key to the course descriptions

Students are urged to read carefully pages 19 and 20 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, using the form printed on page 00 of this Calendar. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

## St. George Campus or Erindale Campus courses

Students who propose to register in courses on the St. George or Erindale campus should consult page 28 of this Calendar.

## Registration

Full registration information and the schedule of fees will be provided by the Registrar's Office, as follows:

### Summer Session

Students who were registered at the College in the 1983 Summer Session or the 1983-84 Winter Session should pick up registration information from the Registrar's Office in March or April. Signs will be posted at the College when it is available. New students and students reactivating their enrolment after a year away will be mailed their registration material upon request.

### Winter Session

Students who were registered at the College in the previous Winter Session will receive registration material in the mail in June, along with their Statement of Results. Returning students who were not registered in the previous winter or summer session should get in touch with the Office of the Registrar to request reactivation of their enrolment; they will then be mailed registration material. New students will receive registration information with their offers of admission.

## Fees

Fees for 1984-85 will be announced in the Registration Instructions. As a guideline, the following fees were charged for 1983-84; fees are expected to increase by about 5% for 1984-85. Full-time students taking the usual load of five courses incurred fees charges of about \$1200 for Canadian citizens or permanent residents or about \$4250 for visa students.

## 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 for credit 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. Students who obtain waivers of specifically-stated prerequisites in order to take more advanced courses may not then take the less-advanced prerequisite courses.

### 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 corequisite 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.

## Course selection

### In selecting their courses, students must adhere to the following regulations.

1 Courses selected must satisfy the degree requirements.

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

3 Students proceeding to a three-year degree may include, among the fifteen courses<sup>1</sup> required for their degree, no more than ten courses in any single discipline. (This regulation applies to all students who first registered at the College in the 1980 Summer Session or thereafter when this regulation came into effect.)

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

5 Students may not register for credit for a course if they have already passed<sup>2</sup> another course shown in the course description as an exclusion to that course or in a non-Scarborough course deemed to be the equivalent (or the partial equivalent) of a Scarborough course which they have already passed.

6 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.

7 Students may not register for credit in a course which is a specific prerequisite<sup>3</sup> for a course they have already passed.

8 Students in good standing may normally 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.

- The usual load for a full-time student in the Winter Session is five courses.
- The usual maximum load for a student in the Summer Session is two courses.

9 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

10 Full-time students are those students who are registered in at least four courses in the Winter Session. Students who are restricted on admission to part-time studies until they have met certain conditions may register in no more than three and one half courses in any Winter Session until those conditions are met.

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

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





### Approved Individual Programmes

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

Normally, such proposals will be considered favourably only from students with cumulative G.P.A.s of 3.5 or greater. To be approved, individual programmes should specify six to eight courses for a Major or College Programme and ten to fourteen courses for a Specialist Programme. The courses should all be offered on the Scarborough Campus and should form a logical programme. The student should offer a rationale for the proposal. Proposals should be made to the Associate Dean, (Academic) who will convey them to the College Sub-committee on Academic Programmes.

Students are expected to make proposals well in advance of their graduation. Proposals must be submitted at least eight months prior to the session in which the students expect to graduate (for example, by January, 1985 for graduation in Spring, 1986).

### 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 member of the College faculty serves as supervisor for each Programme. 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. 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, they 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. 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.

### Registration in Programmes

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.

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.

Students register in their Programmes at the time they submit their course registration for any Winter Session following the session in which they attain their fourth credit.

### Programme transfers

Students who wish to transfer after classes have started from one Programme to another must discuss the proposed transfer with the supervisor in the new Programme, and obtain the supervisor's approval.

To register the transfer, students must submit to the Registrar's Office a "Registration change form", signed by the supervisor of the new Programme.

### Certification of completion of Programmes

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

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. Students are given complete information about this procedure in the registration information distributed at the beginning of each session.

### Regulations concerning Programmes of study

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

2 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.

3 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. (The requirements of the Specialist Programme and the corresponding Major or College Programme have been designed to facilitate changes between the Programmes.)

4 Supervisors have the authority to deal with special circumstances concerning Programme requirements. They may;

- prescribe additional courses where a student is registered in two Major Programmes (or a Major and a College Programme) that require more than two overlapping courses (see 2 above);
- accredit to Programme requirements, courses taken on other campuses of this University or at other Universities; and
- permit course substitutions or other modifications of Programme requirements where they deem them appropriate. When special arrangements are made, students should ask their supervisor to record them on a "Programme Exceptions" form. Copies of this form may be obtained from any Divisional office, from the Office of the Registrar or from Student Services. Supervisors retain one copy, the student retains one copy, and the third copy may be submitted to the Office of the Registrar for storage in the student's file.

### 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.

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 Students who had passed fewer than five courses as of the beginning of the 1979-80 Winter Session and wish to complete a Programme 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.

- Such students are advised nonetheless to consider the merits of the new Programmes described in the 1980-81 or subsequent Calendars and to consult with the supervisor about the wisdom of opting for one Programme over the other.
  - 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.
  - 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. A form for this purpose, called a "Programme Exceptions" form, is available from any Divisional Office, from the Office of the Registrar or from Student Services. Supervisors retain one copy, the student retains one copy, and the third copy may be submitted to the Office of the Registrar for storage in the student's file.
- 4 For information on registration and programme transfer see: "Programme requirements: new rules" above.

## English proficiency requirement

1 All newly-admitted degree students<sup>7</sup> are required to write an English Proficiency Test at the time of their first registration at the College. Those who fail on the first attempt will be given opportunities to re-write the test for a fee of \$10 or to meet the requirement through successful completion of a non-credit course in English Writing Skills. Students who do not meet the requirement within twenty-four months of their first registration at the College will be refused further registration until such time as the requirement has been satisfied.

2 Students are exempt from the English Proficiency requirement if they were registered at the University of Toronto's Faculty of Arts and Science in a session earlier than the 1980 Summer Session.

For other degree students who transfer from the Faculty of Arts and Science, the twenty-four months within which the English Proficiency requirement must be satisfied begins at the time of their first registration in the University of Toronto's Faculty of Arts and Science. Special students, that is students not proceeding towards a University of Toronto degree, need not satisfy this requirement.

## Standing in a course

### Grading scheme

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

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

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

### Credit/No credit courses

In some courses such as music performance courses, drama courses, or conversation courses in languages, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NCR) system.

Where a student earns a grade of "Credit" in such a course, the course counts as one of the courses at C- or better required for the degree. The grade of "No credit" is a failing grade, yielding no standing in the course and no degree credit.

Where students earn a grade of "Credit" in a course, the course is not included in the grade point average; where students earn a grade of "No Credit", the course is included as an F (value zero) in the grade point average.

## Overall standing

### Standing deferred

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

### 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 at C- or better required for the degree. The course is not included in any grade point average.

### Extra courses

Extra courses are those courses in which students may not register for credit (see "Course Selection" on page 00). 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.

### 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.

1 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.

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

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

### Determination of academic status

Academic status will be determined as follows for students who have attempted at least two and one-half full courses (or equivalent):

#### 1 In good standing

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

#### 2 On probation

a Students shall be placed on probation who have attempted at least two and one-half courses in the College and have a cumulative GPA of less than 1.50.

Students returning from suspension (under 4 (c) below or under any provision in previous College rules) shall be placed on probation again.

#### 3 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".

#### 4 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.

a 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.

b Where the probationary GPA is 2.00 or better, the student may continue on probation.

## Courses on other campuses

- c 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.

### Petitions for application of pre-1978 rules

The above rules governing the determination of academic status were introduced as of the 1978 Summer Session.

Students who began their degree programmes under the "old" (pre-summer 1978) rules and incur suspension or refusal of further registration under the "new" rules (above) may in certain circumstances petition for application of the old rules. Such students should consult with the Registrar's Office or Student Services to determine their eligibility to petition for application of the old rules. (The "old" rules may be found on pages 24-25 of the 1979-80 Calendar.)

### 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:

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

### Study at other institutions or other divisions of the University of Toronto

Although courses taken at other institutions or other divisions of the University of Toronto (with the exception of the Faculty of Arts and Science) are not included in grade point averages, they are taken into consideration and may affect a student's academic status.

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. Students may be withdrawn from courses after classes have started if their registration violates these rules.

### Equivalent courses

—Students may not register in any *day course* on another campus where an equivalent course is offered on the Scarborough campus during the same session.

—Students may not register in any *evening course* on another campus where an equivalent course is offered on the Scarborough campus in the evening during the same session.

A list of courses, deemed to be equivalent for purposes of this rule, may be consulted in the Office of the Registrar, Student Services, or any Divisional Office.

### 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.)

### Sessional limits

Students may register in no more than two St. George or Erindale Campus courses in any session.

### Term limits in the Summer Session

Where a student registers for any course on another campus in the Summer Session, the student may register in:  
—no more than two full courses for the Summer Session; and  
—a "term course load" of no greater than three. (In determining "term course load", Y, F, and S courses count as one course; A and B courses count as two; and H courses count as one-half. Note particularly that students may *not* register in two B courses or in one B and two S courses.)

## Study at other universities: Letters of permission

### Exceptions for fourth year students

—For purposes of these regulations, fourth year students are defined as those who have passed fourteen or more full courses (or equivalent) at the beginning of the session.

—Fourth year students who are registered in a Specialist Programme (such as Computer Science or Physics) that specifies completion of one or more fourth year St. George Campus courses are exempted from both the rule on sessional limits and from the rule on equivalent courses.

—Other fourth year students are exempted from the sessional limits but not the rule on equivalent courses. —

Fourth year students are not exempted from the term limits in the Summer Session.

### Other than Arts and Science credits

Students are not permitted to register for courses in Faculties other than Arts and Science for credit towards their Arts and Science degrees unless they have received the permission of the Subcommittee on Standing.

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. Such students may be granted letters of permission.

### Letters of permission

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

Requests should be addressed to the Admissions/Liaison Officer, 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.

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

### 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 full grade higher than the minimum passing grade (i.e. a grade of C- or better at universities employing a grading system similar to that of the University of Toronto). Grades are not recorded on transcripts and are not included in any grade point averages.

### Accountability for courses on letter of permission

Students who have requested and received a letter of permission must arrange with the host university to send an official transcript to Scarborough College 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 or the minimum grade requirement will result in a grade of F being entered automatically on the student's record at Scarborough College. These credits are listed as pass credits only; grades attained at other universities are not included in the student's grade point average. They may, however, affect a student's academic standing.

## Study at other universities: Study elsewhere year

### Limits on letters of permission

**1** 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:

—complete at least eight courses at Scarborough College;  
—complete at least three B-level and/or C-level courses with a grade of at least C- at this University.

**2** 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:

—complete at least 11 courses at Scarborough College;  
—complete five B-level and/or C-level courses with a grade of at least C- at this University.

**3** 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:

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

**4** 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.

**5** A student must have completed the equivalent of one year of full-time study and be in good standing to be eligible for a letter of permission.

**6** A student who completes the final course(s) for the degree on a letter of permission during the Winter Session may not graduate in June, but will do so in November.

A maximum of 2.0 courses can be taken on a letter of permission during any session.

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.

### Types of Study elsewhere years

There are basically two types of Study elsewhere.

**1** 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.

**2** 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.

**3** 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.

### Fees and aid

Students taking courses for transfer credit (as in 1 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.

Students taking Scarborough College supervised study courses elsewhere (as in 2 above) pay regular Scarborough College fees.

Students in a mixed programme (as in 3 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.

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

### Application

Interested students may obtain an application for a Study elsewhere year from the Associate Chairman, Division of Humanities, or the Admissions/Liaison Officer. 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 Winter Session.

### Regulations

**1** A student must be in good standing to apply for a Study elsewhere year.

**2** A student must have completed at least eight courses, of which at least three must be in the student's programme;

**3** The proposed Study elsewhere year must be reviewed and approved by the supervisor of the student's specialist or major programme(s) before the student is given final approval for his Study elsewhere year;

**4** A student may be given credit for a maximum of five full-course equivalents on a Study elsewhere year;

**5** Any plan for a Study elsewhere year must be compatible with University regulations; that is, students will complete their last year or their last five full courses (or equivalent) at the University of Toronto.

Scarborough College students may earn either a Bachelor of Arts or a Bachelor of Science degree. Students may elect to receive their degree after having completed the requirements for a three-year degree or a four-year degree.

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. Students are advised, however, to submit their requests in the first term of their final session in order that possible problems may be solved well in advance of 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.

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 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:

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

2 The student's academic record, listed chronologically by session.

—each course attempted, its abbreviated title, and its grade;

—the sessional grade point average;

—the cumulative grade point average at the end of the session;

—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;

—completion of degree and programme requirements, and date of conferral of the degree;

—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.

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.

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.

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".

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, Scarborough, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto". 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 at the same time (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.)

### 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:

—whether a student is currently registered;

—the student's address and telephone number;

—for graduates of the College, the degree and date of its conferral.

Students who do not want their address and telephone number released by the College or published by the Students' Administrative Council in its annual student directory, should 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).

### 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:

—to students who wish to see their own records;

—to members of the University staff who demonstrate to the Registrar that they require access in order to perform their duties;

—copies of student transcripts, and letters or oral reports based on other information, will be released on the written request of the student;

—This information will otherwise be released only when required by law.

### Students' access to their own records

Students may request personal access to the following parts of their own records:

—official transcripts of their academic record;

—student records in computer files, except information dealing with students' applications for admission (particularly the secondary school principal's confidential recommendation);

—students' paper files, except for information filed before 1 July 1979, when this policy was implemented, information relating to students' applications for admission (particularly the secondary school principal's recommendation); and

—medical information.

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).

Students may request a copy of the material in their files (to which they have access), for a ten dollar copying fee.

## Withdrawal

### Withdrawal from a course

1 Students may withdraw from courses without academic penalty up to the following deadlines:

Course Duration	1984 Summer Session	1984-85 Winter Session
Year long (Y, H)	20 July	Feb 15, 1985
1st term (F, A)	8 June	Nov 2, 1984
2nd term (S, B)	27 July	Mar 1, 1985

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.

2 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.

3 Where students cease to complete course requirements, but do not withdraw officially by the deadline, a failing grade will be recorded.

4 Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the registration information 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.

5 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

1 Students who wish to withdraw from the College for a given session do so by withdrawing from all courses by the deadlines above.

2 Students must also complete the following procedures and submit a "Withdrawal form" to the Office of the Registrar:

- surrender any Bookstore charge card and arrange payment of any outstanding account;
- return any borrowed books to the Library, pay any outstanding library fines, and surrender their library card;
- return any equipment borrowed from the College Recreation Centre and surrender any recreation centre locker;
- surrender any College locker and return (perhaps for a partial refund) any College parking permit; and
- surrender any laboratory locker and equipment.

Students who wish to withdraw from the College are advised to 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.) and any fees adjustments, and will also advise appropriate students with respect to any required repayment of Ontario Student Assistance.

(These procedures are somewhat simplified for part-time students.)

### 1. ORAL EXAMINATIONS

Since it has long been the custom in scholarly inquiry that discoverers and originators of ideas be willing to participate in a lively defence of their ideas in the scholarly community, the College expects that any student will be prepared to defend and explain his/her ideas which he/she has submitted in any work for academic credit.

At the discretion of the instructor, there may be required in conjunction with any piece of written work an oral examination in which the student is required to defend the ideas presented in the paper, and the grade assigned for the paper may be substantially affected by the results of the interview.

### 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

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.

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.

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 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.

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

—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).

—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 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.

—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.

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

Instructors will make available to students commentary on assessed term work and will make available time for discussion of such term work. Grades, as an expression of the instructor's best judgement of each student's overall performance in a course, will not be determined by a system of quotas.

Grades, submitted by the instructor in each course, are subject to review by the marks review committee of the appropriate division and by the Scarborough College marks review sub-committee.

For procedures for appeals concerning grades and grading practices, see below "Procedures for requesting special consideration, petitions, and appeals".

# Procedures for requesting special consideration, petitions and appeals

## Petitions for exceptions to the academic regulations

1 Students may request that an exception to an academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough College sub-committee on standing.

2 To enter a petition, the student prepares a written statement:

- stating clearly the special consideration requested;
- 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
- appending documents to evidence special circumstances: medical certificates, etc.

3 Students who wish to submit medical certificates in support of their petitions must ask their physician:

- to verify that the student was examined at the time of the illness;
- to state briefly the nature of the illness;
- to indicate the duration of the debility caused by the illness; and

—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.

4 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.

5 Petitions are submitted to the sub-committee on standing through the Student Services Office. *The onus is on students to demonstrate the validity of their requests. The sub-committee may refuse a petition by deciding that the grounds advanced do not support the request made.*

6 Students are notified in writing of the sub-committee's decision on their petition.

7 Students who wish to appeal a decision of the sub-committee on standing can enter an appeal to the sub-committee on academic appeals - see Academic appeals, below.

## 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.

## Term work

1 Special consideration before the end of term: Students who are unable to write a term examination, or whose performance is adversely affected by illness or other extenuating circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, *must (except as noted below) speak with their instructor as soon as possible to request special consideration.*

Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chairman of the division offering the course.

2 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 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.

Students who wish to appeal any decision of the sub-committee on standing, may enter an appeal to the sub-committee on academic appeals.

## Final examinations

1 Students who, for reason of illness or other extenuating circumstances, are unable to write a final examination, may request special consideration by means of a petition to the sub-committee on standing.

Such petitions must be submitted as soon as possible and no later than the last day of the examination period.

2 When an examination has been missed because of illness, a student who requests special consideration must submit a medical certificate (see Petitions, 3, above) certifying in addition that:

- the student was examined at the time of illness; and
- the student was incapable of attempting the examination at the scheduled time.

3 When an examination has been missed because of domestic affliction or other extenuating circumstances, a student who requests special consideration must submit appropriate documentation from a professional such as a social worker or lawyer, stating the nature and extent of the problem and certifying that the student was incapable of attempting the examination at the scheduled time.

4 Where students suffer illness or domestic affliction that does not prevent their writing an examination, *they are required to attempt the examination.* If, after receipt of their "statement of results", they believe that their performance has been adversely affected by the illness or other problem, students may then request special consideration by means of a petition to the sub-committee on standing. Where the sub-committee accepts the validity of a petition, and where the students' examination marks are significantly lower than their term marks, students will be granted special consideration (see 5 below.). Students who are concerned that their performance may be affected by illness, should visit a physician on the day of the examination to obtain both medical assistance and a medical certificate that may be submitted if a petition proves to be necessary. Petitions of this nature should be entered as soon as possible, but no later than six months after issuance of students' statements of results.

5 Where petitions are granted, students are normally permitted to write make-up examinations in the next appropriate examination period. Where students expect to graduate at the end of a given session, special arrangements may be made for an immediate make-up examination.

## Requests for checking of marks in a course

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

## Term work

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

## Final examinations

Students who believe that an error may have occurred in the calculation of their final examination mark may do the following:

1 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 ten dollar fee is required at the time of the request.

2 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.

## Final grade

Students who believe an error has occurred in the calculation of their final grade, may submit, through the Office of the Registrar, a request for a recheck of the calculation of the grade. This must be done after the issue of their "statement of results" but within six months of the relevant examination period. A ten 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.

## 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.

## Petition of marks in a course

Students who believe their work has been graded unfairly may petition their grade as follows:

## Term work

1 Students who wish to petition their grade on a term examination, an essay or another term assignment, must speak with the course instructor as soon as possible, and certainly before the end of term.

2 Students who wish to appeal the decision of an instructor with respect to the grading of term work may speak with or write to the Chairman of the division offering the course.



3 Students who wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor submitted grades for the course), may enter a formal petition to the sub-committee on standing. See above for information about the petition procedure. Petitions must be entered within six months of the final examination period and will be treated in the same way as requests for re-reading of a final examination (see below).

#### Final examinations

Students who wish to look into the possibility of an appeal of their final examination mark may do the following:

1 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 ten dollar fee is required at the time of the request.

2 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, *addressing the substance of the answer* in relation to the mark given it, or otherwise identifying the nature of the alleged misvaluation;

—has demonstrated that the alleged misvaluation 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 under-evaluated substantially.

If an error is discovered and the mark is changed, the copying fee will be refunded.

3 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.

4 Where the sub-committee on standing authorizes re-reading of an examination or item of term work, the amended grade will stand, whether it is higher or lower than the original grade.

#### 5 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.

#### Petitions concerning grading practices in a course

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

#### Grading practices during the term

—Students who believe an instructor has violated a rule of the College's grading practices during the term are expected to discuss this complaint with the instructor at once.

—If this discussion does not yield a satisfactory resolution to the problem, students may appeal the decision of the instructor to the Chairman of the division offering the course.

—If the appeal does not yield a satisfactory resolution to the problem, students may appeal the decision of the division to the Principal of the College.

#### Grading practices after the end of term

Where students believe an instructor has violated a 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.

#### Academic appeals: the Scarborough College sub-committee on academic appeals

Students may appeal a decision of the sub-committee on standing on a petition by means of an appeal to the Scarborough College sub-committee on academic appeals.

An appeal to the sub-committee on academic appeals must 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) through the Office of the Associate Dean (Academic) of the College.

Full information may be obtained from that office.

#### The University of Toronto academic appeals board

Students may appeal a decision of the Scarborough College sub-committee on academic appeals to the University of Toronto academic appeals board.

Such appeals must 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.

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.

#### University Ombudsman

The ombudsman assists in any way possible to resolve grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, the ombudsman has access to all relevant files and information, and to all appropriate University officials. The ombudsman is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council. 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).

## 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:

—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;

—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;

—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;

—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;

—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;

—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:

- Caution;
- Censure;
- Assignment of a mark of zero in academic work submitted for credit;
- Failure in or cancellation of credit for any course or other academic work in respect of which any offence was committed;
- 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;
- Suspension from the University for such period as may be determined by the University's disciplinary tribunal; or
- Expulsion from the University.

### Reporting

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.

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 role of the Caput, as described above, is 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).

### Students in Debt to the University

In accordance with the University's policy on academic sanctions for students who have outstanding University obligations, Scarborough College imposes sanctions for the following obligations:

- tuition fees
  - academic incidental fees
  - residence fees and other residence charges
  - library fines
  - Bookstore accounts
  - loans made by the College or the University
  - Health Service accounts
- The following academic sanctions are imposed on students who have outstanding obligations:
- Transcripts will not be issued
  - Diplomas will not be released
  - Further registration will be refused or registration will be retroactively cancelled.

## 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 26 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)** is intended for students for whom English is a second language. It is offered through the University of Toronto School of Continuing Studies.

**EWSA01F/S (Basic Writing Skills)** and **EWSA02F/S (The University Essay)** are intended for students whose first language is English.

*A fee, to be announced, is 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 course. Timetable information and registration forms may be obtained from the Registrar's Office (S-416B) or Student Services (S-302).

Further information about these courses may be obtained from the Writing Laboratory (S-303F; phone: 284-3369).

### ESLA01Y Basic Writing Skills

*Coordinator: M. Tyacke (School of Continuing Studies)*

A non-credit course for students whose native language is not English.

This course is designed to increase facility in expository writing. It will concentrate on sentence structure, organization and logical development. Students will be expected to produce weekly written assignments, as well as pass a mid-term and final written examination. Students will also have the opportunity for individual help with paragraph and sentence structure.

Session: Winter Day, Winter Evening and Summer

### EWSA01F/S Basic Writing Skills

*Coordinator: A. Fisher*

A non-credit course for students whose native language is English.

The aim of this course is to help students learn to construct syntactically clear and correct sentences and to develop a prose style suitable for university level work. The primary focus will be on the sentence level: grammar, punctuation, diction, usage, and style. The course will also concentrate on the organization and development of coherent paragraphs with clearly defined topic sentences. All written work will be done in class time.

Session: Summer Evening, Summer Day, Winter Day, Winter Evening

### EWSA02F/S The University Essay

*Coordinator: A. Fisher*

A non-credit course for students whose native language is English.

The aim of this course is to help students learn to deal with the organization and rhetorical development of the university essay. The primary focus will be on the formulation of a thesis, the organization and presentation of ideas, and the development of paragraphs. Research methods, note-taking, incorporating quotes into essays, and so on will also be dealt with. All written work will be done in class time.

Session: Summer Evening, Summer Day, Winter Day, Winter Evening

# Programmes of Study and Course Descriptions

The following Programmes are offered at Scarborough College.  
All programmes in Commerce, Computer Science and Economics and all Co-operative Programmes have strict enrolment limits. For details on application to the Programmes, see the appropriate discipline entry in this *Calendar*. In the event that the number of qualified applicants exceeds the teaching or other resources available, enrolment in other Programmes may have to be limited at a future date. In the event of underenrolment, some of these Programmes may have to be withdrawn.

## Specialist Programmes

Anthropology\*  
Arts  
Biology  
Canadian Studies  
Chemical Physics  
Chemistry  
Chemistry & Biochemistry  
Cognitive Science  
Commerce  
Commerce & Economics  
Computer Science  
Computer Science for Data Management  
Co-operative Programme in Administration  
Co-operative Programme in Arts Administration  
Co-operative Programme in International Development Studies  
Drama  
Economics  
Economics & Quantitative Methods  
Economics & Mathematics  
Economics & Political Science  
English\*  
*Fine Art History\**  
Fine Art Studio  
French  
Geography  
History\*  
History of Ideas  
Humanities  
Language & Literature  
Linguistics  
Mathematics  
Medieval Civilization  
Microbiology & Biochemistry  
Modern Languages  
Neurosciences  
Philosophy\*  
Physics  
Political Science  
Psychology\*  
Renaissance Studies

Sociology\*  
Terrain and Environmental Earth Sciences

## Major Programmes

Anthropology\*  
Biochemistry  
Biology  
Chemistry  
Classical Civilization  
Classical Studies  
Commerce\*  
Cognitive Science  
Computer Science  
Drama  
Economics\*  
English\*  
Fine Art History\*  
Fine Art Studio\*  
French Language\*  
French Language & Literature\*  
Geography  
German Language  
History\*  
Italian Language  
Italian Language & Literature  
Linguistics  
Mathematics  
Medieval Civilization  
Microbiology & Biochemistry  
Music  
Neurosciences  
Philosophy\*  
Physics  
Political Science\*  
Psychology\*  
Quaternary Studies  
Renaissance Studies  
Society, Values & Medicine  
Sociology\*  
Spanish Language  
Women's Studies

## College Programmes

Canadian Studies  
Development Studies  
History of Ideas  
Humanities  
Myth & Religion

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

## Interdisciplinary Courses and Programmes

These Programmes and courses, which are also listed above, can be found in the interdisciplinary section of this *Calendar*.  
Specialist Programme in Arts  
Specialist Programme in Canadian Studies  
College Programme in Canadian Studies  
Specialist Programme in Cognitive Science  
Major Programme in Cognitive Science  
Cooperative Programme in Administration  
Cooperative Programme in Arts Administration  
Cooperative Programme in International Development Studies  
College Programme in Development Studies  
Specialist Programme in History of Ideas  
College Programme in History of Ideas  
Specialist Programme in Language and Literature  
Literature  
Specialist Programme in Medieval Civilization  
Major Programme in Medieval Civilization  
Specialist Programme in Modern Languages  
College Programme in Myth and Religion  
Specialist Programme in Neurosciences  
Major Programme in Neurosciences  
Major Programme in Quaternary Studies  
Specialist Programme in Renaissance Studies  
Major Programme in Renaissance Studies  
Major Programme in Society Values and Medicine  
Specialist Programme in Terrain and Environmental Earth Sciences  
Major Programme in Women's Studies

## Anthropology

Assistant Chairman: R.W. Shirley

Anthropology is the study (or science) of human-kind, 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. Students interested in inquiring about appropriate course sequences in one of the sub-fields are recommended to consult with one of the faculty in that sub-field. Students will be directed to appropriate faculty by the Supervisor of Studies.

### Specialist Programme in Anthropology

Supervisor:

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:

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 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. Lectures and tutorials.

Session: Winter Day, Winter Evening  
L. Sawchuk

### 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

### 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. 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

### 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

### 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 archaeological 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

H.B. Schroeder

#### **ANTB14Y Human Evolution**

An analysis of the phylogeny of man. The issues and controversies that form the theoretical framework to the understanding of fossil evidence. Readings substitute for a single text. Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil cast materials.

The course involves an analysis of the rise of evolutionary theory through natural selection, the development of genetic theory and the eventual rise of the synthetic theory of evolution. A brief survey of the evolutionary development of vertebrates, a survey of primate fossils and presumed evolutionary directions. Finally the major portion of the course deals with a survey of the discovery of hominid fossils and attempts to synthesize a meaningful interpretation out of what is presently known concerning human origins. The goals of the course are to introduce evolutionary theory in an historical context, to survey the history of the discovery and interpretation of our ancestors and to attempt to provide a meaningful understanding of the selective pressures which culminated in the phenomenon of modern linguistic, culture-bearing *Homo sapiens*. Lectures with discussion and labs.  
Prerequisite: ANTA01; ANTB15 is recommended  
Session: Winter Day

#### **ANTB16F 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

#### **ANTB19F Economic Anthropology**

A consideration of comparative economic systems in ecological and adaptive perspective, and of the nature of methods of production as a developmental process and its relation to total societal frameworks.

The course examines cross-cultural systems of production, redistribution, and market exchange; with attention given to the production and use of material objects in differing cultural environments, and to the effects of change on the ideologies surrounding these objects as products of specific environments. The marketplace is used as the focus for studying these features. Two one-hour lectures and one one-hour seminar per week.

Prerequisite: ANTA01

Session: Winter Day

R.W. Shirley

#### **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

#### **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

#### **ANTB37F 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 Evening

M. Latta

#### **ANTB38S 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 Hopewell 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 i 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

**ANTB46Y Childhood in Contemporary Cultures**

All primates -- monkeys, apes, and humans -- take account of the need of their newborn to learn and to be "socialized". For the infant and child, this requires a series of accommodations to the requirements of family and community; for the community it requires guidance and concern.

The results of these activities and developments make up what we call childhood: that which involves play, games, folk tales and myths as influences that amuse, guide and warn the young. During the course of our examination into childhood, the class will be encouraged to visit and record contemporary child environments in daycare centres, kindergartens, informal organizations of park play, street games, scrub games and the like.

Prerequisite: ANTA01 or Permission of Instructor  
Session: Summer Evening, Winter Evening  
T. McFeat

**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

**ANTB48S Human Odontology**

The analysis of primate dentitions is approached from a phylogenetic and ontogenetic perspective. The evolution of dental structures among the vertebrates is presented, with special emphasis upon the functional aspects of mammalian teeth. The significance of teeth in primate and human paleontology, as well as dental histology are also treated.

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 and one two-hour laboratory per week.

Prerequisite: ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended  
Session: Winter Day

**ANTB49S Law and Society**

This course is an examination of the problem of order in society. It will be highly comparative, studying legal institutions through the world and at all levels of social complexity.

The course will start with an examination of social control in relatively "simple" societies, followed by a survey of the legal institutions of various forms of the state. It is hoped to include some work on the philosophy of Law.

Prerequisite: ANTA01 or Permission of Instructor  
Session: Winter Day  
R. Shirley

**ANTB51Y Medical Anthropology**

The examination of health and disease in socio-cultural 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 of therapy are considered. Specific topics include: infectious disease (focusing on World Jewry), curing roles, aims and techniques in traditional Africa 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  
S. Sawchuk, M. Lambek

**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

**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. Such topics as feminine perspectives and images, male/female relationships, and myths and rituals associated with women and with sexuality will be examined in a variety of cultures. Students will have the opportunity to study aspects of this subject in detail in a seminar setting.

Prerequisite: One B-Level course in the Social Sciences or Humanities  
Session: Winter Day  
M. Latta

**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

**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 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 1984-85**

**ANTA03Y Cultures in the Modern World**  
Exclusion: ANTA01

**ANTB01Y Ecological Anthropology**  
Exclusion: (ANTB10)  
Prerequisite: ANTA01

**ANTB03F The Americas: An Anthropological Perspective**

**ANTB07S Comparative Slavery**  
Prerequisite: ANTA01

**ANTB15Y Biological Anthropology**  
Prerequisite: ANTA01 or ANTB14 or Permission of Instructor

**ANTB17F Complex Societies**  
Prerequisite: ANTA01

**ANTB18Y Cultural Evolution**  
Prerequisite: ANTA01 or Permission of Instructor

**ANTB21Y North American Background to Canadian Native Peoples**

<b>ANTB385</b>		
<b>ANTB22Y</b>	<b>Primate Behaviour</b> <i>Prerequisite:</i> ANTA01 or PSYA01 or BIOA03	<b>ANTC27Y</b> <b>Advanced Archaeological Methods: Data Description and Presentation</b> <i>Exclusion:</i> (ANTB27) <i>Prerequisite:</i> ANTB26
<b>ANTB23Y</b>	<b>Comparative Mythology</b>	<b>ANTC28S</b> <b>The Prehistoric Archaeology of Canada</b> <i>Exclusion:</i> (ANTB28) <i>Prerequisite:</i> ANTB38
<b>ANTB24Y</b>	<b>The Organization of Group Cultures</b> <i>Corequisite:</i> ANTA01, a course in Sociology or Geography or Psychology or Permission of Instructor	<b>ANTC29Y</b> <b>Analysis of Archaeological Material</b> <i>Prerequisite:</i> Any B-level course in Archaeology
<b>ANTB26Y</b>	<b>Language and Culture</b> <i>Corequisite:</i> ANTB26	<b>ANTC36Y</b> <b>New Perspective on Human Origins</b> <i>Prerequisite:</i> ANTB14Y or ANTB15Y
<b>ANTB30Y</b>	<b>Political Anthropology</b> <i>Prerequisite:</i> ANTA01	<b>ANTC42Y</b> <b>Native People of Canada</b> <i>Exclusion:</i> (ANTB42) <i>Prerequisite:</i> ANTA01; and one B-level Anthropology course or Permission of Instructor
<b>ANTB32F</b>	<b>Human Diversity</b> <i>Prerequisite:</i> ANTA01; ANTB15 is recommended	<b>ANTC44F</b> <b>Background to Modern Archaeology</b> <i>Exclusion:</i> (ANTB13) <i>Prerequisite:</i> Any B-level course in Archaeology
<b>ANTB39Y</b>	<b>Pre-Industrial Technology</b> <i>Prerequisite:</i> ANTA01	<b>ANTC45F</b> <b>Biomedical Anthropology</b> <i>Prerequisite:</i> ANTB51 and BIOA03; (ANTB39, and ANTB43 or STAB52 or PSYB07 are recommended)
<b>ANTB41S</b>	<b>Fact and Fiction in Anthropology</b> <i>Prerequisite:</i> ANTA01	<b>ANTC46F/S</b> <b>Ethnomedicine</b> <i>Prerequisite:</i> ANTB51
<b>ANTB50F</b>	<b>Field Methods in Archaeology</b> <i>Prerequisite:</i> ANTA01, ANTB26; HISB04 recommended as well	
<b>ANTB52A</b>	<b>Classification and Material Culture</b> <i>Prerequisite:</i> ANTB26	
<b>ANTB53Y</b>	<b>The Anthropology of Sex</b> <i>Prerequisite:</i> None, although an introductory course in Anthropology and/or Biology would be beneficial	
<b>ANTB54Y</b>	<b>Cultures of the Middle East and the Islamic World</b> <i>Prerequisite:</i> none - it is recommended that students have completed one A-level course in the Social Sciences or Humanities.	
<b>ANTB55Y</b>	<b>Systems of Thought</b> <i>Prerequisite:</i> At least one B-level course in social Anthropology	
<b>ANTC02F</b>	<b>The Anthropology of Humour</b> <i>Prerequisite:</i> Any two of the following courses: ANTB02; ANTB20; ANTB24	
<b>ANTC09Y</b>	<b>Research on the Social Behaviour of Non-Human Primates</b> <i>Prerequisite:</i> ANTB22 or Permission of Instructor	
<b>ANTC12F</b>	<b>Frontiers of Anthropology</b> <i>Prerequisite:</i> ANTA01 and one B-level course in Anthropology	
<b>ANTC15F</b>	<b>Theory and Methodology in Social/Cultural Anthropology</b> <i>Exclusion:</i> (ANTC16) <i>Prerequisite:</i> ANTA01 and ANTB20 or Permission of Instructor	
<b>ANTC17Y</b>		

## 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 AST321, 322, 323 and ASTC01. JPAC10 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

### 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 extra-curricular star-gazing.

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  
*M. Duncan*

### 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.

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

*Exclusion:* ASTA02  
*Session:* Winter Day  
*P.P. Kronberg*

### ASTC01H Research Topics in Astronomy

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

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 (Dyer or) Kronberg. The bibliography is dependent upon the topic selected.

*Prerequisite:* ASTA02 or (ASTB01); PHYB01; permission of instructor  
*Session:* Winter Day

## Biological Sciences

### JPAC10Y Relativity and Cosmology

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

Prerequisite: PHYB01; JPMC42, PHYB18F would be desirable  
Session: Winter Day

### Courses Not Offered in 1984-1985

#### ASTB02H Practical Astronomy

Prerequisite: ASTA02 or ASTA03; PHYA03; MATA26 or MATA55

#### ASTB03S Great Moments in Astronomy

Prerequisite: 4 full-course equivalents.

#### ASTB01Y Topics in Astrophysics; and ASTB04F Quantitative Cosmology

Associate Chairman: J.W. Gurd

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, and 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 from 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, or the year-to-year sequence of taking courses.

### Specialist Programme in Biology

Supervisor: C. Nalewajko (284-3218)

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, BIOB12H
  - c Ecology and Environmental Studies: BIOB12Y, BIOB15Y, BIOB43Y, BIOB47Y, BIOB09F, BIOB11Y, BIOB14F, BIOB16S, BIOB17F
  - 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, BIOB11Y, BIOB12H. These five courses may include courses offered on other campuses of the University of Toronto subject to the general regulations (cf. p.00 of 1984/85 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.

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

### Major Programme in Biology

Supervisor: I. Campbell (284-3210)

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 Programmes listed under Chemistry: Major Programme in Biochemistry; Quaternary Studies; Microbiology and Biochemistry; and Neurosciences.

### Specialist Programme in Microbiology-Biochemistry

Supervisors: J. Silver (Microbiology) (284-3211); J. Gurd (Biochemistry) (284-3221)

Recent advances in Microbiology and Biochemistry, such as recombinant DNA technology are being used to advance knowledge in a wide number of biological disciplines as well as in industry and in the biomedical sciences. The Specialist Programme in Microbiology-Biochemistry provides a core group of basic courses as well as a firm basis in several Microbiology and Biochemistry sub-disciplines. Specialist Programme:

First year:

BIOA03Y Introductory Biology  
CHMA02Y General Chemistry  
MATA26Y Calculus or  
MATA27Y Techniques of Calculus or  
MATA55Y Calculus with Analysis

\*If taking CHMB03Y as an option (see below) PHYA03Y should be taken in first or second year

Second year:

BIOB02Y Basic Microbiology  
CHMB05Y Organic Chemistry I and two additional full-course credits from the following, which may be taken in second or third year:  
BIOB05Y Genetics  
BIOB06Y Plant Physiology  
BIOB17Y General and Comparative Physiology  
BIOB19S Biology of Macromolecules  
BIOB49S Biology of Algae



**Third year:**

JBCB35Y Introductory Biochemistry  
JBCB36H Laboratory in Biochemistry  
BIOB48F Bacterial Physiology and Ecology and six full-course credits from the following which may be taken in either the third or fourth year and which must include at least one and one-half course credits in Microbiology (indicated by MPL or \*\*) and one and one-half course credits in Biochemistry (indicated by BCH)  
BIOC01Y Supervised Study in Biology  
BIOC02Y Directed Research in Biology  
\*CHMB03Y Physical Chemistry I  
CHMB02Y Analytical Chemistry  
CHMC03Y Organic Chemistry II  
MPL320Y General Bacteriology  
MPL334Y Introductory Immunology  
\*JBM351Y Introductory Virology  
MGB301Y Principles of Microbial and Molecular Genetics  
any MPL400 series course  
any BCH400 series course.

**Major Programme in Microbiology-Biochemistry**

Supervisor: J. Silver (Microbiology) (284-3211); J. Gurd (Biochemistry) (284-3221)  
Recent advances in Microbiology and Biochemistry, such as recombinant DNA technology, are being used to advance knowledge in a wide number of biological disciplines as well as in industry and in the biomedical sciences. The Major Programme in Microbiology-Biochemistry provides a core group of basic courses for students wishing to combine these disciplines with other areas of interest.

**First year:**

BIOA03Y Introductory Biology  
CHMA02Y General Chemistry  
MATA26Y Calculus or  
MATA27Y Techniques of Calculus or  
MATA55Y Calculus with Analysis

**Second year:**

BIOB02Y Basic Microbiology  
CHMB05Y Organic Chemistry I

**Third year:**

JBCB35Y Introductory Biochemistry  
JBCB36H Laboratory in Biochemistry  
BIOB48F Bacterial Physiology and Ecology and one full-course equivalent (F.C.E.) from the following which may be taken in either the second or third year:  
BIOB05Y Genetics  
BIOB19S Biology of Macromolecules  
BIOB49S Biology of Algae

Students are encouraged to include the following in the course of their studies:  
BIOB06Y Plant Physiology  
BIOB17Y General and Comparative Physiology

**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. 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. Lab fee \$20.00.  
Exclusion: (NSCA02)  
Session: Winter Day  
The Faculty

**JBHB01Y Introduction to Biological Sciences**

An introduction to the central concepts of Biology and their interrelationships.

The course is designed for students with no formal background in Biology but who have acquired some skill in reflection and in writing. Topics will include the functioning of cells and organisms and the relationships of organisms in space and time. The contemporary understanding of biological structures and functions will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies which require biological input for their solution. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods.

Prerequisite: Two full course equivalents in the Division of Humanities or two full course equivalents in Division of Social Sciences and permission of instructor.

Exclusion: (NSCA02Y)

Session: Winter Day

G.R. Williams

**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. Lab fee \$20.00.

Prerequisite: BIOA03

Session: Winter Day

J. Silver

**JBM005 History of Biology**

An examination of selected episodes in the development of biological science with emphasis on such issues as scientific method, social context and the impact on religion.

Session: Winter Day

**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. Lab fee \$20.00.

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. Lab fee \$20.00.  
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 (Protozoa - Urochordata) and will involve classification and study of diversity within groups, with emphasis on functional morphology and evolution. The second term will be devoted to the 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. Lab fee \$20.00.

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. Lab fee \$20.00.

Prerequisite: BIOA03Y

Session: Winter Day

R. Dengler

**BIOB15Y Aquatic Systems**

A lecture and seminar course with optional field work, on the ecology of ponds, lakes and rivers, with special reference to energy transfer in these ecosystems.

Geological background: origin of lakes. Energy balance: light and heat. Properties of water. Circulation and wave motion. Material cycling. Chemistry of fresh waters. Nutrient cycling. Primary production. Phytoplankton population dynamics; seasonal succession. Evolution of lakes. Natural and cultural (man-made) eutrophication. Secondary production. Lake and stream faunas. Effects of pollution. Man's effects on water bodies. Fisheries and applied topics. Two hours of lectures per week. Informal tutorials, seminars by visiting scientists, and field/lab work amount to about two hours per week. In addition, students are expected to write two major essays on assigned topics. Lab fee \$20.00. Prerequisite: BIOA03 and at least one B-level Biology course.

Session: Winter Day

C. Nalewajko (Sparling), D.D. Williams

**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. Lab fee \$20.00.

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 into two sections. The first deals with the structure and replication of DNA and current applications of recombinant DNA technology, i.e., gene cloning. The second concentrates on RNA and protein synthesis. Laboratory exercises include (i) isolation and quantitation of DNA and RNA; (ii) RNA template activity of isolated nuclei; (iii) protein synthesis in a cell-free system; (iv) purification and gel electrophoresis of chromosomal proteins. Lectures and laboratory work. Lab fee \$10.00

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. Lab fee \$10.00.

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. Lab fee \$20.00.

Prerequisite: BIOA03

Session: Winter Day

A.H. Weatherley

**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. Lab fee \$20.00.

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 micro-technique 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. Lab fee \$20.00.

Session: Winter Day

J.H. 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. Lab fee \$10.00.

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* by L. Stryer, W.H. Freeman and Company.

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. Lab fee \$10.00.

Prerequisite: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

J. Gurd

**BIOB47Y Plant Ecology**

A lecture course with laboratory and field work on the ecology of plants. This course is designed for students with some previous experience in ecology courses, and who are majoring in science with primary interests in environmental fields. It will have relevancy to such applied fields as management, impact assessment, forestry and resource ecology – in addition to its basic orientation. The primary emphasis is on plant community structure, distribution, environmental relations, dynamics and energetics. Some attention will be given to historical factors.

The nature of the plant community and its relation to eco-systems; a conspectus (brief) of plant community distributions and their general relations to the physical environment; the structure and analysis of plant communities, illustrated particularly by fieldwork in the local area to apply methods of description and analysis; quantitative methods of analysis and classification of plant communities; historical perspectives; energy flow in the plant community; nutrient and water cycles; applied aspects of plant communities – disturbance factors in technological development. Autecology – the nature of adaptations; ecotypic differentiation, ecological factors in species-level evolution. Lectures, fieldwork, laboratories

Prerequisite: BIOB12

Session: Winter Day

J.C. Ritchie

**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. Lab fee \$10.00. 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. Lab fee \$10.00.

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

Session: Winter Day; alternate years starting Spring, 1984.

**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.

Prerequisite: BIOA03; BIOB15; permission of instructors

Session: Winter Day

C. Nalewajko (Sparling), D.D. Williams

**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

**BIOC13S Environmental Biology of Fish Populations**

Fishes are among the most widely distributed and successful of vertebrates and as such offer great scope for the study of evolution, environmental physiology, ethology and ecology - which are the major themes of this course. A simplified introduction to the study of population dynamics applied to fisheries is also considered.

Prerequisite: BIOB43

Session: Winter Day

A. Weatherley

**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

**Courses Not Offered in 1984-85**

**BIOC24Y Plant Kingdom**

**BIOC05S Advanced Genetics**

**BIOC10S Phytoplankton - Methods and Techniques**

**BIOC11Y Quaternary Plant Ecology**

**BIOC16S Marine Biology: Habitats and Communities**

**BIOC17F Marine Biology: Nutrients and Productivity**

Prerequisite: BIOB08

Prerequisite: BIOB15 or BIOB12

**Chemistry**

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 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 sub-disciplines: Inorganic Chemistry (CHMB01), Analytical Chemistry (CHMB02), Organic Chemistry (CHMB05) 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	Complete
St. George Series	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 PHYA03 early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA02, MATA55 or MATA26 and PHYA03.

Completion of a Specialist or Major Programme in Chemistry can lead to a number 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.

**Specialist Programme in Chemistry**

Supervisor: A. Walker (284-3319)

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:

First year:	General Chemistry
CHMA02Y	Calculus
MATA26Y	
or	
MATA55Y	Calculus with Analysis
PHYA03Y	Physics for the Physical and Life Sciences

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.

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: A. Walker (284-3319)

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:

First year:  
HMA02Y General Chemistry  
IOA03Y Introductory Biology  
ATA26Y Calculus

ATA55Y Calculus with Analysis  
PHYA03Y Physics for the Physical and Life Sciences

Second and Third years:

HMB01Y Inorganic Chemistry I  
HMB02Y Analytical Chemistry  
HMB03Y Physical Chemistry I  
HMB05Y Organic Chemistry I  
JCB35Y Introductory Biochemistry  
JCB36H Laboratory in Biochemistry  
HMC01Y Inorganic Chemistry II

HMC02Y Physical Chemistry II  
HMC03Y Organic Chemistry II  
ATB41F Techniques of the Calculus of Several Variables I

ATB50F Analysis I  
ATB42S Techniques of the Calculus of Several Variables II

ATB55S Analysis II

In addition, CHM447S (St. George) or CH424S (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), 400 series BCH courses.

Note: In addition to the courses noted above an additional Biology course is recommended. OB19S, BIOB17Y, BIOB02Y, (BIOB41Y), OB06Y are particularly appropriate for this programme.

### Specialist Programme in Chemical Physics

Supervisor: R. Poirier (284-3318)

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.

First year:  
CHMA02Y General Chemistry  
PHYA03Y Physics for the Physical and Life Sciences  
MATA26Y Calculus

or  
MATA55Y Calculus with Analysis

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

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, PHYC03F, 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: A.J. Kresge (284-3336)

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:

First year:  
CHMA02Y General Chemistry  
MATA26Y Calculus  
or  
MATA27Y Techniques of Calculus  
or  
MATA55Y Calculus with Analysis  
PHYA03Y Physics for the Physical and Life Sciences

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

"Inorganic/Organic"  
CHMB05Y Organic I  
CHMB01Y Inorganic I  
CHMB02Y Analytical  
CHMC01Y Inorganic II  
CHMC03Y Organic II  
"Physical Organic"  
CHMB05Y Organic I  
CHMC03Y Organic II  
CHMB03Y Physical I  
CHMC02Y Physical II  
MATB41F Techniques of the Calculus of Several Variables I  
MATB42S Techniques of the Calculus of Several Variables II

"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  
"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: A.J. Kresge (284-3336)

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:

First year:  
CHMA02Y General Chemistry  
MATA26Y Calculus  
or  
MATA27Y Techniques of Calculus  
or  
MATA55Y Calculus with Analysis  
BIOA03Y Introductory Biology

Second and Third years:  
CHMB05Y Organic Chemistry I  
CHMC03Y Organic Chemistry II  
JCB35Y Introductory Biochemistry  
JCB36H Laboratory in Biochemistry  
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 PHYA03Y and MATA26 or MATA27 or MATA55 as a pre-requisite.

**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.

The course includes the quantitative description 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, descriptive topics such as introductory organic chemistry are used to round out the course. 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, Lab Fee: \$20.00  
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. Two lectures and one additional period per week to be used for supplementary or remedial work as required.

Prerequisite: CHMA02

Session: Winter Day

**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 two main divisions: classical wet quantitative analysis and modern instrumental 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. Lab Fee: \$20.00

Prerequisite: CHMA02

Other recommended courses: CHMB01

Session: Winter Day

**CHMB03Y Physical Chemistry I**

Introduction to Physical Chemistry, including thermodynamics, electrochemistry and colloid chemistry, quantum mechanics, spectroscopy and chemical kinetics.

The course starts with 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, electrochemistry and colloid chemistry are emphasized.

The kinetic theory of gases provides the major emphasis for the 2nd quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The term ends with a treatment of chemical kinetics.

The text is "Physical Chemistry" by P.W. Atkins. Three lectures a week and occasional tutorials.

Exclusion: PHYB09

Prerequisite: CHMA02; MATA26 or MATA55; PHYA03

Corequisite: MATB41 and MATB42 are strongly recommended but not required. See CHMC02 Physical Chemistry II, however.

Session: Winter Day

**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. 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. Lab Fee: \$20.00  
Prerequisite: CHMA02  
Session: Winter Day

**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.

Two one-hour lectures per week. The text used is: *Biochemistry* by L. Stryer, W.H. Freeman & Co. Publishers

Prerequisite: BIOA03; CHMB05

Session: Winter Day

**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.

Three hours of laboratory plus one hour of lecture each week. Lab Fee: \$10.00

Prerequisite: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

**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. Two hours of lecture per week; seven hours of laboratory per week to be taken in the Spring term. The required text is *Inorganic Chemistry* 3rd edition by J.E. Huheey. Lab Fee: \$20.00

Prerequisite: CHMB01, CHMB02

Session: Lectures: Winter Day

Laboratory: Spring Term - One Day

**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. Lectures, tutorial and laboratory. Lab Fee: \$20.00

Prerequisite: CHMB03; MATB41 and MATB42, or MATB50 and MATB55

Session: Lectures: Winter Day

Laboratory: Spring Term - One Day

### HMC03Y Organic Chemistry II

A 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 the 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.

Two lectures and one four hour laboratory every week. Lab Fee: \$20.00  
Prerequisite: CHMB05  
Session: Winter Day

### HMC45Y Library Thesis

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 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 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 Chem Programmes.

Session: Summer Day, Winter Day

### 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.

Prerequisite: CHMC03

Session: Winter Day

### CHMC51S Special Topics in Synthetic Organic Chemistry

A selection of topics in synthetic organic chemistry. A survey of modern synthetic methods will be emphasized, and some application to the synthesis of particular systems of interest will be included.

The course structure is two lectures per week.

Corequisite: CHMC03

Session: Winter Day

### CHMC52S Special Topics in Organometallic Chemistry and Catalysis

A selection of topics in organometallic chemistry and catalysis. Recent developments are emphasized. It is intended to offer this course every two years, alternating with CHMC48S. 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 in organometallic chemistry and catalysis. The emphasis will be on inorganic chemistry, but a good background in organic and physical chemistry is useful. The course structure is two lectures per week.

Prerequisite: CHMC01

Session: Winter Day

### Courses not Offered in 1984-85

CHMC40F	Kinetics and Mechanism of Chemical Reactions Corequisite: CHMC01; CHMC02; CHMC03
CHMC41S	Structure and Synthesis of Chemical Compounds Corequisite: CHMC01; CHMC02; CHMC03
CHMC48S	Special Topics in Inorganic Chemistry Prerequisite: CHMC01
CHMC50S	Special Topics in Physical Chemistry Corequisite: CHMC02

### Discipline Representative: J. Corbett (284-3182)

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 (284-3182)

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
- 4 CLAB02Y Greek and Roman Tragedy
  - 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
  - One of GRHB25Y – 29Y
  - 6 Three additional full-course equivalents from:  
CLA, GRH, GRK, LAT, HUMB11Y, B22F/S, B23F/S, B24F/S, B25F/S, B61F/S, PHLB40F, PHLB41S, PHLB42F, PHLB43S, FARA10F/S, FARB02F/S, FARB04F/S, FARB05F/S, FARB06F/S. The selection of these must be approved by the Supervisor.

### Major Programme in Classical Studies

Supervisor: J. Warden (284-3144)

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:  
LAT;  
GRHB02Y, B24F/S, B28Y, B29Y;  
HISB61Y;  
CLAB01Y, B02Y, B21Y, B23F/S;  
HUMA11Y, B11Y, B23F/S, B24F/S

#### 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:  
GRK;  
CLAB01Y, B02Y, B21Y;  
FARA10F/S, B02F/S, B04F, B05S;  
GRHB24F/S, B25Y, B26Y;  
HUMA11Y, B11Y, B21Y, B22F/S, B25F/S, B61F/S  
PHLB40F, B41S, B42F, B43S  
\* Excluding GRKB10Y (and B22Y), except with permission of Programme Supervisor
- Students may combine a Major in Classical Studies with a Major in another language for a Specialist Programme in Language and Literature.
- See also the Specialist Programme in Language and Literature.

### Classics

#### 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.

The class will meet three times per week for lecture presentations, but with a seminar every other week in the third hour.

Session: Winter Day

M. E. Irwin 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 Day

#### CLAB23F Christianity in the Greco-Roman World

An examination of the relationship between Christianity with its Jewish origins and the Roman Empire.

Some of the topics discussed will be a history of the relationship between the church and the state, persecution and martyrdom, rival religions, the development of Christian art and architecture, and the influence of Greek philosophy. We

### Greek and Roman History

#### 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, as far as possible, from the Greek authors (in translation) and attention will be given to the discoveries and methods 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

#### GRHB02Y Greek and Roman History from the Death of Alexander to the Gracchi

A study of the emergence and evolution of the Hellenistic Monarchies after the death of Alexander, the development of Rome as a "World Power", and the interaction of the Greek and Roman Worlds.

This course introduces the student to an important period of Classical History in which the Mediterranean world evolved from one of individual city states to the single "world empire" which was the cradle of so many systems characteristic of the West, especially Christianity. One two-hour lecture, and one one-hour tutorial per week. All the tutorials will be led by the lecturer. The lectures will give the necessary background information and some analysis, raising questions to be considered in the tutorials. Questions and dis-

#### 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 translated. This is not primarily a history of the intellectual world, and their literary merits. It should be useful to students of Classics and Roman History. It might interest students of literature.

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

Three lecture/discussions per week, in which students are encouraged to take an active part.

Session: Winter Day

A. Boddington

#### GRHB27Y Studies in Roman History: I

A study of Pompeii as a typical Greco-Roman city, on the basis of primary source material, literary and archaeological.

The city is central to western society; our institutions have their origins in the European world but also to the comparative study of institutions in pre-industrial societies the world over, both past and present. It is intended for students who have some background (necessarily formal) in urban studies; it does not require a knowledge of ancient history. Pompeii is a small Greco-Roman city; but it is also remarkably well preserved for our examination of the structure of the course will be determined by students. A considerable degree of participation will be expected.

Session: Winter Day

J. Corbett



**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, occupations, 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

**Greek**

**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. Four hours a week. Text: *Reading Greek* (JACT Cambridge, 1978).

Exclusion: Grade 13 Classical Greek  
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.

Prerequisite: Grade 13 Greek or GRKA01  
Session: Winter Day  
J. Warden

**GRKB01S Plato: Apology**

A study of *Apology*, Plato's account of Socrates' defense against the charges of religious non-conformity 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.

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. 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 Kefauzidis, of Karolos Koun and the Art Theatre; of seminal composers Theodorakis and Hadjidakis, and their heirs; and of the folklorist Dornna Samiou. The final stage of the course will stress developments of the last decade.

Lectures and seminar discussion. Lectures will be given in modern Greek.

**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

**Latin**

**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 an exploration of the language in its cultural and historical context, and of 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.L. Moreland and R.M. Fleischer, *Latin. An Intensive Course*.  
Exclusion: Grade 13 Latin  
Session: Winter Day  
J. Warden

**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 13 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  
M.E. Irwin

**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 poetry of Catullus but some of the invective and one of the "long poems" will also be examined. After some introductory lectures most classes will be devoted to translating and discussing 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  
M.E. Irwin

**LATB20F Latin Authors II**

Reading and analysis of Latin Texts, prose and verse, with emphasis on appreciation of language and style, and the writer's contribution to the development of the genre.

Texts to be used will be selected annually in consultation with class members.  
Prerequisite: LATB01S  
Session: Winter Day  
J. Warden



## Commerce

### LATB30F-34F 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

Session: Winter Day

Co-ordinator: J. Warden

#### LATC01F-C02S 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: J. Warden

#### Courses Not Offered in 1984-85

**LAB01Y** Greek and Roman Epic

**LAB21Y** Greek and Roman Religion

Prerequisite: HUMA11 or CLAA01 strongly recommended.

**RHB03Y** Roman History from the Gracchi to Nero

**RHB25Y** Studies in Greek History I

Prerequisite: GRHB01, or any related GRH, CLA or HUM course.

**RHB26Y** Studies in Greek History II

Prerequisite: GRHB01, or any related GRH, CLA or HUM course.

Assistant Chairman: H. Babiak

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 and on admission to Programmes. Students who delay until the end of the summer in applying for Programme admission and in balloting for fall-winter courses may find many limited enrolment courses have been filled. Students are advised to check with the Supervi-

sor of Studies about deadlines for Programme application and course balloting.

**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

Supervisor: T.B.A.

The Specialist Programme in Commerce 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, marketing, organizational behaviour, law and management. The Programme allows students to pursue some degree of concentration in a specific aspect of Commerce studies such as accounting, finance or marketing.

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

- 1 Eight full-course equivalents in Commerce including COMA01, COMB01, JCSB27, JCEB72, JCEB73, JCEC02.
- 2 ECOA01, ECOB03, ECOB07 and (ECOB11 and ECOB12) or (STAB52 and STAB57).
- 3 MATA27 or (MATA26 and MATB41/42) or (MATA55 and MATB50/55).
- 4 (CSCA56 and CSCA66) or (CSCA58 and CSCA68).
- 5 Four additional full-course equivalents from courses other than COM, ECO and JCE. Registration in this Programme is limited. Thirty-five students will be admitted annually to the second year of this Specialist Programme. If all thirty-five places in the Specialist Programme in Commerce are not filled, the unfilled places will be allocated to the Specialist Programme in Commerce and Economics or the Major Programme in Commerce. Students will be admitted on the basis of grades in COMA01 and ECOA01 and the student's two best other course grades. (In 1984-85 admission will be based on grades in COMA01, ECOA01 and MATA27 and the applicant's other best course grade.)

#### Recommendations for Area Concentration

Students who wish to pursue some degree of concentration in a specific area of Commerce studies should consider the following lists of recommended courses:

**Accounting:** COMC01, COMC50, COMC60, COMC10, COMC55, COMC15, COMC30.

**Marketing:** COMC06, COMC07, ECOB41, JCEC40.

A course in research methods (SOCB01 or PSYB01).

Other related courses: PSYB10, PSYB12, PSYB11, PSYB50, PSYC15, PSYC16, SOCB13, SOCB15, SOCB23, ANTB16, ANTB17, ANTB19, ANTB32.

**Finance:** JCEC70, JCEC75, COMC01.

Other selected courses: ECOB31, ECOB32, ECOB61, ECOC08, ECOC13, ECOC14.

**Organizational Behaviour:** COMC25, COMC26, COMC10, COMC30, JCEB54.

A course in research methods (SOCB01, or PSYB01).

Other related courses: SOCA01, SOCB02, SOCB04, SOCB07, SOCB10, SOCB13, SOCB16, SOCC07, SOCC13, SOCC22, PSYB10, PSYB12, PSYC15, PSYC16, POLB60, POLC60, ANTB20, ANTB19, ANTB24, ANTB32, ANTB16, ANTB17.

#### Specialist Programme in Commerce and Economics

Supervisor: T.B.A.

Note: Beginning in 1983-84, registration in this Programme will be limited. Thirty-five students will be admitted to the second year of this Programme and selection will be based on grades in COMA01Y, ECOA01Y and the applicant's two best other course grades. In 1984-85 admission will be based on grades in COMA01Y, ECOA01Y, MATA27Y and the applicant's other best course grade.

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, ECOB11 and ECOB12; (see Note C). Students may elect to take STAB52 and STAB57 in place of ECOB11 and ECOB12

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.

Note C: Students who have completed ECOB11 prior to the summer 1983 session are not required to take ECOB12.

### Major Programme in Commerce

Supervisor:

Note: Beginning in 1983-84, registration in this Programme will be limited. Ninety students will be admitted to the second year of the Programme and selection will be based on grades in COMA01Y, ECOA01Y and the applicant's two best other course grades.

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 D)

2 Two full-course equivalents in ECO courses including ECOA01

3 JCSB27

Note D:

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

## 2. CHANGES IN PROGRAMMES

### Major Programme in Commerce

The following requirement is added to the programme effective in the Summer Session 1984:

In addition to the prescribed requirements students will be required to complete at least 5 full-course equivalents from disciplines other than Commerce and Economics, one of which must be at the B or C level.

### 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. Class size is limited to 80 per section.

Session: Winter Day, Winter Evening  
T. Litovitz

### 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.

Class size is limited to 80 per section.

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

### 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: Completion of at least ten courses including 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 Intermediate Financial Accounting

An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation. 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, T. Litovitz

### 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.

ECOB12 is strongly recommended.

Session: Winter Day, Winter Evening

K. Ho

### 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, Winter Evening, Summer Evening

### 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, Winter Evening, Summer Evening

### COMC06S Product Management

This course is designed to give students a focus on the marketing problems associated with the management of a product or product line in the consumer packaged goods industry. The tactical and operational problems associated with the design of new offerings and management of current offerings within the strategic framework of an overall corporate marketing strategy provide the theme of the course. Limited enrolment: 40.

Prerequisite: COMC05

Corequisite: ECOB11 or PSYB07 or SOCB06 or (STAB52 and STAB57).

Session: Winter Day

## COMC07S Market Research

This course is designed to introduce students to a number of experimental and survey techniques being used in market research. Both theoretical and technical considerations will be stressed. Limited enrolment: 40.  
Prerequisite: COMC05, ECOB11 or PSYB07 or SOCB06 or (STAB52 and STAB57).  
A course in research methods (PSYB01 or SOCB01) is recommended.  
Session: Winter Day

## COMC10F Management Control Systems

The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioural implications. Limited enrolment: 60.  
Prerequisite: COMB01, JCSB27  
Session: Winter Evening

## 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  
S. Lerman

## COMC26F Comparative Organizational Behaviour

This course studies the impact on organizational strategies of different environments, discussing among other questions, differences between nations. The course may also deal with societal attitudes in reference to quality of work life. Limited enrolment: 60.  
Prerequisite: JCSB27  
Session: Winter Day

## 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

## 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 the problem of changing prices and accounting for general purchasing power. Limited enrolment: 60.  
Prerequisite: COMC01 and permission of instructor.  
Session: Winter Evening  
H. Babiak

## COMC55S Current Issues in Accounting

The course will deal with a number of topics in current accounting literature, with particular reference to the problem of the development of theories of and for accounting. Topics may also include not-for-profit and government accounting, leases and pensions, and human resource accounting. Limited enrolment: 60.  
Prerequisite: COMC01  
Session: Winter Evening

## 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

## JCEC75S Investments

This course reviews major investment problems, in particular the factors affecting term structure and risk structure of yields on financial claims. Limited enrolment: 60.  
Prerequisite: JCEC02  
Session: Winter Day

## COMC80F/S/H Supervised Reading Course

This course is intended for upper-level students whose interests are not covered in one of the other Commerce courses normally offered. The course will only be offered when a faculty member is available for supervision and the course would only be available to students whose Commerce performance has been well above average. Students interested in this course should consult with the Supervisor of Studies for Commerce well in advance.  
Prerequisite: Permission of Instructor  
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

## Courses Not Offered 1984-85

### COMC25S Organizational Design

Prerequisite: JCSB27

### JCEC70S Advanced Corporate Finance

Prerequisite: JCEC02

COMC07S

JCEC40S

*Discipline Representative:* W. Enright (284-3340)  
Computer Science is the study of the use of computer 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. Theoretical computer science is also concerned with the inherent difficulty of problems that make them intractable by computers. Numerical analysis, data management systems, and artificial intelligence are concerned with the applications of computers to specific problem areas.

The Specialist Programmes in Computer Science and in Computer Science for Data Management prepare a student for graduate study and for a professional position in the computer field. In the Specialist Programme for Data Management there is an emphasis on information system development, an area of increasing importance to business, industry and government.

The Major Programme in Computer Science provides an introduction to some of the main areas of computer science and also provides preparation for a career in the computer field. It is a suitable programme for a student interested in applying computer science techniques to problems from another research area or for a student interested in a career in secondary school teaching.

Students in either the Specialist Programme in Computer Science or the Major Programme in Computer Science should consider the sequence of physics courses PHYA03Y, PHYB03F, PHYB08H. Students who wish to study computing primarily to use computers in their own specialties should begin with CSCA56F and CSCA66S.

Students interested in Computer Studies should also refer to Specialist and Major Programmes in Cognitive Science.

### Specialist Programme in Computer Science

Supervisor: B. Peek (284-3194)

Note: Registration in this programme is limited. Twenty students will be admitted annually to the second year of the programme. Selection will be based on grades in first year courses in Computer Science and Mathematics. There are eleven 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, MATA26Y or MATA55Y, and MATA40F, MATA45S

#### Second year:

CSCB28S, CSCB68F, CSCB58F, or CSCB73F, (MATB41F and MATB42S) or (MATB50F and MATB55S)

#### Third year:

CSCC78F, JMCC51F, MATB44F, STAB52F, STAB57S, MATC51F or MATC60F or MATB49S

#### Third or fourth year:

Two and one-half full-course equivalents to be chosen from the following options: Any two of CSCC64S, 438F, 448S, 465F, 478S; any one of CSC441S, 446S, 451F; and any two of CSCC40S, C44F, C68F, C85S, CSC418H, 434F, 444S, 458S, 468F, 474S, 484F. (Note that only CSCC40S, C64S, C68F and C85S are available at Scarborough; the remaining courses must be completed at the St. George campus).

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

### Specialist Programme in Computer Science for Data Management

Supervisor: B. Peek

Note: Registration in this Programme is limited. Twenty students will be admitted annually to the Second Year of the Programme. Selection will be based on grades in first year courses in Computer Science and Mathematics. There are thirteen and one-half 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, MATA26Y or MATA27Y or MATA55Y, and MATA40F, COMA01Y, ECOA01Y

#### Second year:

CSCB68S, CSCB58F or CSCB73F, CSCB28S, ECOB03Y or ECOB07Y, (MATB41F and MATB42S) or (MATB50F and MATB55S), MATA45S

#### Third year:

CSCC34F, COMB01, STAB52F, STAB57S, MATB44F

#### Third or fourth year:

Two full-course equivalents to be chosen from the following options: One of CSCC64S, CSC438F, 448S, 465F, 478F, JMCC51F and any three of CSCC40S, C44F, C68F, C85S, CSC418H, 434F, 444S, 458S, 468F, 474S, 484F. (Note that JMCC51F, MATB44F, CSCC40S, C68F, C85S, and C64S are offered at Scarborough, while the remaining courses must be completed at the St. George campus).

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

### Major Programme in Computer Science

Supervisor: B. Peek

Note: Registration in this programme is limited. Thirty students will be admitted annually to the Second Year of the Programme. Selection will be based on grades in first year courses in Computer Science and Mathematics. 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 or MATA27Y or MATA55Y, and MATA40F

#### Second year:

CSCB68F, CSCB58F, (MATB41F and MATB42S) or (MATB50F and MATB55S)

#### Third or fourth year:

A total of six half-courses chosen as follows:

(i) at least two of CSCB28S, C40S, C34F, C44F or C68F, C85S, C78F, CSC434F, 444S, 458S, 468F, 474S, 484F

(ii) at least two of MATB44F, JMCC51F, CSCC64S, JMCC31F, JMCC32F, CSC438F, 441S, 446S, 448S, 451F, 465F, 478S

(iii) at most two of CSCB08S, 218F or 318F, 300S

(Note that CSCB28, C34, C40, C64, C68, C78, C85, MATB44, JMCC51, C31, C32 are offered at Scarborough, while all other courses must be ballotted for and completed at the St. George Campus.)

### CSCA56F/S/M Computer Programming

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

The purpose of the course is to introduce students to algorithms and to acquaint them with the capabilities and limitations of computers. The Turing language is introduced as a tool for the precise specification of algorithms for computers, and for their communication to people. Some applications of programming techniques will be considered. Two hours of lecture and one two-hour tutorial per week.

Exclusion: CSCA58

Prerequisite: One grade 13 course in Mathematics

Session: Winter Day, Winter Evening,

Summer Evening

### CSCA58F Introduction to Computing

The specification and formulation of algorithms. Introduction to computer organization. Programming in a high-level language such as Turing. Structured programming. Elementary applications.

The Turing 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. Two hours of lectures and two hours of tutorials per week.

Exclusion: CSCA56

Prerequisite: Grade 13 Functions and Relations,

and Grade 13 Calculus

Corequisite: MATA26 or MATA55 or MATA27

Session: Winter Day

### CSCA66S Programming Applications

Practical approaches to solving problems involving data structures, non-numerical applications and data processing.

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

### CSCA68S Problem Solving With Computers

A continuation of CSCA58. The application of computers to various problems. Elementary numerical methods. Some techniques of data processing. An introduction to computer simulation models and artificial intelligence. Representation and manipulation of graphs. Two hours of lectures, and a two-hour tutorial per week.

Exclusion: CSCA66

Prerequisite: CSCA58

Corequisite: MATA26 or MATA55

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: 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. Enrolment limit: 100

Prerequisite: CSCA68

Session: Winter Day

### **CSCB58F** 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. There will be three laboratory periods in which students will conduct experiments with digital logic circuits. Lab Fee: \$10.00

Enrolment limit: 100.

Prerequisite: CSCA68

Session: Winter Day

Exclusion: CSCB73F

### **CSCB68S** Programming Languages and Their Applications

Introduction to programming language concepts and features. Introduction to formal description of syntax. Language facilities for structuring complex data, list processing, and string manipulation. Control structures. Batch and interactive computing. Concepts of applicative programming. Introduction to proving programme correctness.

Enrolment limit: 100.

Prerequisite: CSCA68

Session: Winter Day

### **CSCC34F** File Structures and Application Systems

Searching techniques including binary trees, B-trees, and hashing. Analysis of efficiency of various sorting and searching techniques. File structures and access methods. Emphasis will be given to the implementation of software for data entry systems, office automation systems, and business applications systems.

Prerequisite: CSCB28

Session: Winter Day

### **JMCC51F** 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 and predicate calculus. Introduction to complexity theory: models of computation, classes P and NP, techniques for efficient algorithms, NP-complete problems, heuristic and approximative algorithms.

Prerequisite: MATB44

Session: Winter Day

### **CSCC78F** Information 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 representations, stacks, queues, 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. Two hours of Lecture and one hour tutorial.

Exclusion: CSCC34 before 1982/83

Prerequisite: CSCB68

Session: Winter Day

### **CSCC85S** Microprocessor Systems

Hardware and software aspects of microcomputers and microprocessors. Instruction sets, addressing modes, memory devices, bus structures. Input/output and interrupt mechanisms. Assembly language and high level language programming. System and applications software. Laboratory experiments will provide hands-on experience. Lab Fee: \$10.00

Prerequisite: CSCB58 or Permission of instructor.

Session: Winter Day

## **Courses Not Offered in 1984-85**

### **JMCC31F** Combinatorics

### **JMCC32F** Graph Theory and Algorithms for its Applications

### **CSCC40S** Information Systems Analysis and Design

Prerequisite: CSCC34F or CSCC78F

### **CSCC68F** Compiler Design

Prerequisite: CSCB58F or CSCB73F, CSCB68S

Exclusion: CSCC44F

## **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.

### **Drama students may like to refer to the following:**

*Interdisciplinary Programmes:* Page 189

*Specialist Programme in the Arts:* Page 190

*Specialist in Co-operative Programme in the Arts:* Page 198

### **Specialist Programme in Drama**

*Supervisor:* M.Q. Schonberg (284-3126)

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
  - DRAB06Y Canadian Drama
  - ENGB10Y Shakespeare
  - ENGB12Y\* English Drama to 1642
  - ENG28F/S\* Drama in English Canada 1920-1970
  - FREB29F/S\* French Drama of the Eighteenth Century

FREB30F*	French Theatre of the Early Modern Period	8	Two full-course equivalents chosen from the following:
FREB31S*	Contemporary French Theatre: The Theatre and the Absurd	ANTA01Y	Introduction to Anthropology
FREB38F/S*	The Theatre of French Canada	ANTA03Y	Cultures in the Modern World
FREB39F/S*	Workshop in Modern French Theatre	ANTB02Y*	Anthropological Study of Religion
FREB41F/S*	French Classicism: The Theatre	ANTB23Y	Comparative Mythology
JHGB50Y	(GERB40Y) The Development of German Drama (in translation)	CLAB01Y	Greek and Roman Epic
HUMB70Y	Introduction to Cinema	ENGA01Y	(ENGA04Y) English Literature: Practical Criticism and Interpretation
ITAB27F*	Modern Italian Theatre from Pirandello to the Present	ENGA08Y	Twentieth Century Literature
ITAB35F/S*	Italian Sixteenth Century Theatre	HISA01Y	The European World: An Introduction to History
ITAB41F/S*	Italian Eighteenth Century Theatre	HUMA01Y	Prologue
JSDB24F	Golden Age Drama	HUMA11Y	Greek and Roman Mythology
* Students should check these courses for prerequisites		LINA01Y	General Linguistics
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).		LINA04F/S	Introduction to Language
DRAB02Y	The Directors' Theatre	MUSA01Y	Introduction to Music
DRAB05Y	The Art and Nature of Comedy	PHLB03F	Philosophy and Art
DRAB06Y	Canadian Drama	PSYA01Y	Introduction to Psychology
DRAB10B	Improvisational Theatre: Commedia dell'Arte	SOCA01Y	Introduction to Sociology
DRAB12B	Medieval and Early Tudor Drama: The Texts and Their Production	* Students should check these courses for prerequisites	
DRAB13B	The Victorian Theatre	** Prerequisite ten full-course equivalents	
DRAC01Y	Advanced Practical Workshop and Elements of Directing	NOTE: No more than ten full-course equivalents in DRA are permitted in the four-year degree.	
DRAC10Y**	Individual Studies in French Theatre and Drama in Translation	<b>Major Programme in Drama</b>	
DRAC11Y**	Individual Studies in German Theatre and Drama in Translation	<i>Supervisor: M.Q. Schonberg (284-3126)</i>	
DRAC12Y**	Individual Studies in Italian Theatre and Drama in Translation	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:	
DRAC13Y**	Individual Studies in Russian Theatre and Drama in Translation	DRAB01Y	An Introduction to the Practical Elements of Theatre
DRAC14Y**	Individual Studies in Spanish Theatre in Translation	DRAB03Y	History of Theatre I
DRAC20Y*/DRAC21Y*/DRAC22Y*/DRAC23Y*/DRAC24Y*/DRAC25F*/DRAC26S*/DRAC27F*/DRAC28S*	Supervised Reading Courses	DRAB04Y	History of Theatre II
The student may take only one of the Individual Studies courses in any single academic year.		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.	
		<b>Group A</b>	
		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
<b>Group B</b>	
CLAB02Y	Greek and Roman Tragedy
DRAB02Y	The Directors' Theatre
DRAB05Y	The Art and Nature of Comedy
DRAB06Y	Canadian Drama
DRAB10B	Improvisational Theatre: Commedia dell'Arte
DRAB12B	Medieval and Early Tudor Drama: the Texts and their Production
DRAB13B	The Victorian Theatre
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)
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 per 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 \$30.00 Session: Winter Day  
L.L. Browne

### DRAB04Y The History of Theatre II

A study of the history of the theatre in the nineteenth and twentieth centuries and study of the non-literary aspects of modern theatre in Europe and North America in the proper historical and socio-political context.

Major topics of concentration will deal with the European Romantic Theatre; The Early Theatre in North America; Melodrama; The Advent of Realism; The Naturalistic Theatre; The Symbolist Trends; The Expressionistic Theatre; The Epic Theatre; Contemporary Theatre. Another area of study will include ballet, opera, and so called "lesser" theatrical forms, i.e. Music Hall, Vaudeville, Burlesque Theatre, Circus. There will be two one-hour classes and a one-hour optional seminar per week.

The text will be Oscar Brockett: *History of Theatre*, Third Edition. Other texts will be announced in the Spring.  
Session: Winter Day  
L.L. Browne

### DRAB05Y The Art and Nature of Comedy

A study of the archetypal patterns of comedy as manifested in different periods and cultures. The students will read representative theoretical works and a survey of comic plays from Aristophanes to the present. These will be looked at with reference to the theory and practice of comedy and to the social aspects of this dramatic form. The types of comedy explored will include political and literary satire, the comedy of ideas, farce and burlesque, the drama of melancholy, and the comedy of the absurd. Seminars.  
Session: Winter Evening  
M.Q. Schonberg



**DRAB10A** 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 Ducharte, *The Italian Comedy*. Other texts will be announced. Four three-hour sessions per week from 6:00 p.m. to 9:00 p.m. Lab Fee \$40.00. Session: Summer Evening

**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*.

Lab fee \$30.00.

Prerequisite: DRAB01

Session: Winter day  
L.L. Browne

**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

Individuals will study under the supervision of members of the appropriate language discipline, and details of course content and evaluation will be arranged in consultation between the student, a member of the language discipline, and the Drama supervisor.

In these courses 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. These courses are 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

**DRAC20-24Y**

**DRAC25F, C26S**

**DRAC27F, C28S** Supervised Reading Courses  
M.Q. Schonberg, L.L. Browne

This is an advanced reading course for drama students. The student wishing to take this course should consult with M.Q. Schonberg, the Programme Supervisor, who will arrange in co-operation with the student a reading list and set the specific requirement for the course.

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

Prerequisite: One B-level full-course equivalent in Drama, and permission of instructor.

Session: Winter Day  
M.Q. Schonberg, L.L. Browne

**Courses Not Offered in 1984-85**

**DRAB02Y** The Directors' Theatre

**DRAB03Y** The History of Theatre I

**DRAB06Y** Canadian Drama

**DRAB12B** Medieval and Early Tudor Drama:  
The Texts and their Production

**DRAB13A** The Victorian Theatre

**JSDB24F** Golden Age Drama

## Economics

Assistant Chairman: S. Howson

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

NOTE: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme, on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to register in the programme at a later date may be admitted at the discretion of the supervisor.

Supervisor: I. Parker

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 desirable for decision-making in business and government.

Students must complete at least nine and a half 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 and a half 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)

ECOB12F

ECOB20F/S or ECOB21F/S or ECOC05F/S

ECOC07F/S

ECOC08F

ECOB66F/S or ECOB68F/S or ECOB81Y or

ECOB82Y

One of ECOC13F or ECOC14S

A Workshop in Economics

A total of four C-level half courses in Economics are required in the programme, including 1 specified above.

Students are urged to take ECOA01Y, CSCA56F or CSCA58F and either MATA27Y or MATA55Y in their first year of time s (or equivalent). MATA27Y is adequate satisfying the mathematics requirements of Programme. However, students considering possibility of graduate work in Economics are urged to take B-level Calculus as well, and take Mathematical Statistics (STAB52F and STAB57S) instead of ECOB11F/S.

NOTE: students taking MATA26 or MATA55 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 taken in the second year of full-time study. Students may petition the Supervisor for permission to substitute other courses for some of listed above.

### Specialist Programme in Economics and Commerce

NOTE: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme on the basis of GP. Those four courses taken to date in which the student's grades are highest (including EC and COMA01).

Please refer to "Commerce and Economics"

### Specialist Programme in Economics and Mathematics

NOTE: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme, on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

**Supervisor:** The Supervisor of Studies in Economics

This Programme is designed for students considering the possibility of graduate work in mathematical economic theory. Students must complete at least fourteen full-course equivalents in Economics, Mathematics, Statistics, and Computer Science. The specific requirements are as follows:

ECO A01Y

MATA26Y or MATA27Y or MATA55Y

MATA40F and MATA45S

CSCA56F/S or CSCA58F

ECOB03Y

ECOB07Y

ECOB13F

(MATB41F and MATB42S and MATB43S) or

(MATB50F and MATB55S)

MATB44F and MATB49S

STAB52F and STAB57S

ECOC13F and ECOC14S

MATC51F

MATC53Y

JCEB72F

JCEB73S

One and one-half other full-course equivalents in ECO or JCE

It is recommended but not required that students include in their programme an additional half-course in computer science and ECOC08.

### Specialist Programme in Economics and Political Science

NOTE: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme, on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to register in the Programme at a later date may be admitted at the discretion of the Supervisor.

**Supervisor:** I. Parker

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:

ECO A01Y

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 sub-fields listed below.

**A** Canadian Government, Public Administration - POLB51F/S, POLB52F/S, POLB53S, POLB54F/S, POLB60Y, POLC50Y, POLC51F/S, POLC6

**B** Political Behaviour - POLB65F, POLB66Y, POLC65F/S

**C** International Relations - POLB80Y, POLB81F/S, POLB82Y, POLC81F/S

**D** Comparative Politics, Industrialised Countries - POLB85Y, POLB86Y, POLB87Y, POLB88Y, POLB89Y, POLC85Y

**E** Comparative Politics, Developing Countries - POLB91Y, POLB92Y, POLB93Y, POLC93F and POLC94S

Related (but not required) 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.

### Specialist Programme in Economics and Quantitative Methods

NOTE: Registration in this Programme is limited to an annual entry of 10 students. Students will be selected to enter the second year of the programme on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to enter the Programme at a later date may be admitted at the discretion of the supervisor.

**Supervisor:** The Supervisor of Studies in Economics

This Programme is designed for students considering the possibility of graduate studies in economics while providing a stronger mathematical orientation than does the Specialist Programme in Economics. Students must complete at least twelve full course equivalents in Economics, Mathematics, Statistics and Computer Science. The specific requirements are as follows:

ECO A01Y

CSCA58F

CSCA68S

MATA26Y or MATA27Y or MATA55Y

ECOB03Y

ECOB07Y

ECOB13S

MATA40F and MATA45S

STAB52F and STAB57S

(MATB41F and MATB42S) or (MATB50F and MATB55S)

CSCB28S or CSCB68F

ECOC13F

ECOC14S

ECOC08F

JCEB72F

One half course from: CCCC34F, CCCC51S, CCCC78F, MATB43S, MATC53Y, STAC52F, STAC42F

One half course from the Workshops in Economics.

### Major Programme in Economics

NOTE: Registration in this Programme is limited. Students will be selected to enter the Second Year of the Programme, on the basis of GPA for those four courses taken to date in which the student's grades are highest (including ECOA01). Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

**Supervisor:** I. Parker

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 and ECOB12F or STAB52F and STAB57S. It is recommended, but not required, that a student also include:

i. One C-level course

ii. One course chosen from ECOB81Y, ECOB82Y, ECOB66F/S, ECOB68F/S

Note: Students who have been admitted to the Programme prior to the summer of 1983 will not be required to take ECOB12.

#### ECO A01Y 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

#### 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. Class size is limited to 80 per section. Exclusion: (ECOB01 and ECOB02) Prerequisite: ECOA01 Session: Summer Evening, Winter Day, Winter Evening



**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. Class size is limited to 80 per section.  
Exclusion: (ECOB05 and ECOB06)  
Prerequisite: ECOA01  
Session: Summer Evening, Winter Day, Winter Evening

**ECOB11F/S Quantitative Methods in Economics I**

An introduction to probability and descriptive statistics. Topics to be covered will include: marginal and conditional probability, statistical independence, the Central Limit Theorem, confidence intervals and hypothesis testing, and some aspects of distribution theory. The theory in this course will be applied to economic problems. The format of the course will be lectures and tutorials. Limited Enrolment: 80 per section.  
Exclusion: ANTB43; GGRB02; PSYB07; SOCB06; STAB52  
Prerequisite: ECOA01  
Session: Summer Evening, Winter Day, Winter Evening

**ECOB12F/S Quantitative Methods in Economics: II**

An introduction to statistics and regression analysis as used in economic analysis. Topics to be covered include: analysis of variance (ANOVA); the simple regression model, testing of hypotheses in the regression model, an introduction to multiple regression. This course will include a series of computer-oriented assignments to give students familiarity with practical problems in regression analysis. Limited Enrolment: 80 per section.  
Prerequisite: ECOB11 or GGRB02 or STAB52 and STAB57; CSCA56 or CSCA58  
Session: Winter Day, Winter Evening

**ECOB13S Application of Mathematics to Economics**

Calculus, linear algebra, and to some extent real analysis will be used to prove some important propositions in economic theory. Some of the results will be extensions or refinements of ideas already discussed in ECOB03 and ECOB07 although the course also covers new ground. The course is designed to give new insight into the performance of economic systems as well as to highlight the role of mathematics in economic theory - as an aid to precise thought and as a powerful tool for simplifying.  
Enrolment Limit: 60.  
Prerequisite: ECOA01; MATA27 or MATB41 or MATB50  
Corequisite: ECOB03  
Session: Winter Day.

**ECOB20F Literature of Political Economy**

A study of the literature of classical Political Economy, especially the work of Adam Smith, Malthus, Ricardo, J.S. Mill, and Marx. Limited enrolment: 60.  
Prerequisite: ECOA01  
Corequisite: ECOB03, ECOB07  
Session: Winter Day

**ECOB21S Literature of Political Economy II**

A study of classical literature of Political Economy between 1870 and the 1930's, especially the work of Jevons, Walras, Marshall, Wickseil and the early Keynes. Limited Enrolment: 60.  
Prerequisite: ECOA01  
Corequisite: ECOB03, ECOB07  
Session: Winter Day  
D. Moggridge

**JEGB27F Location and Spatial Development**

An examination of the use of competitive location theory in the analysis of regional economic growth and decline. Topics include Ricardian rents and spatial equilibrium, trade flows and spatial price equilibrium, geographical market areas and spatial pricing policies, the location of a firm with mobile resources, industry location in equilibrium, trade theory and regional specialization, and the regional growth theories of Borts-Stein and Myrdal.

Two hours of lectures and one tutorial hour per week.  
Exclusion: GGRB27F  
Corequisites: ECOA01 and either GGRA04 or GGRB05  
Session: Winter Day

**ECOB31F 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. Limited Enrolment: 60.  
Prerequisite: ECOB03  
Session: Winter Day  
M. Bucovetsky

**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. Limited Enrolment: 60.  
Prerequisite: ECOB03  
Session: Winter Evening  
M. Bucovetsky

**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. Limited Enrolment: 60.  
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. Limited Enrolment: 60.  
Prerequisite: ECOB03 (ECOB03 will be accepted as a corequisite when ECOB37 is taught in the second term of the winter session)  
Session: Winter Day  
M. Krashinsky

**ECOB41F/S 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. Class size is limited to 60 per section.  
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. Limited Enrolment: 60.  
Prerequisite: ECOB03  
Session: Winter Day  
M. Gunderson

**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. Limited Enrolment: 60.  
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: Completion of at least ten courses including ECOA01.  
Session: Winter Evening

**ECOB61S International Economics: Finance**  
Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange-rate determination in a world of flexible exchange rates; the forward exchange market. The international monetary system: fixed *versus* flexible exchange rates; international capital movements; eurocurrency markets and their implications for monetary policy. Limited Enrolment: 60.  
Prerequisite: ECOB07  
Session: Winter Day

**ECOB62F International Economics: Trade Theory**  
An outline of the standard theories of international trade: analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade; and empirical tests of these theories. Economic growth and international trade. The instruments and effects of trade policy (tariffs, quotas, nontariff barriers); the theory of customs unions. Limited Enrolment: 60.  
Prerequisite: ECOB03  
Session: Winter Day

**ECOB66S Economic Development**  
An introduction to the processes of growth and development in less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry. Limited Enrolment: 60.  
Prerequisite: ECOB03  
Session: Winter Evening

**ECOB66S 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. Limited Enrolment: 60.  
Prerequisite: ECOA01  
Corequisite: ECOB03  
Session: Winter Day

#### **ECOB83Y Economic History 1914-1971**

Between the outbreak of World War I in 1914 and the collapse of the post-1945 international monetary order in 1971, the international economy underwent substantial changes. This course deals with those changes while examining the growth experiences of a number of industrial countries. Although the focus is primarily on European economies the experience of countries such as Japan, the Soviet Union and the United States will be discussed where appropriate.  
Prerequisite: ECOA01Y

**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. Limited Enrolment: 80.  
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. Limited Enrolment: 80.  
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. Limited Enrolment: 60.  
Prerequisite: ECOA01  
Session: Winter Day  
*I. Parker*

**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. Limited Enrolment: 60.  
Prerequisite: ECOA01  
Session: Winter Day  
*J. Cohen*

*ECOB83Y*

**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; ECOB12  
Students who have successfully completed ECOB11 prior to the Summer 1983 session are not required to do ECOB12 as a prerequisite to this course.  
Session: Winter Day, Winter Evening

**ECOC05S The Economics of J.M. Keynes**  
A study of his major works and a consideration of their implications. Modern criticisms and interpretations will be discussed.  
Prerequisite: ECOB03, ECOB07  
Session: Winter Day  
*D. Mogridge*

**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

**ECOC08F Econometrics**  
A formal development of multiple regression analysis using matrix algebra. Topics include the properties of least squares estimators, hypothesis testing, and techniques for diagnosing and correcting misspecified models. A research paper will be required.  
Exclusions: ECO327, ECO357  
Prerequisite: ECOB12, ECOB03, ECOB07, MATA40 or MATB41 or permission of instructor  
Session: Winter Day  
*A. Melino*

**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

**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; 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 macroeconomic models.  
Prerequisite: ECOB03; ECOB07; ECOB11; 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

## English

### 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; MATA26 or MATA27 or MATA55. For ECOC23 and ECOC24, ECOC13 or ECOC14 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. Limited Enrolment: 60.

Prerequisite: ECOB41

Session: Winter Day

R. Saunders

### JCEC75S Investments

This course reviews major investment problems, in particular the factors affecting term structure and risk structure of yields on financial claims. Limited enrolment: 60.

Prerequisite: JCEC02

Session: Winter Evening

### Courses Not Offered in 1984-85

ECOB82Y ECOB45F

ECOB47S Prerequisite: ECOB03

ECOB67S Prerequisite: ECOB66F

ECOC17F ECOC05S

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.

JCEC70S Advanced Corporate Finance

Prerequisite: JCEC02

JCEC40S

*Discipline Representative:* R. Brown

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.

### Specialist Programme in English

*Supervisor:* R. Brown (284-3146)

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

Tudor and Stuart England

(Prerequisite: One B-level course)

HISB23Y Prologue

HUMA01Y 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:* R. Brown (284-3146)

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 tragic-comedy? 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). Session: Winter Day

Staff

### 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*; one other Victorian novel; 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

A. Patenall, J. Kay

### 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, Forster, Hemingway, and Margaret Atwood; plays by dramatists such as O'Neill, Beckett; and a selection of modern poetry. Essays based on the reading will provide practice in university-level writing and training in methods of analysis and exposition. Texts to be announced.

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

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**ENGB05Y Romantic Poetry**

Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study. Relevant prose works by these authors, and selections from other poets of the period, will also be studied.

Further information will be available later in Room H525A.

Prerequisite\*: ENGA01, ENGA02; or ENGB15

Session: Winter Day

H. Jackson

**ENGB07Y Canadian Literature in English: An Introduction**

A study of a wide range of Canadian literature, including works by fiction writers, poets, playwrights and critics, including Callaghan, MacLennan, Laurence, Grove, Davies, and Lampman, D.C. Scott, Klein, Pratt, Birney, Avison, Atwood, and Frye.

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, essays, and plays will be read by the class, but students will be encouraged to read more widely in the works of particular authors through the preparation of essays.

Texts will include Laurence, *Test of God*; Davies, *The Manticore*; Findlay, *The Wars*; *An Anthology of Canadian Literature* (2 vols.)

Session: Summer Evening

R. Brown

**ENGB10Y Shakespeare**

A study of at least eleven plays.

Shakespeare's plays will be studied, both as unique works of art and in the larger contexts of his work as a Renaissance dramatist. A list of texts will be available in H525A.

Session: Winter Day

A. Patenall

**ENGB11Y Varieties of Drama**

A study of drama from ancient Greece to the present day. A wide range of plays will be examined in terms of theatrical convention, dramatic form, genre, theme, and verbal style.

The course introduces students to a wide range of drama through the study of at least five plays. Students are encouraged to think about the relationship between dramatic texts and theatrical production, to consider the relevance of generic labels (e.g. tragedy, comedy, tragic comedy), to make thematic connections among the plays, and to do close textual analysis of some of the plays. Texts will include: Aeschylus, *Agamemnon*, *The Libation Bearers*, *The Eumenides*; Marlowe, *Doctor Faustus*; Shakespeare, *Hamlet*; Jonson, *Volpone*; O'Neill, *Mourning Becomes Electra*; Stoppard, *Rosencrantz and Guildenstern are Dead*; Wilde, *The Importance of Being Earnest*; Pinter, *The Homecoming*.

Session: Winter Day

E.P. Vicari

**ENGB12Y English Drama to 1642**

A historical study of English drama from its beginning in medieval religious plays through the full flowering of Elizabethan and Jacobean tragedy and comedy to the closing of the theatres in 1642.

In addition to selected medieval and Tudor plays, there will be special emphasis on Marlowe, seven plays by Shakespeare, Ben Jonson, Webster, Middleton, Tourneur, and Ford. Some attention will also be paid to staging technique and theatres from medieval times to the Elizabethans. The texts are: Shakespeare, *Comedy of Errors*, *Love's Labour's Lost*, *Richard II*, *Much Ado about Nothing*, *Measure for Measure*, *Othello*, *The Winter's Tale*; Brooke and Partridge, *English Drama 1580-1642*. Summer reading list available later in H525A.

Lectures and discussion periods are supplemented by seminars and, if interest warrants, the production of a short play.

Corequisites: ENGA01, ENGA02; or ENGB11

Session: Winter Day, Summer Evening

J.M.R. Margeson, M.S. Tait

**ENGB14Y Varieties of Fiction**

About 16 works will be studied, including short stories, novels, and novellas.

The focus of the course is not on the historical development of fiction, but on the nature of narrative. We will study such things as the significance of beginnings and endings, the role of the narrator, and the relationship between realism and fantasy.

Texts to be announced.

Session: Winter Day

K. Theil

**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* (Revised). Classes will involve close reading and discussion of selected poems in a seminar group.

Session: Winter Evening

S. Namjoshi

**ENGB17Y Fiction before 1832**

At least twelve works including one or more by each of Richardson, Fielding, Sterne, Austen and Scott.

Further information will be available in Room H525A.

Prerequisite: ENGA01, ENGA02; or ENGB14

Session: Winter Day

W.J. Howard

**ENGB20F Contemporary Literature in English: Africa and the West Indies**

Twentieth century literature of Africa and the West Indies will be traced from its origins to the present day.

Attention will be given to the cultural and political backgrounds as well as to the rhetorical traditions which evidence an influence. The works of the most significant writers will be emphasized: e.g. Achebe, Amadi, Soyinka, Harris, Naipaul, Mittelholzer, Mais.

Exclusion: ENGB28Y; ENGB29Y

Session: Winter Day

W.J. Howard

**ENGB21S Contemporary Literature in English: India and Australia**

The twentieth century literature of India and Australia will be traced from its origins to the present day.

Attention will be given to the cultural and political backgrounds as well as to the rhetorical traditions which evidence an influence. The works of the most significant writers will be emphasized: e.g. Rao, Jhabvala, Narayan, Malgonkar, Keneally, Stow, Stead, White.

Exclusion: ENGB28Y

Session: Winter Day

W.J. Howard

ENGB05F

**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 important works 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 they may be usefully applied to the work of major modern playwrights. Texts will include: Ibsen, *A Doll's House* and *Hedda Gabler*; Chekhov, *The Cherry Orchard*; Strindberg, *Miss Julie*; Brecht, *Galileo*; plays by Pirandello, Shaw, Beckett, Pinter, T. Williams.

Prerequisites: ENGA01, ENGA02; or ENGB11

Session: Winter Day;

A. Thomas

**ENGB32Y Modern Poetry**

An analytical study of poetry from 1900-1950.

The course will explore the modern tradition in 20th century poetry, its beginnings with Yeats, Eliot and Pound and some of its many poetic variations. The interest of the course will focus on the change in poetic theory and practice that took place in the first two decades of this century and on the development of each of the poets studied. In addition, individual poems will be studied in the seminars in greater detail.

Prerequisites: ENGA01Y, ENGA02Y, or

ENGB15Y

Session: Winter Day

S. Namjoshi

**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 context for fiction: truth as relative and subjective; character as a complex of unconscious impulses; time as a fluid continuum; reality as the perceiving mind. The course also examines ways in which modern novelists abandoned or modified old fashioned techniques. Texts include: Hemingway, *The Sun Also Rises*; Conrad, *Lord Jim*; Ford, *The Good Soldier*; Joyce, *A Portrait*; Lawrence, *Sons and Lovers*; Woolf, *To the Lighthouse*; Forster, *A Passage to India*. Students are urged to do some reading in advance and use editions listed in the Bookstore.

Prerequisite\*: ENGA01, ENGA02, or ENGB14

Session: Winter Evening

K. Theil

ENGB34S

**ENGB72F English Literature of the Early Eighteenth Century**

A study of the literature of England in the reigns of Queen Anne and the first two Georges. This is not a "close reading" course. Emphasis will be on the historical, philosophical, political and biographical factors out of which this literature is produced. Authors to be studied include: Locke, Addison, Steele, Defoe, Pope, Swift, Hogarth. Some reference to European literature of the period.

Session: Winter Day

J. Kay

**ENGB73S English Literature of the Late Eighteenth Century**

Although this is not a "theme" course, a good deal of attention will be paid to the experience of Colonial developments and revolution in this period. Authors to be studied include: Burke, Johnson, Boswell, Goldsmith, Burns, Cowper, Smart, Collins, Crabbe, Reynolds, Walpole, Gibbon.

Session: Winter Day

J. Kay

**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. Important 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. Central issues of literary theory are raised by these works and will be discussed in relation to them.

Prerequisites: ENGA01, ENGA02 and two further full-course equivalents in English.

Session: Winter Day

P. Vicari

Note: C-level Courses: Except where otherwise noted enrolment in these courses is limited to 15.

**ENGC14Y Senior Essay**

A scholarly project, chosen by the student and supervised by one faculty member. Approval by the faculty in English must be obtained by the student before the end of the previous spring term.

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 R. Brown. By November 15th a more specific statement of the project is to be sent to Prof. Brown 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

ENG084 - Studies in 20th century literature

Prereq: ENGA01, ENGA02, 3 further  
courses in English, or one of  
ENGB31, ENGB32, ENGB33

**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.

Approval by the faculty in English and the supervisor must be obtained by the student before the end of the previous Spring term.

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

**ENGC20-29F/S or Y Selected Topics in National Literatures: a detailed study of individual authors or a literary movement in a nation's history.****ENGC24Y Literature of the American South**

The South has traditionally been conceived of as a separate and distinctive culture in the U.S. This course will explore the bases and validity of the Southern myth from a broad historical, sociological and geographical perspective while focusing on the poetry, prose and drama of writers in the Southern States. Among the authors and topics to be considered in the present year are: The nineteenth century folklorists and "Reconstruction" novelists; Ellen Glasgow; The "Agrarians"; the "Fugitive" group; Flannery O'Connor; Eudora Welty; Thomas Wolfe; William Styron; William Faulkner; Tennessee Williams; Walker Percy. A complete reading list will be available in May in the Humanities office.

Prerequisites: ENGA01Y, ENGA02Y, and three further full-course equivalents in English; or one of ENGB08Y, ENGB24Y.

Session: Winter Day

J. Kay

**ENGC60-69F/S Selected Topics in Renaissance Literature**

A detailed study of an individual author or a literary movement in the period of the Renaissance.

**ENGC60F Problems in Later Shakespeare**  
Textual and editorial, as well as aesthetic and dramatic problems in later Shakespeare.

Primary texts are *Pericles*, *Cymbeline*, *A Winter's Tale* and the *Tempest*; the new Arden edition of each is preferred. Each student will develop a topic during the term which will be reported on in seminar, before being presented as a written paper at the end of the term.

Exclusion: ENGC10F/S

Prerequisite: ENGA01Y, ENGA02Y and one of ENGB10 or ENGB12

Session: Winter Day

A.J.G. Patenall

**ENGC61S Early Shakespeare**

An examination of five or six Shakespeare plays from the period 1590-96.

These plays are considered in the light of their theatrical and dramatic antecedents, as well as in terms of the Shakespearean drama they precede.

Prerequisite: ENGA01, ENGA02 and one of ENGB10 or ENGB12

Session: Winter Day

A.J.G. Patenall

**ENGC90-99F/S Selected Topics in Twentieth Century Literature**

A detailed study of an individual author or literary movement in the literature of the Twentieth Century.

**ENGC90F D.H. Lawrence: The Shorter Fict.**

A detailed study of characteristic themes and techniques in *St. Mawr*, *The Fox*, *The Captain's Doll*, *The Man Who Died*, and other stories. Emphasis is upon the ways in which Lawrence's ideas are communicated through style, structure, characterization and imagery.

Prerequisite: ENGA01, ENGA02 and three further full-course equivalents in English; or ENGB33.

Session: Winter Evening

M.S. Tait

## Fine Art

### ENG95F George Bernard Shaw

A study of the range of Shaw's dramatic work and of recurring patterns of his ideas. Some attention will be given to his dramatic criticism in *The Quintessence of Ibsenism* and *Our Theatre in the Nineties*. Plays to be read include *Widower's Houses*, *Arms and the Man*, *Candida*, *The Devil's Disciple*, *Heartbreak House*, *Man and Superman*, *St. Joan*. A term paper and a Seminar presentation will be required.

Prerequisites: ENGA01, ENGA02, and three further full-course equivalents in English; or ENGB31.

Session: Summer Evening  
A. Thomas

### ENG96S T.S. Eliot: Selected Poetry and Criticism

A study of developments in Eliot's lyric and dramatic poetry in the context of his criticism.

Session: Winter Day  
M.S. Tait

### Courses Not Offered in 1984-85

- |             |   |
|-------------|---|
| ENGB01Y     | Old English Language and Literature   |
| ENGB02Y     | Chaucer<br><i>Corequisite</i> *: ENGA01, ENGA02; or ENGB15  |
| ENGB06Y     | Victorian Poetry<br><i>Prerequisite</i> *: ENGA01, ENGA02; or ENGB15                                      |
| ENGB08Y     | American Literature: An Introduction  |
| ENGB09Y     | Prose and Poetry of the English Renaissance 1500-1660<br><i>Coerequisites</i> : ENGA01, ENGA02; or ENGB15 |
| ENGB16Y     | Fiction 1832-1900<br><i>Prerequisites</i> : ENGA01, ENGA02; or ENGB14; or HISC21                          |
| ENGB24Y     | Major American Authors  |
| ENGB25F     | The Canadian Short Story  |
| ENGB26Y     | Canadian Poetry in English<br><i>Prerequisite</i> : One full-course equivalent in English                 |
| ENGB27Y     | Canadian Fiction in English<br><i>Prerequisite</i> : One full-course equivalent in English                |
| ENGB34S     | The Short Story   |
| ENGB71F     | Dryden and the Restoration<br><i>Prerequisite</i> : ENGA01, ENGA02; or ENGB15                             |
| ENG70-79F/S | Selected topics in Eighteenth Century Literature  |
| ENG80-89F/S | Selected Topics in Nineteenth Century Literature  |

### Discipline Representative: M. Gervers (284-3346)

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 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. 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 pp. 28 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 for each half-course.

### Fine Art students may like to refer to the following:

*Interdisciplinary Programmes*: Page 189  
*Specialist Programme in the Arts*: Page 190  
*Specialist in Co-operative Programme in Arts Administration*: Page 198

### Specialist Programme in Fine Art History

*Supervisor*: Fall term: Giuseppe Scavizzi (284-3258) Spring Term: L. Carney (284-3179)  
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 art history.
- 4 Two full-course equivalents in cognate fields selected with the approval of the Supervisor.

### Major Programme in Fine Art History

*Supervisor*: R. Siebelhoff (284-3179)  
Students must complete seven full-course equivalents as follows:

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

### Specialist Programme in Fine Art Studio

*Supervisor*: J. Hoogstraten (284-3370)  
Students must complete fourteen full-course equivalents: ten in studio; any two full-course equivalents in art history; and two additional courses in cognate disciplines.

The courses in 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 art history should be chosen in consultation with the Supervisor.

Two additional full-course equivalents are to be chosen in consultation with the Supervisor.

### Major Programme in Fine Art Studio

*Supervisor*: J. Hoogstraten (284-3370)  
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. Visits to R.O.M. and A.G.O.

Session: Winter Day

G. Scavizzi M. Shaw

### **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. Trips to the Royal Ontario Museum.

Exclusion: (FARB24)

Session: Winter Evening

M. Gervers

### **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. Slides and films will be used and visits will be made to the A.G.O. and the R.O.M. The course text is Frederick Hartt, *Art, A History of Painting, Sculpture, Architecture. Vol. II, Renaissance, Baroque, Modern World*. New York, Abrams, 1976.

Session: Winter Day

Instructor ~~T.B.A.~~ G. Scavizzi

### **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.

Session: Winter Evening

L. Carney

### **FARB04F Archaic Greek Sculpture (650-480 B.C.)**

A study of the evolution of Greek sculptural forms up to the classical period.

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

Session: Winter Day

M. Shaw

### **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 to 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 are 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. Representative sculptures will be analyzed technically and stylistically by means of lectures illustrated by slides.

Session: Winter Day

M. Shaw

### **FARB10F Carolingian and Romanesque Art and Architecture**

A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterranean world.

The course will consider the major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the twelfth century. Works will be considered in their geographical context and in relation to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam, and to the art of the invasion period. The importance of monasticism and pilgrimage will also be discussed. Trips to the Royal Ontario Museum. The course texts are: E. Kitzinger, *Early Medieval Art*; G. Zarnecki, *Romanesque Art* K.J. Conant, *Carolingian and Romanesque Architecture*.

Note: This course will not commence until Thursday, 27 September; however, students should register in the usual way.

Prerequisite: FARA11 highly recommended

Session: Winter Evening

M. Gervers

### **FARB19F Michelangelo**

A survey of his activity in architecture, sculpture and painting.

Study will focus on large decorative works and projects like the Sistine ceiling, the tomb of Julius II and the Medici Chapel. The course will emphasize special aspects of Michelangelo's ideas, above all the relationship of the artist with neo-platonism and with the religious trends of his time. Some time will also be spent on Michelangelo's theory of art and on his poetry.

Textbook: C. de Tolnay, *The Art and Thought of Michelangelo*, New York, 1964.

Session: Winter Evening

G. Scavizzi

### **FARB27F Baroque Painting in Southern Europe 1600-1650**

A survey of the major pictorial trends in Italy and France.

The course will concentrate on three main movements: the realism of Caravaggio and his followers (including the young Velazquez); the classicism of A. Carracci and N. Poussin; and the purely baroque style of P.P. Rubens and P. da Cortona. Important components of the culture of the time, such as the development of genre painting (landscape, still life, etc.) and the birth of a classicist art theory will also be discussed. Textbooks: A. Blunt, *Art and Architecture in France 1500-1700*, Harmondsworth 1954; R. Wittkower, *Art and Architecture in Italy 1600-1750*, Harmondsworth 1958.

Session: Winter Day

G. Scavizzi

### **FARB29Y Baroque Painting in the Netherlands**

An examination of portraiture, landscape and still life in the Dutch Republic from ca. 1600 to ca. 1675.

The first few lectures will deal with the geographical and topographical situation around 1600 and will proceed with a historical survey of the area during the seventeenth century. The class will then explore the origins of Dutch seventeenth century painting by looking at innovations which were made in Flanders and Italy in the late sixteenth century and which prepared the way for the Utrecht Caravaggisti. The approach towards the material will be problem-oriented. We will evaluate attributions on documentary, stylistic and iconographic grounds, while attempting to study the works of art of the different artists in an acceptable chronological order. Slides and films will be used, and there will be a visit to the A.G.O. The course text is: Rosenberg, Slive and Ter Kuile, *Dutch Art and Architecture 1600-1800*, Harmondsworth, 1972 (a paperback edition in The Pelican History of Art series). Students will be provided with a bibliography.

Session: Winter Evening

Instructor T.B.A.



**FARB37F From David to Delacroix**  
Painting and sculpture produced in France between the revolutions of 1789 and 1848.

Two dominant artistic movements known as Neo-Classicism and Romanticism will be traced. Special emphasis will be placed on the developments in Paris with its principal painter David and his pupils: Gericault, Ingres, Delacroix. Interpretations of several subject categories will be studied, in particular historical subjects, contemporary political events and portraiture. From the viewpoint of style, the emphasis will be placed on the different approaches by the Neo-Classicalists and the Romantics to identical subjects. The development of landscape painting will also be studied. Use of slides and films, visits to the Art Gallery of Ontario and the Albright-Knox Gallery.  
Session: Winter Day  
Instructor T.B.A.

**FARB43S Impressionism**

The development of Impressionism and its impact on modern art.

The course will commence with an exploration of nineteenth century landscape painting, thus establishing the main sources of Impressionism. Thereafter it will focus on those aspects of the work of Manet and Degas which are essential to the movement. Of equal importance are contemporary theories of colour. The background of the individual members of the Impressionist group will be traced up to the first Impressionist exhibition. The exhibitions between 1874-86 will be discussed, followed by a selective study of the artists during the last decade of the century.

Use of slides and films, visits to the A.G.O. and the Albright-Knox Gallery in Buffalo. Bibliography will include John Rewald, *The History of Impressionism*, N.Y.: MOMA, 1946.

Session: Winter Day  
Instructor T.B.A.

**FARB48F Art from 1900-1950**

A survey of twentieth century European art and architecture.

Cubism and Fauvism in France; the German Expressionists; the rise of abstract painting and sculpture; constructivism and the Bauhaus; Dada and Surrealism. These movements will be discussed in relation to the careers of major painters, and sculptors. There will be weekly two-hour slide lectures, and a trip to the Albright-Knox Gallery in Buffalo.

Pre- or Corequisite: FARA13 recommended but not required  
Session: Winter Day  
L. Carney

**FARB54S New York in the Twentieth Century**  
A study emphasizing major New York painters and sculptors of the first half of this century.

The course surveys art 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.

The class will make a day trip to the Albright-Knox Gallery in Buffalo. Text: S. Hunter and J. Jacobus, *American Art of the 20th Century*, N.Y.: Abrams, 1973.  
Prerequisite: Recommended preparation or companion courses: FARA13 or FARB48  
Session: Winter Day  
L. Carney

**FARB60Y The Arts in Canada: 1670-1960**

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, vernacular architecture and folk art, early modern painters, history of native art.

Visits will be made to important Canadian art collections.

FARA13 is recommended but not required as preparation.

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  
Art History Faculty

**FARC05F/S-FARC20F/S Advanced Studies in Art History**

Detailed studies of specific topics in art history.

**FARC15F Cubism and Related Movements**

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.

Prerequisite: FARB46 or FARB48, and at least one additional half-course in art history.

Session: Winter Evening  
L. Carney

**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.

Limited enrolment: 20  
Session: Winter Day, Winter Evening  
A. 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  
A. 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.\*\*

\*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.

Session: Winter Day, Winter Evening  
J. Hoogstraten, A. Hall



**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. Enrolment limited according to space available and permission of instructor. Lab fee 20.00  
Prerequisite: FARA90 or permission of instructor  
Session: Winter Day  
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. Lab fee 45.00. 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). Enrolment limited according to space available and permission of instructor. Lab fee \$20.00  
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. Enrolment limited according to space available and permission of instructor.  
Prerequisite: FARA90 or permission of instructor  
Session: Winter Evening  
J. Hoogstraten

**FARB81S Drawing from the Figure II**

A continuation of FARB80. Students who have not taken FARB80 should consult the Supervisor. Lab fee \$40.00. Enrolment limit determined by space available and permission of instructor.  
Prerequisite: FARB74 or permission of instructor.  
Session: Winter Evening  
J. Hoogstraten, T.B.A.

**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.  
Lab fee \$45.00. Limited enrolment: 10.  
Prerequisite: FARA90; FARB72 or permission of instructor  
Session: Winter Evening  
D. Holman

**FARB83S Intermediate Lithography**

An extension of FARB82.

The objective of the course is to explore further the art of stone lithography in multi-colour printing. The content and method are the same as for FARB82F. Lab fee \$45.00. Limited enrolment: 10  
Prerequisite: FARB82 and permission of instructor  
Corequisite: FARB74  
Session: Winter Evening  
D. Holman

**FARB85B Intermediate Etching**

A studio course designed to expand the student's knowledge of etching and relief printing. Lab Fee \$90.00. Limited Enrolment: 15.  
Prerequisite: FARB84 or permission of instructor  
Session: Summer Evening  
T.B.A.

**FARB90F/S****FARB91F/S****FARB93F/S****FARB94F/S****FARB95F/S****FARB96F/S 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. 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

**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 must meet with the instructors at appointed times, but they are expected to work independently. Content, method and evaluation to be planned in cooperation with instructor.  
Prerequisite: 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 must meet with the instructor at appointed times, but they are expected to work independently.

Content, method and evaluation to be planned in co-operation 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 1984-85

- FARB02S** Wallpainting in Ancient Egypt and the Aegean Bronze Age (c.a. 3200 B.C. - c.a. 1200 B.C.)  
*Exclusion:* (FARB42)
- FARB06F/S** Ancient Rome  
**FARB11F** Gothic Architecture  
**FARB15F** Renaissance in Italy  
*Exclusion:* (FARB03), (FARB23)
- FARB16Y** The Arts in Northern Europe c.a. 1400-1500  
*Exclusion:* (FARB22)
- FARB41F/S** Architecture in the Western World since 1750  
*Recommended preparation:* (FARA12, FARA13)
- FARB46F/S** Gauguin, Seurat, van Gogh, C(lac)ezanne  
*Exclusion:* (FARB28)
- FARB47F** Nineteenth Century Realism  
**FARB61Y** The Canadian Landscape  
**FARB62F/S** Recent Canadian Art  
*Prerequisite:* Another course in modern art is recommended but not required as preparation.
- FARB77B** Intermediate Painting II  
*Prerequisite:* FARB76 or permission of Instructor
- FARB92Y** Introduction to Sculpture Concepts  
*Prerequisite:* FARA90 or permission of Instructor
- FARC05F/S** Advanced Studies in Art History  
**FARC20F/S** Detailed studies of specific topics in art history.
- FARC05F/S** Classical Art  
**FARC06F/S** Early Medieval Art  
**FARC07F/S** Medieval Art  
**FARC08F/S** The Renaissance  
**FARC09F/S** Advanced Studies in the High Renaissance  
*Prerequisite:* One full course equivalent at the B-level in art history
- FARC10F/S** Italian Renaissance Architecture  
*Prerequisite:* One full course equivalent at the B-level, by permission of Instructor
- FARC11F/S** Frans Hals, Rembrandt and Vermeer  
*Prerequisite:* One full-course equivalent at the B-level in art history, preferably FARB29

- FARC12F/S** Southern Baroque Art: Gianlorenzo Bernini  
*Prerequisite:* One full-course equivalent at the B-level in art history
- FARC13F/S** Eighteenth and Nineteenth Century  
**FARC14F/S** Art Around 1900  
*Prerequisite:* One full-course equivalent at the B-level in art history
- FARC16F/S** Expressionist Trends  
*Pre- or Corequisite:* FARB46 or FARB48 and at least one additional half-course in art history

FARB37F

FARB43S

## French

*Discipline Representative:* J. Bancroft

The courses offered in French are designed primarily for students with Grade 13 in French who wish to continue their study of the language and of the literature of France and French Canada. Such students normally register in B06, which serves to consolidate previous language experience: this course is the prerequisite for all advanced language and literature courses in our programme of French studies.

However, students without Grade 13 who wish to qualify for B06 and subsequent courses or who simply wish to begin their formal study of French, have an opportunity to do so by registering in our FRE A-level language courses, A06 and A16.

Courses may be combined in a variety of ways, providing prerequisite requirements are met, but students intending to pursue a Specialist Programme in French are invited to consider taking both FREB06 and FREB02 in their first year. 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.

In order to extend the range of language courses available, we are introducing a new stream entitled *Practical French*. In 1984-85, French B19Y and B17H will allow students who have completed B06 either to continue in that stream to B16 and thus to C06 or to switch to a more "practical French" emphasis.

Also available in 1984-85 are two courses in French for special purposes, FREA18Y, *Introductory Business French*, and FREB18Y, *Commercial French*.

Students interested in the language and linguistic aspects of French study are invited to consider taking in their programmes LINA05Y, *Practical Language Study*, and/or LINB05Y, *Romance Languages*.

Students interested in literary aspects are invited to consider the relevant courses offered under LIT and HUM.

Students should also consult the entries in the calendar under *Language and Literature* and *Modern Languages*.

The French discipline sponsors three programmes, details of which are given below. In general, students may include only one "civilization" course for credit in the three programmes named below; they may thus take for programme

credit EITHER FREB20 OR FREB21 AND/OR FREC33.

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:* J. Curtis (284-3186)

Students should complete twelve full-course equivalents, including:

- 1 the sequence FREB06Y, FREB16Y, FREC06Y, (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, FREB42Y, 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, 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 more than two courses from the series FRE425 to FRE469, (specialized seminars) offered on the St. George Campus.
  - 3 FREB18 (Commercial French), FREB09 and FREB19 (Practical French).

### Major Programme in French Language

Supervisor: J. Curtis (284-3186)

Students should complete seven full-course equivalents, including:

- 1 FREB06Y, FREB16Y, FREC06Y (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; FREB18Y, FREB25Y, FREB43S, FREB42Y, 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 FREB09, FREB19 (Practical French)

Note: Students intending to pursue their studies in French on the graduate level are advised that this programme does not qualify them for admission to the Graduate Department of French at this University.

### Major Programme in French Language and Literature

Supervisor: J. Curtis (284-3186)

Students should complete seven full-course equivalents, including:

- 1 FREB06Y, FREB16Y, (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, FREB42Y, FREB48Y, FREC06Y, FREC09Y, FREC16Y
- 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 FREB18Y, FREB09Y, and FREB19Y.

Note: Students intending to pursue their studies in French on the Graduate level are advised that this Programme does not qualify them for admission to the Graduate Department of French at this University.

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 I

A basic course in spoken and written French for students who have little or no previous formal training in French.

Four class hours and one language laboratory hour per week.

Exclusion: Grade 12 French or equivalent

Prerequisite: None

Session: Winter Day

F. Mugnier-Manfredi and staff

### FREA16Y Introductory French II

Spoken and written French studies for students who have completed Grade 11 French or equivalent.

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: *Élan*, by Y. Lenard, and accompanying *Cahier de laboratoire*. Regular class attendance and participation are essential.

Exclusion: Grade 13 French or equivalent

Prerequisite: FREA06 or Grade 11 French or equivalent.

Session: Winter Day

J. Kirkness and staff

### FREA18Y Introductory Business French

A basic course in French in a commercial and business context.

The course emphasizes basic skills in reading and writing commercial French.

Note: This course may not count towards any named programme in French.

Prerequisite: Grade 12 French or equivalent.

Session: Winter Evening

Exclusion: FREB06 or equivalent

### 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

Co-requisite: FREB06

Session: Winter Evening

P. Moes

### FREB06B 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.

Exclusion: Native or near-native proficiency in French.

Prerequisite: Grade 13 French or FREA16 or equivalent.

Session: Summer Day

### 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.

Three hours per week of 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. One laboratory period a week specifically designed for oral-aural practice.

For students planning to specialize in French, FREB02 is recommended as a companion course.

Exclusion: native or near-native proficiency in French

Prerequisite: Grade 13 French or FREA16 or equivalent

Session: Winter Day, Winter Evening

L.E. Doucette and staff

### 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.

Exclusion: Native proficiency in French.

Prerequisite: FREB06 or equivalent

Session: Winter Day, Winter Evening

J. Bancroft and staff

### FREB17H Intermediate Conversation II

Intensive practice in the spoken language through controlled situational oral work and discussion groups. This course must be taken with B19Y. Attention will be given to the comprehension of such major regional variants as that found in the Province of Quebec.

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.

Prerequisite: FREB06 or equivalent

Corequisite: FREB19Y

Session: Winter Day

L. Mignault

### FREB18Y Commercial French

The French language in a commercial or economic context.

This course is of interest to students in French, to Business and Economics Majors, and to all who wish to improve their skills, in preparation for entry into a specialized area of the job market. In order to provide the student with the basic elements of commercial techniques as practised in the business communities of Quebec and France, the programme will consist of theoretical and practical sessions. Class meetings will also be devoted to correspondence writing and to exercises that include the vocabulary and structures involved in the language of business.

Note: This course may not count towards a Specialist Programme in French, or the Major Programme in French Language and Literature.

Prerequisite: FREB06, or permission of the instructor.

Session: Winter Day

W.J. Bancroft

**FREB19Y Practical French II**

An intermediate course which continues the practical emphasis of FREB09Y.

*Note:* This course may not count towards any named programme in French.

Exclusion: FREB16Y. Not open to native speakers of French.

Prerequisite: FREB06 or FREB09 or equivalent.

Corequisite: FREB17H

Session: Winter Day

L. Mignault

**FREB25Y Introduction to French Linguistics**

A study of the linguistic structure of French and of linguistic theories from the beginning of the twentieth century as applied to modern French.

Prerequisite: FREB06

Session: Winter day

J. Kirkness

**FREB30F French Theatre of the Early Modern Period**

A study of trends in French drama from the late nineteenth century to the Second World War.

Authors include Jarry, Claudel, Cocteau, Giraudoux, Anouilh and Montherlant.

Prerequisite: FREB06

Session: Winter Day

J. Kirkness

**FREB31S Contemporary French Theatre: The Theatre of the Absurd**

An examination of the philosophical concept of the "absurd" and its influence in modern French Theatre.

Authors studied will include Camus, Sartre, Ionesco, Beckett, Genet and Pinget.

Prerequisite: FREB06

Session: Winter Day

L. Mignault

**FREB34Y From Romanticism to Naturalism**

Man's vision of himself and of society in nineteenth-century French literature, studied through the works of major prose writers, including Stendhal, Balzac, Flaubert and Zola.

The course will be conducted as a seminar, with active participation of the students highly encouraged.

Exclusion: (FREB32); (FREB33)

Prerequisite: FREB06

Session: Winter Day

G. Trembley

**FREB36F French-Canadian Novel to 1945**

A study of major French-Canadian novels from the mid-nineteenth century to the end of the Second World War.

FREB36 is intended for the general student of French as well as the specialist. Much more than its companion course, FREB37 (which students successfully completing FREB36 are strongly advised to take), it deals with historical, cultural and social developments in French Canada.

Some knowledge of Canadian history in the period in question is, therefore, a decided asset.

Prerequisite: FREB06

Session: Winter Day

L.E. Doucette

**FREB37S French-Canadian Novel since 1945**

A study of prose fiction in Quebec in the contemporary period. Some knowledge of Canadian history since the Second World War is very useful. Apart from introductory lectures during the first week or two of classes, this course follows a discussion-seminar format.

Prerequisite: FREB06

Session: Winter Day

L.E. Doucette

**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.

FREB41 is the recommended companion course.

Prerequisite: FREB06

Session: Winter Day

J. Curtis

**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

Session: Winter Day

J. Curtis

**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, and recordings by students themselves.

Basic textbook required: P. Léon, *Prononciation du français standard*. Limited enrolment: 25.

Prerequisite: FREB06

Session: Winter Day

G. Trembley

**FREB70Y The Twentieth Century: In Search of the Novel**

A study of writers primarily concerned with aesthetic and psychological questions in narrative fiction.

The course looks at the works of such authors as Gide, Proust, Breton, Mauriac, Céline, Queneau, Butor and Beckett.

Different approaches to problems of morality, society and human psychology, traditional and less traditional vocabulary and the spatial and temporal architecture of the novel will be examined in the light of an ongoing attempt to modify the shape and content of the traditional novel.

Student instructor interaction will be encouraged in all classes.

Prerequisite: FREB06

Session: Winter Day

S. Mittler (Fall), L. Mignault (Spring)

**FREC06Y Language Practice III**

A continuation of FREB16 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.

Prerequisite: FREB16

Session: Winter Day

Part-time students who are required to take FREC06Y in order to complete their programme, but are unable to do so during the session preferred, are advised that the equivalent course, FRE371, is available to them Winter Evenings at Woodsworth College, St. George Campus.

G. Trembley 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. J. Curtis.

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

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. Classes involve discussion and practical work.

Prerequisite: FREB16

Session: Winter Day

J. Curtis

**FREC22Y Introduction to Medieval French Language and Literature**

An introduction to old French language and the study of representative works in epic, *courtois* and *bourgeois* literature.

The first third of this course will concentrate heavily on the language aspect of the period. Thereafter we shall move rapidly towards a more participatory format, with more and more attention paid to content, as opposed to form. Texts include the *Chanson de Roland*, Chrétien's *Erec et Enide*, *Maistre Pierre Pathelin*, Villon's *Poésies choisies*, and a general text.

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

Session: Winter Day

L.E. Doucette

**FREC23S The French Novel in the Seventeenth Century**

The evolution in the seventeenth century of the novel as a literary form and as a social phenomenon.

After an outline of the historical and literary background of the seventeenth century novel, theories (and theoreticians) of the novel in the classical period will be discussed. In the study of the forms of the seventeenth century novel, the following works will be dealt with in some detail: Sorel, *Histoire comique de Francion*, Scarron, *Le Roman comique*, Furetière, *Le Roman bourgeois*, Mme de La Fayette, *La Princesse de Clèves*.

The teaching method will involve lectures and discussion.

Prerequisite: One B-level course in the group FREB16 - B81, excluding FREB17, FREB18, FREB19, FREB40 and/or FREB41 are strongly recommended as background courses.

Session: Winter Day

J. Bancroft

**FREC24F The French Novel in the Eighteenth Century**

Man's vision of himself and of society in nineteenth-century French literature, studied through the works of major prose writers, including Stendhal, Balzac, Flaubert and Zola.

The course will be conducted as a seminar, with active participation of the students highly encouraged.

Exclusion: (FREC32); (FREC33)

Prerequisite: One B-level course in the group FREB16 - B81, excluding FREB17, FREB18, FREB19. FREB40 and/or FREB41 are strongly recommended as background courses.

Session: Winter Day

P. Moes

**FREC33FFrench 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 Ariès, Bernal, Crozier, Duby, Foucault, Le Roy Ladurie, Touraine, Zeldin, and other scholars.

Prerequisite: One B-level course in the group FREB16 - 81, excluding FREB17, FREB18, FREB19; or permission of instructor.

Session: Winter Day

S.E. Mittler

**Courses Not Offered in 1984-85****FREA07S Elementary Conversation I**

Corequisite: FREA06

**FREA17S Elementary Conversation II**

Corequisite: FREA16Y

**FREB07S Intermediate Conversation I**

Prerequisite: FREA16 or Grade 13 French

Corequisite: FREB06

**FREB09Y Practical French I**

Prerequisite: FREA16 or Grade 13 French or equivalent.

**FREB20Y History of French Civilization**

Prerequisites: FREB06, FREA01

**FREB21S France Today**

Prerequisite: FREB06

**FREB24Y French Thought and Literature in the Age of Enlightenment (1715-1789)**

Prerequisite: FREB06

**FREB26Y The Romantic Current in French Literature**

Prerequisite: FREB06

**FREB29S French Drama of the Eighteenth Century**

Prerequisite: FREB06 (FREA01)

**FREB38F The Theatre of French Canada**

Prerequisite: FREB06 or equivalent

**FREB39S Workshop in Modern French Theatre**

Prerequisite: FREB16 or equivalent language ability.

**FREB42Y General History of the French Language**

Prerequisite: FREB06

**FREB43S The French Language in Canada**

Prerequisite: FREB06.

**FREB49Y The Twentieth Century: The Search for Identity**

Prerequisite: FREB06.

**FREB80F Images of Women in French Literature**

Prerequisite: FREB06

**FREB81S Women's Consciousness in French Literature**

Prerequisite: FREB06

**FREC10S Textual Analysis**

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

**FREC25Y Literature of the Renaissance**

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

**FREC34S Cross-currents in Contemporary French Fiction**

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

**FREC39S French Canadian Poetry**

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

**FREC40Y Modern French Poetry from Baudelaire to Val(lac)ery**

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17, FREB18, FREB19.

## Geography

### Assistant Chairman:

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: J. Miron (284-3130)

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, which must include:

- 1 GGRA04Y and GGRA05Y
- 2 One full-course equivalent from GGRB30F, GGRB31S and GGRC24F/S
- 3 GRC12F/S
- 4 At least three full-course equivalents from GGRB01Y, GGRB05Y, GGRB13Y, GGRB17Y, GGRB24Y, GGRB27F, GGRB28S and GGRB29Y

5 At least two and one-half full-course equivalents from GGRC01Y, GGRC04F/S, GGRC13F/S, GGRC18F/S, GGRC20F/S, GGRC24F/S, GGRC29F/S, GGRC31F/S, GGRC33Y, and GGRC34F/S. *Note:* GGRC01Y is strongly recommended.

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 which must include:

- 1 GGRA04Y and GGRA05Y
- 2 One full-course equivalent from GGRB30F, GGRB31S and GGRC24F/S
- 3 GGRC12F/S
- 4 At least three full-course equivalents from GGRB01Y, GGRB03Y, GGRB15Y, GGRB19Y, GGRB24Y and GGRB29Y
- 5 At least two and one-half full-course equivalents from GGRC01Y, GGRC05F/S, GGRC24F/S, GGRC25F/S, GGRC28Y, GGRC29F/S, GGRC30F/S, GGRC32F/S and GGRC35F/S, and GGRC36F/S. *Note:* GGRC01Y is strongly recommended.
- 6 Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

### Major Programme in Geography

Supervisor: J. Miron (284-3130)

The Major 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 Economics, Biology or History. It is also an appropriate supplement to Specialist Programmes in these areas.

The requirements for this Programme are seven full-course equivalents, which must include:

- 1 GGRA04Y and GGRA05Y
- 2 Either GGRB30F or GGRB31S
- 3 At least two full-course equivalents from Geography B-level courses, other than GGRB30F, GGRB31S
- 4 At least two full-course equivalents from GGRC04F/S, GGRC13F/S, GGRC18F/S, GGRC20F/S, GGRC28Y, GGRC29F/S, GGRC31F/S, GGRC33F/S, GGRC34F/S, GGRC36F/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.

Session: Winter Day  
E.C. Relp, R. Harris

### 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.

Session: Winter Day

B. Greenwood

### GGRB01Y Geography of Resources

The basis for understanding resource development policies and environmental management strategies. Problems of resource use and environmental management are examined generally in their global context, and specifically with reference to Canadian circumstances and policies. Issues discussed will include population growth and quality, world food problems, global energy, water resource management in Canada, and conservation strategies.

Prerequisite: GGRA04 or GGRA05.

Session: Winter Day

### GGRB03Y Climatology

A scientific analysis of Earth's climate through study of the governing physical and dynamical controls. The first term focuses on basic elements of Earth's meteorology. Major topics include: atmospheric composition, nature and significance of atmospheric radiation, physical controls on surface and global energy budgets, atmospheric moisture and cloud development, and atmospheric motion, including air mass and front concepts and upper air circulation.

The second term examines Earth's major climates. Topics include comparisons and contrasts of: mid-latitude temperate climates, and Asian/African monsoons. The remainder of the term is devoted to an examination of the nature and theories of climatic change. Two hours of lectures per week plus an additional lab/tutorial hour as needed. Lab fee \$20.00.

Prerequisite: GGRA05

Session: Winter Day

### GGRB05Y Urban Geography

An introduction to the geography of the North American city, emphasizing the importance of historical development to our understanding of the present.

The first half of the course looks at cities as reflections of, and influences upon, North American society. The second half deals with the internal organization of the city, with the operation of the land market, patterns of residential, commercial and industrial land use, with planning and urban politics. Examples will be drawn in part from Canadian cities.

Session: Winter Day

R. Harris

### GGRB13Y Modern Urban Landscapes

The architectural and planning history of twentieth century urban landscapes, and the ways in which places and landscapes can be appreciated and designed. In the fall term the development of modern architecture and planning from 1880 to the present will be examined. In the spring term emphasis is on the critical evaluation of modern built-environments. Field trips in the Fall Term. Assignments will be based on field investigations.

Prerequisite: GGRA04; students with GGRA05 admitted with permission of instructor.

Session: Winter Day

E.C. Relp

**GGRB17Y Rural Geography**

The geography of rural environments in the context of an urbanizing world. Topics will include concepts of rurality, the evolution, elements and patterns of rural settlement, the rural resource base, agricultural land use, problems of contemporary change in rural society, economy and landscape; the rural urban fringe, the recreational use of rural areas and rural policy problems.

The aims are to acquaint students with some of the recent literature on the subject, and to introduce them to the methodological and conceptual patterns of studying rural areas.

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. Field excursions, laboratories, lectures. Lab fee \$20.00.

Prerequisite: GGRA05

Session: Winter Day

B. Greenwood

**GGRB24Y Environmental Pollution**

The physical causes of environmental degradation 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 residues of human population affect the quality of natural systems.

Session: Winter Day

A.G. Price

**JGGB27F Location and Spatial Development**

An examination of the use of competitive location theory in the analysis of regional economic growth and decline. Topics include Ricardian rents and spatial equilibrium, trade flows and spatial price equilibrium, geographical market areas and spatial pricing policies, the location of a firm with mobile resources, industry location in equilibrium, trade theory and regional specialization, and the regional growth theories of Borts-Stein and Myrdal.

Two hours of lectures and one tutorial hour per week.

Exclusion: GGRB27

Corequisites: ECOA01 and either GGRA04 or GGRB05.

Session: Winter Day.

J. Miron

**GGRB28S Geography and Development**

An examination of the major theoretical perspectives on socio-economic development and the explanations of geographical phenomena each entails. The focus of the course will be upon certain geographical aspects of socio-economic change in the contemporary Third World.

Growth theory and other narrowly economic perspectives on development, modernization theory, Marxist and Neo-Marxist perspectives will figure prominently amongst the theoretical perspectives critically discussed in the course. The implications of each for the analysis of spatial inequality and the formulation of urban and regional policy will be stressed.

Prerequisite: GGRA04Y or another A-level course in Social Sciences

Session: Winter Day

**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 survey and agriculture. Problems of soils in Arctic and Sub-Arctic environments.

Soils of arid and semi-arid lands; irrigation

salinization, reclamation. Lab fee \$20.00.

Prerequisite: GGRA05; Students with GGRA04Y admitted with permission of instructor.

Session: Winter Day

R.B. Bryan

**GGRB30F Geographic Methods**

An introduction to basic methods employed in geography, including data handling, graphic representation, map and air photo interpretation and field survey techniques.

The aim of the course is to provide students with skills needed for the analysis of geographical problems. A one-hour lecture and two-hour laboratory each week. Lab fee \$10.00.

Prerequisite: GGRA04 or GGRA05

Exclusions: GGRB25

Session: Winter Day

**GGRB31S Data Analysis in Geography: An Introduction**

Topics include probability models, frequency and sampling distributions, population parameters and statistical estimation, hypothesis testing, correlation and regression analysis, sampling theory, and analysis of variance. Applications to Geography include spatial sampling, trend surfaces, evaluation of spatial patterns, and spatial auto-correlation. Extensive use is made of a package of computer programs for statistical analysis.

Two hours of lectures and one tutorial hour per week.

Exclusion: Any university-level half or full course in statistical methods

Prerequisite: GGRA04 or GGRA05 or GGRB05Y or GGRB24Y

Session: Winter Day

J. Miron

**GGRC01Y Supervised Research**

A research project under the supervision of a member of faculty. Students must identify a topic and obtain the approval of their intended supervisor before registering in this course.

Frequent subsequent discussion with the supervisor is expected. The research may be based upon the results of library or archival investigations, field studies, data analysis or other appropriate methods. It will culminate in a written report or dissertation of a professional quality in its presentation, submitted on or before March 31. This will be evaluated by at least two members of faculty, and the student may be asked to defend the dissertation at an oral examination.

Prerequisite: Any fifteen full-courses equivalents; at least five geography full-courses including one full course equivalent from GGRB30, GGRB31, GGRC24

Session: Winter Day

**GGRC04F Urban Residential Geography**

An examination of the residential geography of North American cities, with an emphasis on the Toronto Metropolitan area.

In the lectures patterns of residential land use will be discussed, together with their causes and their social and political consequences. Within this framework, topics will include the separation of home from work; class, ethnic and gender segregation; neighbourhood change; suburbanization and whitepainting. In research projects students will be given the opportunity to apply these ideas to Toronto.

Prerequisite: GGRB05 and GGRB30

Session: Winter Day

R. Harris

**GGRC05S Theoretical Geomorphology**

Theoretical models of landscape evolution in relation to recent experimental and field studies on geomorphological processes. Seminar and project work with considerable reading assignments. Limited enrolment: 20

Prerequisite: GGRB07 or GGRB15, GGRB31 is strongly recommended.

Session: Winter Day

B. Greenwood

**GGRC12S Philosophy and Geography: Contemporary Issues**

An examination of the different philosophical approaches adopted either explicitly or implicitly in geography - the philosophy of science and scientific method, pragmatism, marxism, phenomenology. Divisions and connections between physical and human geography. Concerns about the misuse of geographical knowledge, environmental ethics, the limits to technical thinking, uncertainty, holistic knowledge, social and environmental knowledge.

The aim of this course is to disclose the implications of the various ways of thinking geographically, and, in the context of the geography programmes, to discuss the relationships between these.

Prerequisite: Any ten FCE's; by the end of the year in which this course is taken at least five other FCE's in Geography must have been completed.

E.C. Reilph



**GGRC13S Urban Political Geography**

A geographical approach to the politics of contemporary cities. Emphasis will be placed on North American, and especially Canadian cities since 1945.

Lectures will review recent trends in political activity, the causes of these trends and their social consequences. Topics to be discussed will include the nature and organization of the state, especially at the local level; the political powers of the property industry, of planners, of business, labour, and community based organizations; reform movements. Throughout, emphasis will be placed on the ways in which the geography of the cities and local government have shaped, and been shaped by, urban political activity.

Prerequisite: GGRB05Y, also GGRB30 and GGRC04 are recommended.

Session: Winter Day.

R. Harris

**GGRC18F Urban Transportation Policy Analysis**

This course examines current problems in urban transportation planning using a policy-analytic framework. Topics include the setting of community goals, economic and social cost-benefit analysis, evaluation of redistributive impacts, impacts of transport projects on land values and urban form, travel demand forecasting, congestion, travel time valuation, mass transit subsidies, pollution from traffic, and energy use in alternative transportation systems.

Two hours of lectures and one tutorial hour per week.

Prerequisite: GGRB05 or GGRB27 or JGEB27

Session: Winter Day

J. Miron

**GGRC20F Rural Planning and Development**

The special problems of rural settlement and land use in the modern world and of associated planning and development policies. Emphasis will be placed upon the role of government policy in the shaping of rural landscapes and societies.

The main topics will include agricultural and rural development programmes, policies for marginal and remote areas, agricultural land preservation, rural landscape conservation, rural settlement strategies. Examples of particular policies and programmes will be used as case studies in workshop sessions.

Prerequisite: GGRB17Y or one B-level course in Economics or Political Science

Session: Winter Day

M.F. Bunce

**GGRC24F Advanced Quantitative Methods in Geography**

This course covers Monte Carlo simulation, smoothing, filtering, clustering, re-expression, PLUS and PRODUCT Analysis, multiple regression, spectral analysis, trend surface analysis, and nominally-scaled variables. An intuitive and non-rigorous approach is used to highlight problems and potential statistical approaches.

Two hours of lectures and one tutorial hour per week.

Prerequisite: A University level half-course in quantitative methods such as GGRB31 or equivalent.

Session: Winter Day

J. Miron

**GGRC28Y The Hydrology of Surface and Sub-surface 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. Two one-hour lectures and one one-hour laboratory per week.

Prerequisite: GGRB03 or GGRB19 or GGRB24; GGRB31S

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. One two-hour seminar each week plus individual consultation.

Prerequisite: One of GGRB01, GGRB13, GGRB17, GGRB28

Session: Winter Day

M.F. Bunce

**GGRC30S Boundary Layer Climates**

An examination of radiative and surface energy exchanges in the lowest 2 km of the Earth's atmosphere (the boundary layer). Instrumental measurements of radiative and mass fluxes (e.g. water vapour) are linked to type of surface and behaviour of vegetative cover. Leaf temperature, soil moisture status, leaf area, etc. are related to environmental parameters and their role in the local surface energy balance is shown.

Specific topics include: solar and longwave radiation balances over different surfaces, penetration of solar radiation in plant communities, effect of soil moisture on stomatal behaviour, and models of water vapour and carbon dioxide transport. Two hours of lectures per week and practical sessions.

Prerequisite: GGRB03

Session: Winter Day

**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. Two hours of lectures and one hour tutorial per week.

Prerequisite: GGRB05 or GGRB27F or JGEB27

Session: Winter Day

J. Miron

**GGRC33F Africa: A Geographical Perspective**

This course will examine certain of the prominent social and environmental issues relating to the contemporary African situation which are of particular interest to Geographers.

Topics will include population growth and movement; desertification; rural development; political organization and instability; industrialization; and the political economy of Southern Africa.

Prerequisite: GGRB01Y or GGRB28S, or one B-level course in Economics or Political Science

Session: Winter Day

**GGRC34F**

**GGRC36F Pleistocene Geomorphology**

Centered around the theme "Morphology and Process" evaluates landscape change during the Pleistocene Epoch. 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.

Limited enrolment: 25

The teaching method will consist of field excursions, lectures, laboratories. Lab fee \$10.00.

Exclusion: GGRB07Y

Prerequisites: GGRB19; GGRB31 is strongly recommended.

Session: Winter Day

B. Greenwood

**Courses Not Offered in 1984-85****GGRB15Y Coastal Geomorphology**

Corequisite: GGRB19Y; GGRB31S is strongly recommended

**GGRC25F Sedimentary Models**

Prerequisite: GGRB15; GGRB19

**GGRC32S Research Seminar in Soil Management**

Prerequisite: GGRB29 (or GGRC15)

**GGRC34F Landscape Interpretation**

Exclusion: (GGRC17)

Prerequisite: GGRB13 and GGRB30

**GGRC35H Hillslope Geomorphology**

Prerequisite: GGRB19. GGRB03 is strongly recommended.

Corequisite: GGRC28



## Geology

*Discipline Representative:* K. Howard (284-3336)  
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 on the Scarborough Campus should register in the Terrain and Environmental Earth Sciences (TEES) Programme. Further details on the Geology programme at the University of Toronto can be obtained from the Discipline Representative.

### **GLGA01Y Planet Earth: an Introduction to Geology**

Fundamental concepts of physical and historical geology are discussed in the context of the Earth as a planet. The first part of the course deals with the composition, structure and origin of the Earth and the physical processes that operate on and in it. The second part details the chronological succession of physical and biological events on the Earth as revealed in the rock record.

Students with a credit in this course cannot take GLGA02S. Lab Fee: 20.00

Prerequisite: None, but one Grade 13 course in Mathematics and Grade 13 Chemistry or Biology or Physics are recommended.

Session: Winter Day

*Exclusion: GGRA05Y*

### **GLGA02S Geology in the Urban Environment**

The course is designed to show the relevance of 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 interaction 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.

Session: Winter Evening

### **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 (Enrolment Limit of 20 persons)

### **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: GLGA01Y or GGRA05Y

Session: Winter Day

### **GLGC01Y Fundamentals of Hydrogeology**

The course adopts a multi-disciplinary approach to the problems facing the practising hydrogeologist. Principal subjects include: mechanics of groundwater flow; hydrometry and water resources assessment; groundwater hydrology; water quality and hydrochemical processes; exploratory drilling; aquifer test pumping; and borehole and surface geophysics.

Throughout the course, emphasis is placed upon the need to combine an appreciation of the basic theoretical concepts with an understanding of their application to real situations in a wide range of hydrogeological regimes.

Prerequisites: GLGA01Y or GGRA05Y, CHMA02Y, MATB42S or MATB55S

Session: Winter Day

### **GLGC02S Applied Glacial Geology**

The emphasis is on providing the student with a hands-on experience. New advances in glacial geology will be employed in a wide range of industrial settings, involving mineral exploration, geological engineering and foundation engineering, site investigation hydrogeology, and aggregate assessment. Practical field, laboratory, and project work is stressed. The course includes a site visit to the Athabasca Glacier.

Prerequisite: GLGB02S, or GGRB07Y, or GLG326F, or by permission of the instructor.

Session: Winter Day

## German

### **GLGC03H or Y Research Project**

This course is designed to give students experience in the design, implementation, and reporting of a substantial research project involving laboratory and/or fieldwork. Existing faculty research allows a broad range of possible topics. The project may be designed as a half or full course and should be undertaken after the end of the 3rd Year, subject to faculty availability. Faculty permission and supervision is required and the course is only open to those students who have either completed or are undertaking specialist courses in the area of intended study.

Session: Winter Day

### **GLGC04S Quaternary Stratigraphy**

Quaternary geological history of North America and other parts of the Northern Hemisphere in the light of terrestrial and deep-sea sediments. Definition and stratigraphic classification of the Quaternary Period, physical and biological methods of correlation, chronometric techniques, contributions of tephrochronology and palaeomagnetism to Quaternary geochronology, late Cenozoic palaeotemperature record derived from studies of glacier ice, continental, and marine sediments.

Prerequisites: GLGB02S, and GLG326F or GGRB07Y offered in alternate years; offered in 1984-85

Session: Winter Day

*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 is a Major Programme in German Language. Students of German are encouraged to take courses in Fine Art, History, Humanities, Linguistics, Philosophy and in other languages as an enrichment of their programme. Courses in *German Literature* in translation are listed under Humanities and Literature.

### **Major Programme in German Language**

*Supervisor:* H. Wittmann (284-3197)

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

LINA05Y Practical Language Study

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.

The **Specialist Programme in German Area Studies** and the **Major Programme in German Language and Literature** have been deleted.

Students presently enrolled in these programmes will be able to complete their studies according to the old rules. Courses in **German Literature in the original** will continue to be available under the rubric of Supervised Reading.

**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. 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.

Corequisite: GERB19

Prerequisite: Grade 13 German or GERA09 and A10

Session: Winter Day

*U. Sherman*

**GERB24F 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.

Session: Winter Day

*U. Sherman*

**GERB33S Practicum in the History and Structure of the German Language**

A seminar on the history of the German language from the Middle Ages to the present.

Working with representative texts from the various historical periods, students will come to a better understanding of the modalities and structures of contemporary German.

Prerequisites: Grade 13 German OR GERA09 and GERA10

Session: Winter Day

*D. Woods*

**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. Ohlendorf*

**GERC10Y Advanced Composition and Conversation**

A continuation of language work done in GERB19Y and B20Y.

A variety of language exercises will be centered around different texts. A review of grammar and syntax on an advanced level will reinforce the students' ability to read, write, speak and translate. Material on current events will be used to spark class discussion and encourage oral and written analysis in German. The course intends to further the students' ability to write and converse in German with ease and fluency.

Prerequisite: GERB19 and GERB20

Session: Winter Day

*U. Sherman*

**GERC50Y Advanced Language Practice**

A continuation of language work done in German C10Y.

This course is intended for students who want to specialize in German language and want to enhance their fluency. Texts of some degree of complexity will be read and analyzed. Special emphasis will be put on the attainment of idiomatic fluency in a variety of contexts both of a practical, career-oriented and a literary nature. Students' needs and objectives will help determine the content of the exercises.

Prerequisite: GERC10Y

Session: Winter Day

*H. Ohlendorf*

**GERC30, 33, 43F****GERC36, 40, 46S****GERC48Y Supervised Reading**

Courses are designed to give students an opportunity to study German Literature in the original and 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.

Prerequisite: GERB19 and GERB20

Session: Winter Day

*Staff*

**Courses Not Offered in 1984-85**

**JHGB50Y** The Development of German Drama  
*Exclusion:* (GERB40)

**JHGB51Y** Masterpieces of the German Novel from the 18th Century to the Present  
*Exclusion:* (GERB40)

**JHGB52F** The Holocaust in German Literature

## Greek

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  
GRHB02Y Greek and Roman History from the death of Alexander to the Gracchi  
GRHB24S Ancient Historiography  
GRHB27Y Studies in Roman History: Pompeii  
GRHB29Y Studies in Roman History: Roman Britain

For further information see under Classical Studies.

## History

*Discipline Representative:* J. Kenyon (284-3141)

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:* M. Eksteins (284-3346)

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 ten 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

HISC12Y\* The Renaissance in Europe

HISC14Y\* The European Mentality in the Early Modern Period

HISC32Y\* The American Colonies and the British Empire

The Crusades

HISC62Y\*

#### 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:* M. Eksteins (284-3346)

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 seven 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

HISC12Y\* The Renaissance in Europe

HISC14Y\* The European Mentality in the Early Modern Period

HISC32Y\* The American Colonies and the British Empire

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, M. Eksteins

### **HISA02S The Twentieth Century World**

The background to the international conflicts and national tensions which fill our daily news.

This course concentrates on major political and social problems; explores the disintegration of the great European empires and the formation of a new balance of power between western, communist, and third world powers; examines the practice of democracy and dictatorship within nations; investigates the impact of scientific and technological change on the world economy and on morality.  
Session: Winter Day  
W. Dick and Staff

### **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.

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. 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. Two hours of lectures and one tutorial hour per week. Regular attendance at and participation in tutorials are required.  
Session: Winter Day, Winter Evening  
J.S. Moir

### **HISB06Y Europe in the Middle Ages**

A chronological survey of economic, political, religious and social developments in Western Europe (including Britain) from the late Roman period to the fifteenth century.

The object of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization and subsequent expansion of Europe. Particular attention is paid: (i) to the peculiar circumstances which determined national boundaries and which led to the divisions and conflicts of the modern world, and (ii) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, *The World of Late Antiquity*; G. Duby, *Rural Economy and Country Life in the Medieval West*; D. Hay, *The Medieval Centuries*; R.W. Southern, *Western Society and the Church in the Middle Ages*; and others. Two hours of lectures and one tutorial per week.  
Session: Winter Day  
M. Gervais

### **HISB10F Women in the Western World from the Renaissance to the Present**

The place of women in European and North American societies, and the historical debates over women's place.

Topics will include the family economy, education, marriage and childrearing patterns, the public sphere (e.g. political life and the paid labour force), and legal rights. The Renaissance and early modern periods will be presented as background; emphasis will be on the period after 1750.

There will be one two-hour lecture and one tutorial session per week. Students will write one research paper on a topic of their choice, based largely on primary sources.  
Prerequisite: One of HISA01Y, HISB02Y, HISB03Y, HISB04Y, or JHSA01Y  
Session: Winter Day

### **HISB13Y Europe in the Reformation Era 1450-1650**

An examination of major themes in early modern 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.  
Prerequisite: HISA01  
Session: Winter Evening

### **HISB14F 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.

Two hours of lecture and one tutorial per week.  
Exclusion: HISC14  
Prerequisite: HISA01  
Session: Winter Day  
J.L. Pearl

### **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. Two lecture hours plus tutorial per week.  
Prerequisite: HISA01 or permission of instructor.  
Session: Winter Day

### **HISB17Y Germany in the Nineteenth and Twentieth Centuries**

A thematic treatment of German history from the end of the Holy Roman Empire to the present.

The course will concentrate on social, economic, and cultural interpretations of Germany's political experience.

Two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential.  
Prerequisite: HISA01  
Session: Winter Day  
M. Eksteins

### **HISB24Y 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.  
Exclusion: HISB21  
Prerequisite: HISB02 or permission of instructor  
Session: Winter Day  
J.P.B. Kenyon

**HISB31S Slavery in the American South**

An examination of Southern society and slavery from the colonial period to the Civil War.

Topics will include the origins and growth of slavery and the plantation, the economics of slavery, race relations, daily life under slavery and Southern political and social structure and ideas.

Prerequisite: HISB03

Session: Winter Evening  
A. Sheps

**HISB35Y Twentieth Century America**

A topical study of the United States since the turn of the century.

A traditionally rural culture of individual opportunity and national isolationism faces the problems created by urbanization, industrialization and world power. The tensions created by the appearance of large scale organization, by the expansion of governmental power, and by the changing role of the U.S. in world affairs, are the themes of this course. One two-hour session and one tutorial per week. A second tutorial will be opened if necessary.

Prerequisite: HISB03

Session: Winter Day, Summer Evening  
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.

Prerequisite: HISB04

Session: Summer Evening

**HISB44F Canadian Religious Traditions**

A course investigating aspects of the role of religion in the development of Canadian society.

Such themes as religious establishment, denominational education, church-state relations, theological trends, revivalism, religious ethnicism, mission action, nationalism and social groupings in relation to religion, the modernist-fundamentalist controversy, premillennialism, the Social Gospel, and religio-political movements will be examined.

Prerequisite: HISB04

Session: Winter Day  
J.S. Moir

**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

**HISC15Y Social History**

A seminar in international social history tracing different patterns in the growth of mass societies in Europe and North America from the late 18th century to the present.

The course examines how political ideas, population pressures and industrialization altered the structure of society; studies how early forms of social protest changed into mass organization; discusses how governments responded to changing pressure from below. In the first term the course will examine the subject theoretically and establish a broad historical outline. During the second term each student will pursue a particular topic and present a paper on it. Two hour seminars; tutorial to be arranged. Limited enrolment: 15.

Exclusion: HISB15Y

Prerequisites: HISA01Y and two full course equivalents in post-1815 history, either European or North American.

Session: Winter Evening

W. Dick

**HISC17Y European Society and Culture in the Twentieth Century**

An investigation of the impact of war, technology, economic crisis, and totalitarianism on the social condition and mind of European man.

Two-hour seminar. Limited enrolment: 15.

Prerequisite: HISA01 and one B-level course in History

Session: Winter Day

M. Eksteins

**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.

A two-hour weekly seminar, based on suggested readings and class discussion.

Prerequisite: Any one of HISB02, HISB03, HISB04 or HISB18

Session: Winter Day

A.N. Sheps W. Dick

**HISC43S Selected Topics in Canadian Religious History**

A research seminar examining various themes outlined in HISB44F.

Weekly seminar. Limited enrolment: 15.

Prerequisite: HISB44

Session: Winter Day

J.S. Moir

**HISC62Y The Crusades**

An examination of the Crusades of the eleventh through fourteenth centuries.

This seminar will consider the Crusades as a continuation of Christianity's centuries-old struggle with paganism, as a form of colonial expansion, and as a papal weapon against heresy and political dissension within Christendom. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitallers, Templars, Teutonic Knights, and associated orders in Spain and northeastern Europe. During the first semester students will read severally from the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have arisen since the completion of Gibbon's *Decline and Fall of the Roman Empire* in 1781. The second semester will be devoted to a similar reading (in translation) and critical analysis of original Western European, Byzantine, Arabic, and Jewish chronicles of the crusading movement. Term papers will concentrate on the careful study of a secondary work and a source not covered in class. Bibliography available from Prof. Michael Gervers.

Prerequisite: HISB06

Session: Winter Day

M. Gervers

**HISC78Y The Russian Intelligentsia**

A study of the origins, beliefs, role and personalities, of the intelligentsia in Russia during the nineteenth and early twentieth centuries.

The historical importance of the Russian intelligentsia is unparalleled in the history of any other country. Not a class, but yet a major intellectual, social and political force, the intelligentsia embraced the great thinkers of the Russian right and left from Dostoevsky to Lenin. The bulk of the course will consist of a detailed examination, through the writings of some of the leading intelligentsia, of intelligentsia ideas and personalities. The fate of the intelligentsia in the Soviet Union and the 20th-century connotations of the word will also be explored. The course will be taught by seminars. Limited enrolment: 20.

Prerequisite: HISB07 or RUSA01

Session: Winter Day

W. Dowler

**Courses Not Offered in 1984-85**

**HISB07Y** Russia from the Thirteenth Century to the present

**HISB18Y** Europe Under the Enlightened Despots, 1700-1789

Prerequisite: HISA01

**HISB22S** British Imperialism in India  
Prerequisite: HISB02 or Permission of instructor

**HISB23Y** Tudor and Stuart England

Prerequisite: Any B-level course  
**HISB33S** Society and Politics in the United States 1790-1850

Prerequisite: HISB03

**HISB43Y** The Evolution of Ontario, 1850-1950

Prerequisite: HISB04 (HISB09)

**HISB46Y** Atlantic Canada

Prerequisite: HISB04

**HISB47Y** The Canadian Left, 1867 to the Present

Prerequisite: HISB04

**HISB61Y** The Beginnings of France: Constantine to Charlemagne

Prerequisite: Any B-level course in History or Greek and Roman History

**HISC12Y** The Renaissance in Europe

Prerequisite: HISA01 or permission of the instructor.

**HISC14Y** The European Mentality in Early Modern Period (1500-1700)

Exclusion: (HISC12)

Prerequisite: One B-level History course.

**HISB04 The Canadian Left, 1917 to the Present**  
An investigation of farmer, labour, and socialist movements since Confederation. Their roles in the changing social structure, and their political manifestations.

The emphasis will be on the twentieth century, and attempts will be made to assess the significance of the international affiliations and/or origins of the various movements, and to account for the unique character of the Canadian Left. In broad terms, the course objectives are (i) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have organized to protect their interests; and (ii) to explore the relationship between social change and popular, reform, radical, and socialist movements.

One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks throughout the year. Written work will include two research papers.

Prerequisite: HISB04 (HISB09)

Time: MW11 T0001 M2  
T0002 W10

## Humanities

<b>HISC19S</b>	<b>Weimar Culture</b> <i>Prerequisite:</i> HISA01 and one B-level course in History
<b>HISC20H</b>	<b>Anglo-Saxon England</b> <i>Prerequisite:</i> One B-level course in History of English
<b>HISC21Y</b>	<b>Urbanization and Social Change in Nineteenth Century England</b> <i>Prerequisite:</i> HISC02
<b>HISC34F/S</b>	<b>Revolutionary America, 1760-1790</b> <i>Prerequisite:</i> HISC02 or HISC03 or HISC04
<b>HISC41F</b>	<b>Old Huronia</b> <i>Prerequisite:</i> HISC04 <i>Corequisite:</i> Field trip to be arranged
<b>JPHC44Y</b>	<b>Canadian Social Issues: Historical and Philosophical Perspectives</b> <i>Prerequisites:</i> HISC04 or PHLB01F/S or PHLB05F/S
<b>HISC45Y</b>	<b>History of Canadian Social, Political and Historical Thought</b> <i>Prerequisite:</i> HISC04

*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.

Students taking Humanities courses may wish to consider the *Literature Programme*: see corrigenda.

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
HUMB11Y	Studies in Greek Mythology and its Influence
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
HUMB16F/S	The Image of the Self in Liberal Society
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
<i>see also:</i>	
CLAA01Y	Classical Civilization
RUSA01F	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
HUMB37F/S	Atlantis
HUMB38F/S	Utopia: From More to Huxley
HUMB39F/S	Fantasy in Narnia and Middle Earth

### *See also:*

ANTB23Y	Comparative Mythology
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### *Interliterary Studies*

HUMB40Y	Russian and English Nineteenth-Century Fiction
HUMB42Y	The Modernist Adventure
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
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
HUMB51F	Nineteenth Century German Prose
HUMB54F	The Crisis of Contemporary Society in Modern Italian Drama

HUMB55Y	The Twentieth Century Latin American Novel and The European Tradition
HUMB56S	Twentieth Century German Prose
HUMB57F	Features of Post-War German Literature
HUMB58Y	The Nineteenth Century Russian Novel, 1830-1880
HUMB59Y	Soviet Russian Literature, 1917-1980
JHGB50Y	The Development of German Drama
JHGB51Y	Masterpieces of the German Novel from the Eighteenth Century to the Present
JHGB52F/S	The Holocaust in Modern Literature
JSDB24F	Golden Age Drama

### *Women's Studies*

JHSA01Y	Introduction to Women's Studies
HUMB61S	Women in Ancient Greece
HUMB64Y	Literary Considerations and Feminism

### *Science and Humanities*

JBHB01Y	Introduction to Biological Sciences
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### *Film Studies*

HUMB70Y	Introduction to Cinema
JHIB71F	Italian Cinema
HUMB73S	Religious Themes in the Films of Werner Herzog

### *Arts Studies*

HUMB90Y	Introduction to Arts Administration
HUMC30F/S	Senior Seminar on Arts Administration

### Specialist Programme in the Humanities

Supervisor: W.C. Graham (284-3279)

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 (12) 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 Four and one-half further full-course equivalents in Humanities subjects, at least two 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

### JBHB09S History of Biology

An examination of selected episodes in the development of biological science with emphasis on such issues as scientific method, social context and the impact on religion.

Session: Winter Day

Time: T11-1 Instructor: P. Winsor

### College Programme in the Humanities

Supervisor: W.C. Graham (284-3279)

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, JBHB01Y, 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, at least one of which must be at the C-level 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, *The Last Days of Socrates*; Herodotus, *Histories*; Virgil, *Aeneid*; Augustine, *Confessions*; Dante, *Inferno*; Beowulf; Boccaccio, *Decameron*.

Spring Term: Machiavelli, *The Prince*; Montaigne, *Essays*; Voltaire, *Candide*; Vasari, *Lives of the Artists*; Galileo, *Discoveries and Opinions*; Goethe, *Faust*; Pushkin, *The Little Tragedies*;

Marx, *Communist Manifesto*; Wagner, *The Ring of the Niebelung*; Darwin, *Origin of Species*; Freud, *Interpretation of Dreams*. Note: For information on appropriate editions of these works, see the co-ordinators. Titles may change if editions become unavailable.

"What's past is prologue" - Shakespeare, *The Tempest*, 1, 1.

Session: Winter Day

Co-ordinators: W.C. Graham, P.W. Gooch

### JBHB01Y 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, Linguistics 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.

Session: Winter Day

Co-ordinator: D. James

### HUMA10Y Introduction to the Study of Religion

An introduction to the academic study of religion through an examination of religious expression in its conceptual, ritualistic social and personal dimensions.

The various approaches used in the study of religion will be investigated by surveying the important contributions and basic insights of anthropologists, phenomenologists, historians, psychologists, sociologists and philosophers. Examples of religious phenomena will be drawn from many traditions, both Eastern and Western, ancient and new.

Session: Winter Day

J. Dammen-MoAuliffe S. Nigrosian

### 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 Evening

J. Warden

### JBHB01Y Introduction to Biological Sciences

An introduction to the central concepts of Biology and their interrelationship.

The course is designed for students with no formal background in Biology but who have acquired some skill in reflection and in writing. Topics will include the functioning of cells and organisms and the relationships of organisms in space and time. The contemporary understanding of biological structures and functions will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies which require biological input for their solution.

Prerequisite: Two full course equivalents in the Division of Humanities or two full course equivalents in the Division of Social Sciences and permission of instructor

Exclusion: (NSCA02Y)

Session: Winter Day

G.R. Williams



**HUMB09F The Civilization of Spain I**

Examination through readings and discussion of main aspects of civilization of Spain.  
Social, intellectual and artistic components of the civilization of Spain from pre-Roman times to the end of the seventeenth century will be studied, and illustrated by slides and other reference materials. Two hours per week in a lecture/tutorial format.

**Excursions:** HUMB15Y Session: Winter Day

**Time:** WZ-4 Instructor: P. León

**HUMB10S The Civilization of Spain II**

**A continuation of HUMB09F.**

Social, intellectual and artistic components of the civilization of Spain from the end of the seventeenth century to the present will be studied, and illustrated by slides and other reference materials. Two hours per week in a lecture/tutorial format.

**Excursions:** HUMB15Y Session: Winter Day

**Time:** WZ-4 Instructor: K. Godde

**HUMB15Y The Civilization of Spain**

Examination through readings and discussion of main aspects of the civilization of Spain.

Social, intellectual and artistic components of the civilization of Spain from pre-Roman times to the present will be studied with illustration by slides and other reference materials.

Two hours per week in a lecture/tutorial format.

Session: Winter Day  
P. León, K. Gödde

*Deleted from curriculum*

**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* Eliade, *Yoga: Immortality and Freedom* Ostrander and Schroeder, *Psychic Discoveries Behind the Iron Curtain* and *Superlearning*, *Problems of Suggestology*.

Prerequisite: At least one full-course equivalent in either Psychology or Philosophy or English or another literature.

Session: Winter Day  
W.J. Bancroft

**HUMB22F The Age of Pericles**

A study of the history, literature and art of Athens in the fifth century B.C.

The course will concentrate on the second half of the fifth century. The topics studied will include the leadership of Pericles; the development of democracy; Athens as an imperial power; the confrontation with Sparta; the rise of the sophists; the architecture, sculpture and vase painting of the period. A selection of the literary and dramatic works will also be studied in translation. Most of the classes will consist of lectures, some of which will be given by guest speakers.

Session: Winter Day  
A. Boddington

**HUMB42Y The Modernist Adventure,**  
add the following supplementary paragraph:

The course will examine, in terms of their historical context, literary evolution, and relevance to the twentieth century, themes and attitudes associated with such topics as the following: pessimism, escape, and spiritual quest; revolution and the creative will; hypersensitivity and introversion; sex, magic, and the occult; drugs

**HUMB24S The Age of Nero**

Nero's Rome, as it is reflected in the art, architecture, and literature of the day, and in the accounts of later Roman authors.

The course provides an introduction to Imperial Rome, a controversial Emperor, and the striking cultural milieu over which he claimed to preside. It asks what ideas are expressed in Neronian arts; how far the Emperor controlled their expression; and how far the culture (or counterculture) of the court shaped, or was shaped by, the forces of a largely bicultural Empire. A lecture format will be adopted, with frequent use of slides and some opportunity for discussion.

Session: Winter Day  
J. Corbett

**HUMB26Y Women in the Major Western Religions**

A comparative study of the social and legal status of women in Christianity, Judaism and Islam.

The exegetical tradition of certain passages in the Hebrew Bible, New Testament and Qur'an has decisively affected the position of women in these three traditions. A solid understanding of this scriptural and historical background contributes to the discussion of contemporary problems. In the first term students will trace women's Western religious history from the ancient Near East to the present day. The second term will be devoted to particular topics of cross-traditional concern. Subjects such as access to liturgy and ritual, notions of pollution and purification, sexism in religious language, opportunities for leadership and ministry, the concepts of honour and shame, will be studied and discussed from the perspective of all three traditions.

Session: Winter Day  
J. Dammen McAuliffe

**HUMB42Y The Modernist Adventure**

A comparative exploration of the crisis of modern artistic consciousness in selected works of French, German, Hispanic, and Russian literature, 1870-1914.

Representative (mainly prose) texts will be read and discussed in English. Guest lectures on selected subjects.

Prerequisite: One B-level course in literature  
Exclusion: RUSB24, SPAB33  
Session: Winter Day  
C.V. Ponomareff, R. Skyrme

**HUMB44F Disaster and the Literary Imagination**

An exploration of the historical impact of Nazism and Stalinism, totalitarianism and war on the post-war literary imagination of Soviet Russian and West German writers at the metaphorical level of artistic perception.

The course will also examine the social and cultural relevance of creative writing in response to periods of social crisis. Five authors will be studied: W. Borchert, Ch. Aitmatov, G. Grass, B. Pasternak, H.E. Nossack.

Session: Winter Day

C.V. Ponomareff

**HUMB51F Nineteenth Century Prose**

A study of the novella form centering on representative works of major writers in the nineteenth century.

The method of the course is both historical and systematic. Works from three major periods of the nineteenth century will be discussed: (Kleist, Brentano, Eichendorff) and Poetic Realism (Droste-Hülshoff, Meyer, Storm). Georg Buchner's role as the most innovative writer of his time and as the precursor of twentieth century man will be assessed. The focal points are the clash between ideal and reality, narrative technique, the history and the theory of the novella, the relationship between the evolution of ideas and the character of a literary work of art, the development of the short prose form in the nineteenth century.

Prerequisite: (GERB19 and 20 for students studying in the original)

Exclusion: GERB60

Session: Winter Day  
H. Wittmann

**HUMB56S Twentieth Century Prose**

Main literary trends in Germany from the turn of the century to the present.

The course is divided into three parts with the following themes: i) Crisis of consciousness and language (Hofmannsthal, Rilke, Musil, Kafka); ii) The conflict of art and life (Mann, Hesse); iii) Art and morality (Grass, Böll). It intends to show the genesis of modern prose as it emerges from the conflict between the consciousness of the writer and an increasingly complex reality shaped by the revolution of science and technology. Its main goals are to explore the resulting attitude of the writers toward language, the structure of society and the concept of individuality.

Prerequisite: (GERB19 and 20 for students studying in the original)

Exclusion: GERB66

Session: Winter Day

H. Ohlendorf

**HUMB57F Features of Post-war German Literature**

The resurrection of German literature after the disaster of National Socialism.

Analysis and discussion of literary texts will focus on four major themes: i) The relationship of collective guilt and individual responsibility; ii) language and totalitarianism; iii) the role of modern man in a mechanized, affluent society; iv) the didactic uses of history in modern theatre. The course is intended to enable the student to relate structure, language and content of major examples of post-war literature to the peculiar sociopolitical situation of Germany after Auschwitz, and to show the emergence of the writer as the conscience of a new Germany.

Prerequisite: (GERB19 and 20 for students studying in the original)  
Exclusion: GERB76  
Session: Winter Day  
H. Ohlendorf

**HUMB59Y Soviet Russian Literature, 1917-1980**

The two realities of Soviet Russian literature: official and underground writing.

The course will focus on the rich variety of fictional writing to come out of Soviet Russia: the Proletarian writers and the Fellow Travellers of the 1920s, the Socialist Realists of the Stalinist Terror and the literature of the post-Stalin period. This study will be combined and contrasted with the stream of underground Russian writing which began in the 1920s and grew into the dissident movement of the 1960s and after.

A number of problem areas will be discussed: the difference between official and underground writing and why the latter is unacceptable to the Communist state. Ten representative authors will be examined.

Prerequisite: One B-level course in literature  
Exclusion: RUSB21, RUSB23  
Session: Winter Day  
C.V. Ponomareff

### **HUMB60F Women Artists in Society**

An examination of the work of women artists in Visual Arts, Literature, and Performing Arts.

The course will focus on the particular problems facing creative women in contemporary society, and their contributions to their fields. Topics for discussion include: Can specific elements in work by women be said to come directly from their experience as women? How does a woman's role in society affect her creativity? Who comprises the 'Art Audience' and how receptive is that audience to work by women artists? What alternatives to the cultural establishment have been initiated by Women?

The class will meet in one two-hour session per week. The teaching method will involve lectures with class participation encouraged, films, slides, and occasional guest speakers.

Session: Winter Evening

A. Hall

### **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*.

Prerequisite: Either one course in English or one in Women's Studies

Session: Winter Evening

S. Namjoshi

### **HUMB70Y Introduction to Cinema**

An introduction to the vocabulary of film criticism, major aesthetic approaches and general history (silent and sound). Tutorials start the first week of classes.

NOTE: There is a screening fee of \$20.00 for this course.

Session: Winter Day

M.Q. Schanberg

### **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 own work in a group workshop. Exercises to be assigned will bear on special questions of technique and form and there will also be discussion of the work of some contemporary writers.

Limited enrolment: 16

Prerequisite: Admission by portfolio and interview.

Session: Winter Evening

A.C. Thomas

### **HUMB90Y Introduction to Arts Administration**

The theory and practice of arts administration in Canada and abroad.

The course will examine all aspects of arts administration, from the economic and financial problems of artists and arts organization to the formulation and implementation of arts policy, including such topics as *the marketing of artistic products; publicity, promotion and fund-raising; audience development; management of facilities; corporate support; the granting system; and municipal, provincial and federal responsibility for arts policy*. The teaching method will include lectures, course papers and occasional guest speakers.

Session: Winter Day

### **JHSC01H Senior Project in Women's Studies**

A research project chosen by the student, approved by the Supervisor in Women's Studies, and supervised by one faculty member. After the topic has been approved, a second reader will be appointed.

The student will write a substantial essay or give a major presentation on an approved topic in Women's Studies.

The course is designed for students completing the Major Programme in Women's Studies and is normally taken after completion of ten full-course equivalents.

Students are advised to design a project in an area in which they have already done some concentrated study and, where possible, to build upon work taken in previous courses.

Arrangements with the faculty in Women's Studies and the supervisor must be made by the student before the end of the pre-registration period in the spring.

Prerequisite: Open to students majoring in Women's Studies who have already completed 10 FCEs

Session: Winter Day

Co-ordinator: D. James

### **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 Arts, 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: W.C. Graham

### **HUMC91F, C92S, C93Y Supervised Readings**

Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses.

The student should submit to the Supervisor of the Humanities Programme a statement of objectives and proposed content for the course; this should be done by 15 April for F and Y courses and by 1 December for S courses. If the proposal is approved, the Board of Studies will ensure that two faculty members from relevant disciplines will supervise and evaluate the work.

Prerequisite: Three B-level full course equivalents in the Division of Humanities.

Session: Winter Day

Supervisor: W.C. Graham

### **HUMC95-C99Y 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 1984. (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 1984-85**

**HUMB11Y** Studies in Greek Mythology and its Influence

*Recommended Preparation:*

HUMA11

*Exclusions:* HUMB34, HUMB35, HUMB36

**HUMB12F/S** The Paris Commune, 1871 to the Present

**HUMB13Y** The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities

*Exclusion:* (HUMB30)

**HUMB14Y** Topics in Latin American Culture and Literature

*Exclusions:* (SPAB38)

**HUMB16F** The Image of the Self in Liberal Society

**HUMB17Y** The European Experience: Man and Society

*Exclusion:* (HUMB03)

**HUMB18S** Modern Italy

*Exclusion:* ITAB20

**HUMB20Y** Primitive Christian Literature and Myth

*Prerequisite:* No formal pre-requisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.

**HUMB21S** The Literature of the Spanish Mystics

*Exclusion:* (SPAB37)

**HUMB23S** The Age of Augustus

**HUMB25F** The Age of Homer

**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

**HUMB37F/S** Atlantis

*Exclusion:* (HUMB09)

**HUMB38F** Utopia: From More to Huxley

**HUMB39F** Fantasy in Narnia and Middle Earth

*Exclusion:* (HUMB05)

**HUMB45S** The Spanish Civil War: Fact to Fiction

**HUMB50S** Machiavelli and Aspects of the Italian Renaissance

*Exclusion:* ITAB33

**JHGB50Y** The Development of German Drama

*Exclusion:* (GERB40)

## Italian

- JHGB51Y** Masterpieces of the German Novel from the Eighteenth Century to the Present  
*Exclusion:* (GERB43)
- JHGB52F** The Holocaust in Modern Literature
- 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
- HUMB58Y** The Nineteenth Century Russian Novel, 1830-1880  
*Prerequisite:* One B-level course in literature  
*Exclusion:* RUSB11
- HUMB61S** Women in Ancient Greece  
*Exclusion:* (HUMB41)
- JHIB71F** Italian Cinema  
*Exclusion:* (HUMB71), (JHIB90)
- HUMB73S** Religious Themes in the Films of Werner Herzog
- HUMC01F** 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.
- HUMC19F** Comparative Study of Contemporary Fiction  
*Prerequisite:* One B-level course in literature or permission of instructor
- HUMC30F/S** Senior Seminar on Arts Administration

*Discipline Representative:* D. McAuliffe (284-3346)  
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 from ITAA11 may take ITAB11 as a prerequisite for literature and more advanced language courses. Students with Grade 13 Italian may begin by taking ITAB10. Students with other types of language preparation should consult the discipline representative before choosing their course of study. 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:* A. Franceschetti (284-3307)

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 ITAB04F/S
- 2 ITAA01Y Introductory Italian
- 3 ITAA02H Introductory Italian Language Practice
- 4 ITAA03S Conversation II
- 5 ITAB01Y Intermediate Italian I
- 6 ITAB03F Intermediate Conversation I

~~ITAB04F/S~~ Advanced Composition

- 8 ITAB06S Intermediate Conversation II
- or
- 9 ITAB05F/S Practical Translation
- 7 ITAC01Y Language Practice
- 8 ITAB20F/S Modern Italy
- 9 ITAB22F Introduction to Modern and Contemporary Italian Literature
- 10 LINA05Y Practical Language Study

Option B (for students with some prior knowledge of Italian or one of its dialects but without Grade 13 Italian):

- 1 ITAA11Y Elementary Italian
- 2 ITAA03S Conversation II
- 3 ITAB11Y Intermediate Italian II
- 4 ITAB03F Intermediate Conversation I
- or
- 5 ITAB04F/S Advanced Composition
- 6 ITAB06S Intermediate Conversation II
- or
- 7 ITAB05F/S Practical Translation
- 8 ITAC01Y Language Practice
- 9 ITAB20F/S Modern Italy
- 10 ITAB22F Introduction to Modern and Contemporary Italian Literature
- 11 ITAB23F/S Survey of Italian Literature from the Middle Ages to the Renaissance
- 12 LINA05Y Practical Language Study

Option C (for students with Grade 13 Italian):

- 1 ITAB10Y Italian Language Review
- 2 ITAB03F Intermediate Conversation I
- 3 ITAB06S Intermediate Conversation II
- 4 ITAB04H Advanced Composition
- 5 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 An additional half course selected from the offerings in Italian or from the Humanities Discipline's offerings (HUM) which concentrate on Italian culture, civilization and literature.
- 11 LINA05Y Practical Language Study

Language requirements will be waived by the Supervisor in the case of students judged to have highly advanced knowledge of Italian. Appropriate 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 (284-3346)

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 and ITAB31Y, in Italian Literature.
- 3 One full-course equivalent selected in consultation with the Programme Supervisor from among the offerings in Italian or from the Humanities Discipline's offerings (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.

*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. Class time is devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practise with one another. 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.

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. 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 phonological, lexical, and grammatical interference arising from the use of dialects and English 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. Use of the language laboratory is highly recommended.

Exclusion: ITAA01  
Corequisite: It is strongly recommended that students enrolled in this course take ITAA03 concurrently with it.  
Session: Winter Day  
J. Campana

**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.

Exclusion: ITAB10, ITAB11  
Prerequisite: ITAA01  
Corequisite: It is strongly recommended that students enrolled in this course take ITAB03 and B06 concurrently with it.  
Session: Winter Day  
D. McAuliffe

**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 in readings (or) in discussions 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 one oral report and two skits (one prepared and one improvised) will be required of each student.  
Corequisite: ITAB01 or ITAB10 or ITAB11  
Session: Winter Day  
J. Campana

**ITAB05S Practical Translation**

Practice in translating from English to Italian and from Italian to English, combined with analysis and discussion of a wide variety of texts in terms of type of language and style of expression. Examples of colloquial, journalistic, literary, technical and business expression will be translated and analysed.

Class time is devoted to increasing the student's proficiency. Evaluation will be based on written and oral assignments, class participation and an examination.  
Corequisite: ITAB01 or ITAB10 or ITAB11  
Session: Winter Day  
S. Mittler

**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 ITAB10 or ITAB11  
Session: Winter Day

**ITAB10Y Italian Language Review**

A review of grammatical structures stressing syntax and vocabulary building.

This course is intended to help students who have studied Italian in Grade 13 to increase their ability to speak and write according to standard usage. Class time will be devoted to oral practice as well as to discussion of grammatical difficulties found in a variety of Italian texts and in the students' own compositions.

Exclusions: ITAB01 and ITAB11  
Prerequisite: Grade 13 Italian or permission of Instructor.  
Session: Winter Day

**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.

Exclusion: ITAB01 and ITAB10  
Prerequisite: ITAA11  
Corequisite: It is strongly recommended that students enrolled in this course take ITAB03 and ITAB06 concurrently with it.  
Session: Winter Day  
J. Campana

**ITAB13F Modern Italian Poetry**

An examination of the major Italian poets from Pascoli to the present.

This course is designed to provide insight into the works of the major poets of our century. Students will read and discuss selected poems from Pascoli, the Crepuscolari and Futurist poets, Ungaretti, Quasimodo, Montale and other modern poets.

The teaching method will involve lectures and discussion in Italian.  
Prerequisite: ITAB01 or ITAB10 or ITAB11; a course in Italian literature such as B22F and B23S is recommended but not required.  
Session: Winter Day  
J. Campana

**ITAB20S Modern Italy**

An introduction to the events and ideas which have contributed to the making of modern Italy.

This course is conducted in Italian. It aims to help the student understand the complex social and cultural milieu in which life is conducted in present-day Italy. Readings from a variety of literary and historical texts form the basis for the three weekly hours of discussion of topics outlined by the instructor. These will be complemented by audio-visual material such as slides, tapes and films. The student is expected to contribute to the classroom discussion and make at least one oral presentation and write at least one essay on a topic agreed upon with the instructor.

Exclusion: HUMB18  
Prerequisite: ITAB01 or ITAB10 or ITAB11  
Session: Winter Day  
J. Campana

**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.

Selections from the works of influential novelists, poets and dramatists of the nineteenth and twentieth centuries will be examined in relation to the different linguistic and cultural backgrounds from which they sprang, and to the major modern theme of the individual in society. 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.  
Prerequisite: ITAB01 or ITAB10 or ITAB11  
Session: Winter Day  
S. Mittler

**ITAB23S Survey of Italian Literature from the Middle Ages to the Renaissance**

An introduction to the main literary movements, masterpieces and authors from the beginning of Italian literature to the end of the seventeenth century.

This course is intended to give the students a knowledge of the early development of Italian literature in its historical context as well as to develop the student's ability to read the early literary language of Italy. The passages to be read and discussed will include selections from "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*, Goldoni's *Commedie*. Lectures and discussion in Italian.

*Prerequisite:* ITAB01 or ITAB10 or ITAB11

*Session:* Winter Day

A. Franceschetti

**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 the 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, in particular Betti, Fabbri and De Filippo.

*Exclusion:* HUM854

*Prerequisite:* ITAB01 or ITAB10 or ITAB11

*Session:* Winter Day

J. Campana

**ITAB32F 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.

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian literature, such as ITAB22 and ITAB23, is recommended but not required.

*Session:* Winter Day

A. Franceschetti

**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.

*Prerequisite:* ITAB01 or ITAB10 or ITAB11

*Session:* Winter Day

A. Franceschetti

**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

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**Courses Not Offered in 1984-85**

**ITAB10Y**

**ITAB04H Advanced Composition**

*Corequisite:* ITAB01 or ITAB10 or ITAB11

**ITAB12F/S The Twentieth Century Novel**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23 is recommended but not required.

**ITAB31Y Dante & Medieval Culture**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23 is recommended but not required.

**ITAB33F/S Machiavelli and Renaissance Thought**

*Exclusion:* HUM850

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23 is recommended but not required.

**ITAB34F/S Chivalric Poetry of the Renaissance**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23 is recommended but not required.

**ITAB35F/S Italian Sixteenth Century Theatre**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23, is recommended but not required.

**ITAB36F/S Lyric Poetry of the Renaissance (from Poliziano to Michelangelo)**

*Prerequisite:* ITAB02 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23, is recommended but not required.

**ITAB40F/S Reformation and Baroque Literature**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature, such as ITAB22 and ITAB23, is recommended but not required.

**ITAB41F/S Italian Eighteenth Century Theatre**

*Prerequisite:* ITAB02 or ITAB10 or ITAB11; a course in Italian Literature such as ITAB22 and ITAB23 is recommended but not required.

**ITAB43F/S Foscolo and Leopardi**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature such as ITAB22 and ITAB23 is recommended but not required.

**ITAB44F/S Manzoni**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature such as ITAB22 and ITAB23 is recommended but not required.

**ITAB45F/S The Nineteenth Century Italian Novel in Transition**

*Prerequisite:* ITAB01 or ITAB10 or ITAB11; a course in Italian Literature such as ITAB22 and ITAB23 is recommended but not required.

**JHIB71F/S Italian Cinema**

*Exclusion:* (HUMB72), (JHIB90)

## Joint Courses

For a description of these courses please refer to the disciplines concerned:

### *Biology and Chemistry*

JBCB35Y Introductory Biochemistry  
JBCB36H Laboratory in Chemistry

### *Biology and Humanities*

JHB01Y Introduction to Biological Sciences

*JHB01S History of Biology*

### *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  
JCEC70F Advanced Corporate Finance  
JCEC75S Investments

### *Commerce and Sociology*

JCSB27Y Organizational Behaviour

### *Geography and Economics*

JEB27F Location and Spatial Development

### *History and Philosophy*

JHPC44Y Canadian Social Issues

### *Humanities and German*

JHGB50Y The Development of German Drama  
JHGB51Y Masterpieces of the German Novel from the  
Eighteenth Century to the Present  
JHGB52F The Holocaust in German Literature

### *Humanities and Italian*

JHIB71F Italian Cinema

### *Humanities and Social Science*

JHSA01Y Introduction to Women's Studies  
JHSC01H Senior Project in Women's Studies

### *Linguistics and Psychology*

JLPB24S Developmental Psycholinguistics  
JLPB55F Psycholinguistics  
JLPC55F Disorders of Speech and Language

### *Mathematics and Computer Science*

JMCC31F Combinatorics  
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

### *Physics and Mathematics*

JPMC42S Advanced Classical Mechanics

### *Spanish and Drama*

JSD24F Golden Age Drama

## Latin

Courses are offered in introductory Latin (LATA01, LATA10) and Latin literature (LATB01, LATB30, etc.).

LATC01F-02S

LATA01Y Introductory Latin

LATA10F Introduction to Latin Authors

LATB01S Catullus

LATB20F Latin Authors II

LATB30F-34F

LATB35S-39S

LATB40Y Supervised Reading

LATC01F-C02S Independent Studies

For further information see under *Classical Studies*.

## Linguistics

*Discipline Representative:* D. James (284-3146)  
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 LINB14, LINB15, JLPB55, JLPB24 and other courses. (See too the programme in *Cognitive Science*.)

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.

Students of foreign languages may find LINA01 and LINB05 of use.

### **Specialist Programme in Linguistics**

*Supervisor:* D. James (284-3146)

The Specialist Programme in Linguistics involves a core of four basic full-course equivalents, as follows:

~~1 LINB00F/S~~

1 LINA01Y General Linguistics

2 LINB11Y Syntax

3 Two of:

LINB09F Phonetics

LINB02S Phonology

LINB04S Historical and Comparative Linguistics

4 One full-course equivalent on the C-level in LIN or related discipline, as approved by the Supervisor of Studies.

In addition, students must complete nine additional full-course equivalents, to be selected in consultation with the Supervisor of Studies.

5 One full-course equivalent from:

LINB14F Interpersonal Communication

LINB15S Varieties of Language

or two of:

JLPB24S Developmental Psycholinguistics

JLPB55F Psycholinguistics

LINB25F Second Language Learning

LINB27F Animal Communication and the Nature of Language  
JLPC55F/S Disorders of Speech and Language

6 Four further full-course equivalents in Linguistics (LIN or JLP), not to include LINA04F/S or LINA05Y or LINB05Y



- 7 One full-course equivalent from among the following courses:

ANTB30Y	Language and Culture
ENGB01Y	Old English Language and Literature
FREB24Y*	General History of the French Language
FREB25Y*	Introduction to French Linguistics
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.

- 8 Two full-course equivalents in a language which is not the student's native language.
- 9 In addition to his native language and the language taken under (8), the student must have some knowledge of a third language; this requirement can be satisfied by either:
- 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
  - the student's taking one further course in such a language at the university level.

### Major Programme in Linguistics

Supervisor: D. James (284-3146)  
Students must complete seven full-course equivalents, as follows:

- LINA01Y General Linguistics
- LINB11Y Syntax
- 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.) JLP courses can be included as LIN courses. LINA04F/S, LINA05Y and LINB05Y 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.

Topics such as the following will be included: the sound systems of languages, language universals, how languages change, how children acquire language.

This is a lecture course with discussion. The textbook is normally an introductory Linguistics book, such as Fromkin and Rodman, *Introduction to Language*.

Session: Winter Day

D. Woods/R. Binnick, D. James

### LINA04S 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 is in turn modified and affected by it. Topics such as the following will be covered: the relationship between human and animal systems of communication, and between language and culture; language change; how children learn language; bilingualism in Canada. There will be lectures, discussions, films.

Exclusion: LINA04 may not be taken by students who have credit for LINA01. LINA01 and LINA04 may not be taken in the same session.

Session: Winter Day

D. James

### LINA05Y Practical Language Study

Basic notions of grammar and language use essential for the study of languages, with emphasis on the languages taught at Scarborough.

Areas of study will include traditional grammar, word formation and sentence structure, phonetics and sound systems, meaning and language use.

Not for credit towards Linguistics programmes.

Session: Winter Day

D. Woods

### 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. We will discuss material from the text and problems which are to be solved.

Prerequisite: LINA01

Session: Winter Day

D. Woods

### LINB05Y Romance Languages

Background for students of the Romance languages, with emphasis on those taught at Scarborough Campus (French, Italian, and Spanish).

The origin of the Romance languages in Latin; the relationship to other Indo-European languages such as Greek, English, German and Russian; common features inherited from Latin; differences in grammar, vocabulary, and pronunciation; problems for the learning of the Romance languages and their treatment.

Not for credit towards Linguistics programmes.

Exclusion: HUMC14

Session: Winter Day

R. Binnick

### 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 prescribed text and problems which are to be solved.

Prerequisite: LINA01

Session: Winter Day

D. Woods

### LINB11Y Syntax

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.

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

D. James

### LINB14F Interpersonal Communication

Aspects of interpersonal communication, including face to face interaction. The focus will be on: strategies that govern a speaker's choice of linguistic forms appropriate to specific social situations; concepts imposed by linguistic rules and prevailing social norms on the acceptability of speech acts; the interrelation of all aspects of the participants' behaviour in communication, both verbal and non-verbal; the influence of the setting of the interaction.

Prerequisite: LINA01 or SOCA01 or LINA04 with permission of instructor.

Exclusion: LINB07

Session: Winter Day

S. Whalen

### LINB15S Varieties of Language

Speech varieties: national language, regional or social dialect, jargon, argot, register and style.

Speech varieties available to a member of a speech community in relation to the roles in that community. Speech varieties as indices of social identity and representative symbols of group affiliation. Monolingual and multilingual speech communities, the diverse linguistic, social and political factors resulting in language maintenance, language shift, and language spread, and the creation of new languages such as pidgins, creoles and lingua francas.

Prerequisite: LINA01 or SOCA01 or LINA04 by permission of instructor.

Exclusion: LINB07

Session: Winter Day

S. Whalen

### JLPB24S Developmental Psycho- linguistics

The development of language in children. How do children acquire phonological, syntactic, semantic and pragmatic rules? How is language development related to other kinds of cognitive developments.

There will be lectures, discussions and analyses of tapes of children's language.

Exclusion: LINB15

Prerequisite: One full-course equivalent in LIN or PSY.

Session: Winter Day, *Summer Evening*  
A. Gopnik

### 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. An overview of current work in the field is offered.

Lectures and discussion.

Prerequisite: One full-course equivalent in LIN or PSY.

Session: Winter Day, *Summer Evening*  
R. Binnick

### JLPC55F Disorders of Speech

The Study of abnormalities in the processes of language use and language development discussed in JLPB24S and JLPB55F/S.

In the course we will discuss various types of aphasia and their relationship to brain injury, developmental disorders such as stuttering, dysphasias, and dyslexia, and disorders of language that are related to general disorders such as deafness, blindness or schizophrenia. We will discuss these disorders in relationship to normal language processing and development. Lecture and discussion. Enrolment limited: Overall maximum 45, including no more than 25 Psychology majors or specialists.

Prerequisite: One full course equivalent at B-level in Linguistics or PSYB60 or PSYB65.

Exclusion: LINB29

Session: Winter Day

A. Gopnik

### LINC01F

### LINC02S

### LINC03F

### LINC04S

### LINC05Y Supervised Reading

Interested students should contact Professor D. James, Supervisor of Studies. 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

### Courses Not Offered in 1984-85

LINB04F Historical and Comparative  
Linguistics

Prerequisite: LINA01

LINB08F Scripts

Prerequisite: LINA01 or LINA04

LINB12S Semantics

Prerequisite or Corequisite:  
LINB11

LINB25F Second Language Learning

Prerequisite: One linguistics  
course or language course  
involving the study of grammar.  
One psychology course  
recommended.

LINB26S Languages of the World

Prerequisite: LINA01, LINA04 or  
one course in Psychology or  
Anthropology

LINB27S Animal Communication and the  
Nature of Language

Prerequisite: One course in LIN,  
or PSY, or SOC or ANT.

LINB28S Language and Sex

Prerequisite: One full course or  
equivalent in LIN, SOC, ANT,  
ENG, or PSY

LINC21Y Investigation of a Language  
Pre- or Corequisite: LINB02,  
LINB11

LINC22Y Comparative Study of Language  
Family or Area

Prerequisite: LINB11, or LINB02  
and LINB04

Corequisite: The other of  
LINB11, or LINB02 and LINB04

## Mathematics

Staff member responsible for curriculum: P. Leah  
(284-3192)

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.

### Comparison of A Level Calculus Courses

MATA55Y Calculus with Analysis

MATA26Y Calculus

MATA27Y Techniques of Calculus

MATA55 is a theory course. The emphasis is on why theorems are true, and students are expected to learn how to follow this logic and how to develop proofs themselves. 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. The emphasis is on applications rather than theorems. A student who completes MATA26 may take MATB41F, MATB42S, STAB52F, STAB57S in second year.

MATA27 is intended for those Commerce and Economics students who do not expect to take MATB41F, MATB42S in second year.

### Specialist Programme in Mathematics

Supervisor: P. Leah (284-3192)

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, MATC43F, MATC54F, JMCC31F,  
JMCC32F, JMCC51F, STAC42S, STAC52S,  
STAC67F, JPMC42S

\*Students will normally take MATA55Y followed by MATB50F and MATB55S but may substitute MATA26Y followed by MATB41F, MATB42S and MATB43S.

In any given year, some C-level courses may not be offered. Students should check on this with the divisional office.

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: P. Leah (284-3192)

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 STAC42S, STAC52S, STAC67F, CSCB68S,  
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.

**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  $\mathbb{R}^2$  and  $\mathbb{R}^3$ .

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.

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  $\mathbb{R}^n$  and  $\mathbb{C}^n$ . Change of basis and canonical forms for orthogonal and unitary transformations. Diagonalization of quadratic forms.

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.

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.

Prerequisite: MATA45

Session: Winter Day

**MATB41F Techniques of the Calculus of Several Variables I**

Vector algebra in  $\mathbb{R}^n$ , lines and planes in  $\mathbb{R}^3$ , 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  $\mathbb{R}^n$ . 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  $\mathbb{R}$ , limits in  $\mathbb{R}$  and  $\mathbb{R}^2$ , 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

Session: Winter Day

**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 and cyclic subspaces, Jordan and rational 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.

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 Evening

A. Gombay

**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.)

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. Three lectures per week.  
Prerequisite: MATA45  
Session: Winter Day

**MATC43F Linear Algebra III**

Inner product spaces, bilinear forms, Sylvester's Law, orthogonal and symplectic groups, tensor products, exterior algebra. Exclusion: (MATB45)  
Prerequisite: MATB49  
Session: Winter Day

**MATC49S Algebraic Structures II**

Isomorphism theorems, Sylow theorems. Finite fields, algebraic closure, the fundamental theorem of Galois theory. The problem of constructing a regular  $n$ -gon and trisecting an angle.  
Prerequisite: MATB49  
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

**JMCC51F 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

**MATC54F Differential Geometry I**

Parametric curves in space, Serret Frenet formulae, curves with specified curvature and torsion. Plane curves, isoperimetric inequality, four vertex theorem, curves of constant width. Parametric surfaces in space, Gauss Weingarten formulae, measures of curvature, Theorema Egregium, surfaces with specified first and second fundamental forms. Curves or surfaces, geodesics, parallel transport, Gauss Bonnet theorem. Geometry on surfaces of constant curvature.  
Prerequisite: MATA45, MATB42 or MATB55  
Corequisite: MATC51  
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.  
Prerequisite: MATC51 (or MATB51)  
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 Evening  
A. Gornbay

**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 modulus theorem and open mapping theorem. Laurent expansion and classification of isolated singularities. Residue calculus.  
Prerequisite: MATB55 or MATB42  
Session: Winter Day

**MATC65S Complex Analysis II**

Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.  
Prerequisite: MATC60  
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.  
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.  
Exclusion: PSYB07, ECOB11, (MATB57)  
Prerequisite: STAB52 (MATB52)  
Session: Winter Day

**STAC52S Experimental Design**

The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted schemes.  
Exclusion: PSYB08  
Prerequisite: STAB57

**STAC67F 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 1984-85****MATC32S Advanced Topics in Mathematics**

Prerequisite: MATA45, MATB42 or MATB55

**JMCC31F Combinatorics**

Prerequisite: MATB44 (MATC44) and at least one other B-level course in mathematics or computer science.

**JMCC32F Graph Theory and Algorithms for its Applications**

Prerequisite: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science.

**JPMC42S Advanced Classical Mechanics**

Prerequisite: PHYA03; MATC51

**MATC53Y Real Analysis**

Prerequisite: MATB49 (MATB40) and MATB55 (In place of MATB55 a student may substitute MATB42 and MATB43)

**STAC42S Multivariate Analysis**

Corequisite: MATB41  
Prerequisite: STAB57 (MATB57)

## 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 (284-3126)

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 Materials of Music I  
MUSB24S Materials of Music II
- 2 Three 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 information on limitation).
- 3 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 The History of Theatre I.

\* Music Students may be interested in taking the *Specialist Programme in the Arts* or the *Co-operative Programme in Arts Administration*.

### MUSA01Y Introduction to Music

A study of the basic materials, principles of design, and cultural significance of representative works of Western and non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and style characteristics, and in relation to trends in art and society. The evolutionary aspects of the various period styles are emphasized as well as the individual characteristics of selected works.  
Session: Winter Day  
J. Mayo

### MUSB04F Music of the Renaissance

A study of the music from the early fifteenth century until 1600.

This course concerns the variety of new forms, both sacred and secular, created during the Renaissance period, and the way in which the composers expressed the new spirit of humanism in their compositions.

Prerequisite: MUSA01

Session: Winter Day

T.J. McGee

### MUSB05S Music of the Baroque Era

A study of the music from the early seventeenth century until the death of Bach.

A brief survey of the various factors which led to the breakdown of the late renaissance style, followed by a study of the "two practices" of Monteverdi, Schütz and their contemporaries and the early development of opera and oratorio with examples taken from the works of Cavalli, Carissimi, Lully and Purcell. The formation of an idiomatic keyboard style by Frescobaldi, Sweelinck and Froberger and the development of the sonata, concerto and sinfonia in the hands of Corelli, Vivaldi and others. The late baroque is represented by the music of Couperin, Bach and Handel with selected works by these composers studied in detail.

Prerequisite: MUSA01

Session: Winter Day

J. Mayo

### MUSB07F The Symphony

A study of the music written in the symphonic form from the Classic period until the present day.

The changing concept of the symphony investigated through close study of representative examples of the genre.

Prerequisite: MUSA01Y or MUSB08Y

Session: Winter Day

J. Mayo

MUSB11F

### MUSB16S Canadian Music

A survey of Music in Canada from the early 17th century to the present day.

The course will follow the various kinds of music in Canada, including folk songs, Ballad operas, and the many varieties of music in the 20th century. Specific compositions will be selected for detailed study and comparison to music in Europe and the United States. Music of the Indians and Inuit will be heard and studied.

Prerequisite: MUSA01

Session: Winter Day

T.J. McGee

### Performance Courses

The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the Instructor during the first week of classes.

*Students may not take more than two half-course equivalents for credit in these courses.*

### MUSB20H Supervised Performance I — Chorus

The practical study of a wide range of music from the choral repertoire. Students work as members of Scarborough College Chorus a chamber choir which performs compositions drawn from the literature of the Renaissance to the present day. The choir gives public performances in each term.

In addition, credit students may be required to prepare works in conjunction with members of the instrumental performance programme. Previous choral experience desirable but not essential. The course meets 2 hours per week for rehearsal with MUSB21H.

Exclusion: MUSB09H and MUSB10H

Pre or Corequisite: MUSA01Y

Session: Winter Day

J. Mayo

### MUSB21H Supervised Performance II — Chorus

A continuation of MUSB20H.

Exclusion: MUSB10H

Prerequisite: MUSB09H or MUSB20H

Session: Winter Day

J. Mayo

### MUSB22H Supervised Performance I — Instrumental

The practical study of ensemble performance.

Students work in small ensembles (duets, trios, quartets) arranged to suit the abilities of individual performers and prepare works for public performance within the College. The emphasis of the course is on the particular problems of ensemble performance and it assumes a basic competence on the chosen instrument.

Each group will meet for 2 hours per week, one hour with all students of MUSB22H and MUSB23H in a master class and one hour for group rehearsal and/or coaching.

See timetable for time of master class; group rehearsal times to be arranged in first week of term.

Exclusion: MUSB09H/B10H

Pre or Corequisite: MUSA01Y

Session: Winter Day

J. Mayo

### MUSB23H Supervised Performance II — Instrumental

A continuation of MUSB22H.

Exclusion: MUSB10H

Prerequisite: MUSB22H or MUSB09H

Session: Winter Day

J. Mayo

### Courses Not Offered in 1984-85

**MUSB01S Music of the Twentieth Century**

Prerequisite: MUSA01

**MUSB02F Music of the Classical Period**

Prerequisite: MUSA01

**MUSB06S Music of the Romantic Period**

**MUSB11F Music for the Theatre**

Prerequisite: MUSA01 or permission of instructor.

**MUSB13F Bach**

Prerequisite: MUSA01

~~MUSB14F Jazz~~

**MUSB15F Music in Elizabethan England**

Prerequisite: MUSA01

**MUSB17F Materials of Music I**

Prerequisite: MUSA01

**MUSB18S Beethoven**

Prerequisite: MUSA01

**MUSB19F Keyboard Music**

Prerequisite: MUSA01Y

**MUSB24S Materials of Music II**

Prerequisite: MUSB17F

## Philosophy

**Discipline Representative:** P. Thompson  
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.

### Note to Majors and Specialists:

Many of the philosophy courses can be offered only on a two or three year rotation. Some, like A01, B01 and JMP50, are given every year. The courses listed as Not Offered in 1984-85 are likely to be offered the following year, and some of this year's offerings will be dropped to make room for them. You should try to plan your program a year or two ahead to be sure of getting the courses you want. See the Discipline Representative for further information.

Friday 2-4 p.m. is reserved for the **Philosophy Club**. Interested students and staff should try to leave these hours free.

### Specialist Programme in Philosophy

**Supervisor:** P. Thompson (284-3279)

Students must complete at least twelve full-course equivalents including:

- 1 PHLA01Y Fundamental Questions of Philosophy
- 2 PHLB01F Morality and Values
- 3 PHLB20F/S Belief, Knowledge and Truth
- 4 JMPB50F Symbolic Logic
- 5 PHLB60F/S Existence and Reality
- 6 Four half-courses from PHLB40F to PHLB49S
- 7 Two full-course equivalents in C-level Philosophy courses
- 8 Six additional half-courses in Philosophy
- 9 Two full-course equivalents from cognate courses in other disciplines agreed upon in consultation with the Supervisor.

### Major Programme in Philosophy

**Supervisor:** G. Nagel (284-3182)

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 modifications must have the approval of 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; JBHB01Y, Introduction to the Biological Sciences; as courses which provide important intellectual and historical background for the study of Philosophy.

### PHLA01Y: 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?

We examine these questions by reading works of great philosophers of the past in the light of contemporary discussion. Readings include Plato's *Symposium*; Augustine's *On Free Choice of the Will*; Descartes' *Meditations*; Martin Buber's *I and Thou*; and Richard Taylor's *Metaphysics*.

These works will introduce us to philosophical issues concerning the nature of persons and of God; the nature of personal relationships and friendship; freedom and immortality; evil; and the limits of knowledge.

Session: Winter Day

P. Gooch

### PHLA01Y: L02 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*.

Session: Winter Day

G. Nagel

### PHLA01Y: 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?

Fall Term Texts will be selected from Plato's *The Last Days of Socrates* and Gorgias, Kant's *Foundations of the Metaphysics of Morals*, and Nietzsche's *Beyond Good and Evil*. Spring Term Texts to be announced.

Session: Winter Day

W. Graham

### PHLB01F Ethics

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. Texts: Aristotle, *The Nicomachean Ethics*; Kant, *The Critique of Practical Reason*; and Iris Murdoch, *The Sovereignty of Good*.

Session: Winter Day/Summer Evening

G. Nagel/A. Gombay

### 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*.

Session: Winter Evening

G. Nagel

**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 1983 the course will involve an examination of human sexual relations, abortion, world hunger, war, discrimination and capital punishment.

Session: Winter Day/Summer Evening

P. Thompson/A. Gombay

**PHLB10S Political Philosophy**

A study of the philosophical problems of the state and society such as the individual in society, the coercive state, the Stateless society.

A consideration of the thought of some of the following philosophers: Hobbes, Locke, Rousseau, Hegel, Marx, Mill, Bakunin, Kropotkin, Mussolini, Guevara, Debray, etc. The course will enquire into the conceptual foundations of liberalism, communism, fascism, terrorism and democracy. Texts will include Gewirth's *Political Philosophy*.

Session: Winter Day

W. Graham

**PHLB15S Philosophy of Education**

A study of the nature of education.

Educational theories are practical theories of human nature. They 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*.

Session: Winter Day

G. Nagel

**PHLB20S 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

**PHLB40F Plato and his Predecessors I**

A study of the origins of philosophy in Greece and the views of the earliest philosophers regarding the nature of the world. A consideration of the main aspects of the philosophy of Plato.

The course will centre on Plato's presentation of Socrates: his philosophical motivation and method; his irony and ignorance; his ethics and religion. We read many of the "Socratic" dialogues and include a detailed study of the *Gorgias*, the *Protagoras* and the *Symposium*.

Session: Winter Evening

P. Gooch

**PHLB41S Plato and His Predecessors II**

A continuation of PHLB40.

The central text for this continued study of Plato is the *Republic*, which will be studied in some detail. Passages of some later dialogues will also be incorporated at appropriate points.

Prerequisite: PHLB40

Session: Winter Evening

P. Gooch

**PHLB48F Philosophy in the Late Modern Age I**

A study of the thought of Hegel, Schopenhauer and Nietzsche, three philosophers whose work is fundamental to the age in which we presently live. Texts: Hegel, *Texts and Commentary: Preface to the 'Phenomenology of Spirit'*; *Introductory Lectures on Art, Religion, Philosophy*; Schopenhauer, *Essays and Aphorisms*; Nietzsche, *A Nietzsche Reader*.

Session: Winter Day

W. Graham

**PHLB49S Philosophy in the Later Modern Age II**

A study of the doctrines of some philosophers in the so-called analytic tradition: Frege, Russell, Wittgenstein. These doctrines are about mind, language and reality.

In the current session we will examine the relationship in thought between Friedrich Nietzsche and Ludwig Wittgenstein. Texts will include Nietzsche's *The Will to Power* and Wittgenstein's *Tractatus Logico-Philosophicus* and *Philosophical Investigations*.

Session: Winter Day

W. Graham

**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, and quantification 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 however presented in lectures. D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning*.

Session: Winter Evening

A. Gombay

**PHLB60F Existence and Reality**

A consideration of problems in metaphysics.

Session: Winter Day

**PHLB61F 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 theme around which the course is organized is the problem posed by evil: if God is all good and all powerful, why is there pain and suffering? A discussion of this issue in the Jewish and Christian traditions takes us through topics such as the relationship between religion and ethics; the possibility of miracle; immortality; and the reasonableness of theistic belief.

Session: Winter Day

P. Gooch

**PHLB70S Philosophy of Science**

A study of philosophical questions raised by the natural sciences.

Exclusion: PHLB71

Prerequisite: One course or half-course in Philosophy or in the Division of Science.

Session: Summer Evening

P. Thompson

**PHLB71F Philosophy of Biology**

An examination of the conceptual and logical aspects of explanation, theory, and model construction in Biology.

The following topics will be covered: the concept of cause and its role in law and causal explanation in biology, the logical structure of the modern synthetic theory of evolution, tempo and mode in evolution (punctuated equilibria and phyletic gradualism), the Kuhnian concept of paradigm, and the role of models in biology. Two hours of discussion per week.

Exclusion: PHLB70

Prerequisite: BIOA03

Session: Winter Day

P. Thompson

**PHLC05S Biomedical Ethics**

An examination of the social and ethical aspects of the life sciences and medicine.

The following issues will be discussed: the definition of health and disease, euthanasia, genetic technologies, behaviour control and psychosurgery, and health care delivery.

Exclusion: (PHLB87)

Prerequisites: PHLB05F/S or PHLB01F/S

Session: Winter Day

P. Thompson

**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 Evening

A. Gombay

PHLC50F



**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.

The following topics will be discussed: the logical structure of evolutionary theory and the conceptual assumptions underlying it, models in biology, and cladistic versus evolutionary systematics.

Prerequisite: PHLB70 or PHLB71; permission of instructor

Session: Winter Day  
P. Thompson

**PHLC75F/S-C94F/S** Seminar in Philosophy

A study in depth of a philosopher or philosophers or of a philosophical problem. Limited enrolment: 15

**PHLC75F** Seminar in Philosophy: Quine

An examination of some of the central aspects of Quine's philosophy. We will study his writings on truth, meaning, reference, intension and ontological relativity.

Prerequisite: Two B-level half-courses in Philosophy

Session: Winter Day  
P. Thompson

**PHLC76S** Seminar in Philosophy: Aesthetics

A study of critical literature concerned with the themes of the aesthetic theories of Plato, Kant, Tolstoy, etc.

Prerequisite: Two B-level half-courses in Philosophy, including PHLB03  
Session: Winter Evening  
G. Nagel

PHLC77F  
CECF  
CEIS

**PHLC78F** Seminar in Philosophy: What is an Individual?

This seminar will investigate a central question in philosophy from its very beginnings to the present day — what is an individual? We will study the development of the concept from its origins in such philosophers as Parmenides and Aristotle to its modern treatment in the thought of such people as Goethe, Hegel, Freud, Marcuse, Nietzsche, Landauer, Strawson, and Habermas.

The concept of an individual not only has metaphysical and ethical significance but has psychological, social, military and meta-strategic consequences as well. Among the themes we will follow are the role of myth, the image of the self, time and music, need, and the social construction of consciousness.

Session: Winter Day  
W. Graham

**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 1984-85**

**PHLB04F/S** Philosophy of Literature

**PHLB11F/S** Philosophy of Law

**PHLB12F/S** Marx and Marxism

Prerequisite: One course or half-course in Philosophy, Sociology, Political Science or Economics - PHLB10 is recommended but not required.

**PHLB14F** Philosophy of Social Science

Prerequisite: One course in Philosophy or in the Division of Social Sciences.

**PHLB16F/S** Philosophy of History

**PHLB17F/S** Anarchism

**PHLB30S** Existentialism

**PHLB42F** Aristotle I

**PHLB43S** Aristotle II

**PHLB44F** Philosophers of the Middle Ages I

**PHLB45F** Philosophers of the Middle Ages II

**PHLB46F** Philosophy of the Early Modern Age I

**PHLB47S** Philosophy of the Early Modern Age II

**PHLB53S** The Art of Thinking

**PHLB80F** Philosophy of Language

**PHLB81F/S** Theories of Mind

**PHLC02F/S** Contemporary Ethical Theories

**PHLC11S** Topics in the Philosophy of Law

Prerequisite: PHLB11

**JHPC44Y** Canadian Social Issues: Historical and Philosophical Perspectives

Prerequisite: HISB04 or PHLB01 or PHLB05

**PHLC52F/S** Modal Logic and Probability

Prerequisite: JMPB50

**PHLC53F/S** Games and Decision

Prerequisite: A B-level course in economics, political science, sociology, psychology, philosophy, mathematics or logic.

**PHLC54F/S** Metalogic

Prerequisite: JMPB50

**PHLC61F/S** Studies in Philosophy of Religion

Prerequisite: PHLB61

**PHLC87S** Seminar in Philosophy: Lying and Deceit

Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

**PHLC88S** Seminar in Philosophy: Spinoza

Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

**PHLC89S** Seminar in Philosophy: The Philosophy of Friedrich Nietzsche

Prerequisite: Two B-level half-courses in Philosophy; permission of instructor

**PHLC90F** Seminar in Philosophy: Space and Time

Prerequisite: Two B-level half-courses in Philosophy

**PHLC91S** Seminar in Philosophy: The Pre-Socratics

Prerequisite: Two B-level half-courses in Philosophy

**PHLC92S** Seminar in Philosophy: Ways of Interpreting the World

Prerequisite: Two B-level half-courses in Philosophy

## Physics

*Discipline Representative:* P.J. O'Donnell  
284-3342

Physics is the study of the basic laws which describe how material objects move and influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws — quantum mechanics and the theory of relativity together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of 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. 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.

Students interested in physics should also refer to:

JPAC10Y Relativity and Cosmology  
JPMC42S Advanced Classical Mechanics

### Specialist Programme in Physics

Supervisor: A. Griffin (284-3227)

(Additional optional courses are specified in fourth year for the benefit of students who may be contemplating graduate work and have the necessary prerequisite(s) for one or more 400-series lecture courses.) 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:

PHYA03Y	Physics for the Physical and Life Sciences
MATA26Y	Calculus
or	
(MATA55Y	Calculus with Analysis)

#### Second year:

PHYB01S	Electricity and Magnetism I
PHYB03F	Introductory Electronics
PHYB04F	Waves
PHYB08H	Intermediate Physics Laboratory
PHYB17S	Quantum Physics I
PHYB19S	Thermal Physics
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:

PHYB18F	Special Relativity
PHYC01F	Quantum Physics II
PHYC03Y	Electricity and Magnetism II
or	
PHYC03S	Electromagnetic Fields
and	
PHYC04F	Physics of Solid State Devices
PHYC05H	Advanced Physics Laboratory
JPMC42S	Advanced Classical Mechanics
MATC51F	Differential Equations I
MATC60F	Complex Analysis I

#### Fourth year:

three full-course equivalents from:

JPAC10Y	Relativity and Cosmology
JPA300Y	Physics and Archeology
PHY215H	Earth and Atmospheric Physics
PHY335H	Introduction to Nuclear Physics
PHY337H	Elementary Particle Physics
PHY339H	Electronics
PHY345H	The Physics of Medical Imaging
PHY354H	Macroscopic Physics
PHY425Y	Advanced Quantum Physics Laboratory
PHY426H	Advanced Quantum Physics Laboratory

The 400-series lecture courses (chosen in consultation with the Programme Supervisor).

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. Griffin 284-3227

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:

PHYA03Y	Physics for the Physical and Life Sciences
or	
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	Quantum Physics I
PHYB08H	Intermediate Physics Laboratory

#### Third year:

PHYC01F	Quantum Physics II
MATC51F	Differential Equations I
One and one-half additional full-course equivalents from PHYB18F, B19S, C03S, C04F, C05H, JPMC42S	

### PHYA03Y 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.

Two lectures and one tutorial per week, and a three-hour laboratory every second week. Lab Fee: \$20.00

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.

Exclusion: (PHYB13)

Prerequisite: PHYA03 and MATB41

Other recommended courses: PHYB03; PHYB08; MATB42 or MATB55

Session: Winter Day

### PHYB03F Introductory Electronics

Linear circuit theory (DC, AC and transients), simple filters. Non-linear elements, including diodes and transistors; rectifier, amplifier, and pulse circuits. Logic gates, Boolean algebra, and digital electronics.

Prerequisite: PHYA03

Session: Winter Day

### PHYB04F Waves

Topics include damped simple harmonic oscillator; power absorption and resonance; normal modes in coupled oscillators; standing waves in continuous systems (strings, membranes and bars); running waves and pulses; polarization; reflection and transmission at boundaries; interference and diffraction of waves.

Prerequisite: PHYA03, 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 and PHYB03. Optional concentration in electronic circuits in the second term is available. 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. Lab Fee: \$10.00

Prerequisite: PHYA03

Corequisite: PHYB03

Session: Winter Day

### PHYB17S Quantum Physics I

Background (photoelectric effect, atomic spectra, discrete energy levels, blackbody radiation, matter waves). Wave-particle duality. Thomson and Bohr models of the hydrogen atom. Quantization of angular momentum. Time-dependent Schrödinger equation and its solutions for simple systems. Eigenfunctions and eigenvalues. Normalization and orthogonality. Superposition of states. Uncertainty relation. Wave packets. Unstable states.

Exclusion: CHMC02Y

Prerequisite: PHYB04; MATB41 or MATB50

Session: Winter Day

### PHYB19S Thermal Physics

Introduction to statistical methods of dealing with large systems in equilibrium; canonical and grand canonical ensembles; meaning of temperature and chemical potential; partition functions and free energies for simple systems; properties of ideal Fermi, Bose and Boltzmann gases; binary mixtures; mean-field theory of cooperative phenomena.

Exclusion: (PHYC06F)

Corequisite: PHYB17S

Session: Winter Day

**PHYC01F Quantum Physics II**

Continuation of PHYB17S. Particle scattering, barrier penetration and tunnelling. Probability current density. Field emission of electrons. Alpha decay. Hydrogen atom. Angular momentum operators and quantization. Spin. Fine structure. Identical particles. Pauli principle. Periodic table. Perturbation theory. Variational method. Helium atom. Transition probabilities. Formal structure of quantum mechanics.

Prerequisite: PHYB01; PHYB17; (MATB41 and MATB42) or (MATB50 and MATB55)

Session: Winter Day

**PHYC03S Electromagnetic Fields**

Wave motion, Fourier analysis, Maxwell's equations. Incoherent and coherent sources of electromagnetic waves, propagation in infinite media (free space, non-conductors, conductors). Lasers. Poynting vector. Dispersion. Reflection and refraction, mirrors and lenses, illumination in optical systems, polarized light. Interference, diffraction, image formation and image processing, partial coherence, holography.

Prerequisites: PHYB01; PHYB04; MATB41 or MATB50

Corequisites: MATC51

Session: Winter Day

**PHYC04F Physics of Solid State Devices**

An introduction of the basic principles of solid state physics which underlie devices of modern technology. The quantum physics needed to understand the electronic properties of semiconductors and metals is discussed with emphasis on device characteristics and operation. Topics include semiconductor diodes, P-N junctions, field-effect transistors, and other elements of large-scale integrated circuits, superconducting magnets, Josephson junctions, liquid crystal displays.

Prerequisites: PHYB01; PHYB03; PHYB19

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. One six-hour laboratory period every second week. A single experiment may extend over more than one period. Lab Fee: \$10.00

Prerequisite: PHYB08 and permission of instructor

Corequisite: PHYC01

Session: Winter Day

**JPMC10Y Relativity and Cosmology**

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

Consult Divisional Office or Astronomy discipline representative.

Prerequisites: PHYB01; JPMC42; PHYB18F

would be desirable

Session: Winter Day

**Courses Not Offered In 1984-1985****JPMC42S Advanced Classical Mechanics**

Prerequisite: PHYA03, MATC51

**PHYB18F Special Relativity**

Prerequisite: PHYA03

**Political Science**

*Assistant Chairman:* M. Donnelly

Political science consists of a variety of approaches to the study of politics. Politics loosely refers to the process of trying to resolve conflicting interests and points of view in the public realm. One might say the subject of Political Science is the state while that of economics is the economy and that of sociology is society. But the discipline includes not only the study of policies and arrangements created as a means to preclude violent resolution of conflict at the level of the nation state but also the institutional and informal means by which a group may enhance its power (that is, their ability to have their views and interests implemented) from the level of the municipality to the international realm.

Political science is divided into the following fields: Canadian government, comparative government (subdivided into the politics of industrialized and non-industrialized countries), public administration, international relations, political behaviour and political theory. In the study of *Canadian Government* students will become familiar with constitutional arrangements and policies at various levels of government in Canada. *Public administration* deals with the institutions or organizational structures through which public policies are implemented. *Comparative Government*, a comparison of practices and policies of a wide variety of other nations, will broaden the student's awareness of foreign political systems and further facilitate an understanding of Canadian political culture. *International relations* is devoted to the analysis of the foreign policy of various nation states and of the relations obtaining amongst nation states. *Political behavior* adopts a quantitative approach to political questions and is differentiated from other divisions of political science in terms of its method rather than its subject matter. *Political theory* explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the place of politics in relation to varying conceptions of the "quality of life".

Courses may be taken in varying sequences and combinations, leading to a Specialist Programme for those completing an approved Programme of ten full-course equivalents, or to a Major Programme for the completion of a more limited sequence of courses.

**Specialist Programme in Political Science**

*Supervisor:* V. Falkenheim

Students who intend to pursue a Specialist Programme in Political Science should, as early as possible, draw up a preliminary programme of

study in consultation with a member of the Political Science staff. An orientation meeting will be scheduled in the Fall to help familiarize students with the aims of the Political Science Programmes as well as to introduce faculty responsible for teaching, and career and graduate study guidance. The recommended sequence of courses begins with an introductory course at the A level. Students who wish to pursue advanced courses in Canadian Government should also include POLB50 early in their Programme.

Students must complete ten full-course equivalents in Political Science approved by the Supervisor and including the following:

- 1 POLA01 Introduction to Political Studies
- 2 Two courses in political theory from:  
POLB70-B71, POLC70-C71
- 3 POLB50 Canadian Government and Politics
- 4 One course from each of any three of:  
A Canadian Government and Public Administration: POLB51-B54, POLB60, POLC50-C51, POLC60-C62  
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, POLC93-C97

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:* V. Falkenheim

Students must complete at least six full-course equivalents in Political Science including:

- 1 POLA01 Introduction to Political Studies
- 2 POLB50 Canadian Government and Politics
- 3 A course in political theory (POLB70 or B71)
- 4 A full-course equivalent in each of at least two of:  
A Canadian Government And Public Administration: POLB51-B54, POLB60, POLC50-51, POLC60-62  
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, POLC93-97

### Specialist Programme in Economics and Political Science

(see under Economics)

#### POLA01Y Introduction to Political Studies

This course seeks to introduce students to political inquiry by a focus upon an area of major concern for Canadians: the applicability of theories and notions respecting the liberal-democratic state to the Canadian situation. In the first term the main questions in the theory of liberal democracy will be raised in order to work towards an understanding of what "liberal democracy" means and what principles are involved in it. In the second term the Canadian political system will be analyzed in order to discover to what extent and in what manner these principles can be applied in Canadian political institutions and society. Where necessary, comparisons will be made with other liberal democracies. Two hours of lectures with discussion and one tutorial hour per week. Attendance at lectures and tutorials is required.

Session: Summer Evening, Winter Day

J. Colman / J. Esbrey

#### 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. Two lectures a week, and tutorial 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,

R.S. Blair

#### POLB51F 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.

Exclusion: (POLB37)

Prerequisite: POLB50 (or POLB01)

Session: Winter Day

R.S. Blair

#### POLB52F Canadian Constitutional Law

An examination of the judicial role in interpreting the division of legislative powers contained in the B.N.A. Act. The texts of relevant decisions will be analysed in detail. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers.

The main text in the course is Peter H. Russell (ed.), *Leading Constitutional Decisions* (rev. ed.).  
Exclusion: (POLB32)

Prerequisite: POLB50 (or POLB01)

Session: Winter Day

R.S. Blair

#### POLB53S 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

J. Esbrey

#### POLB60Y Introduction to Public Administration and Policy Making

The role of bureaucracy in politics and public policy development in Canada and other industrialized democracies. Introduction to theories of public administration and policy-making and types of administrative institutions and procedures. Analysis of the process of formulating, implementing, and evaluating public policy in a modern democratic state.

Session: Winter Evening

R. Manzer

#### 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. 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 benefited 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 are encouraged to undertake further detailed research in areas where they have the necessary psychological or political science background. During the fall term the focus will be on conflict in political systems and political corruption. In the spring term the focus will be on human nature and politics and the influence of personality factors.

Exclusion: (POLB24)

Session: Winter Day

J. Esbrey

#### POLB70Y Political Thought from Plato to Locke

A discussion of the political thought of Plato, Aristotle, Augustine, Machiavelli, Hobbes and Locke.

Students will be expected to read Plato's *Republic*, Aristotle's *Politics*, Machiavelli's *The Prince*, Hobbes' *Leviathan* (Parts one and two) and Locke's *Second Treatise of Government*. The political writings of St. Augustine and St. Thomas Aquinas will also be studied.

Two hours of lectures and one tutorial hour per week.

Exclusion: (POLB06)

Session: Winter Day

#### POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries

A study of the major political philosophers of eighteenth and nineteenth centuries.

Students will be expected to study selected writings of Rousseau, Hegel, J.S. Mill and Marx. Two hours of lecture.

Exclusion: (POLB03)

Session: Winter Day

J. Colman

#### POLB80Y International Relations

A study of the nature of the international system; the factors that motivate foreign policies; and the institutions for the conduct of international relations. The purpose of the course is to help the student develop intellectual tools with which to analyse politics at the international level.

Exclusion: (POLB10)

Session: Winter Day

A. Rubinoff

#### 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.

Exclusion: (POLB23)

Session: Winter Day

S. Solomon / T. Colman

#### 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.

Exclusion: (POLB26)

Session: Winter Day

A. Rubinoff / M. Donnelly

**POLB89Y Politics and Society in Contemporary Japan**

An analysis of politics and government in contemporary Japan. Special attention will be given to social and cultural explanations of political behaviour. The contributions made by government policy toward achieving miraculous economic growth will be considered.

Exclusion: (POLB39)

Session: Winter Day

M. Donnelly

**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 Hag's *The Poverty Curtain: Choices for the Third World* (New York: Columbia University Press, 1976).

Exclusion: (POLB38)

Session: Winter Day

~~K.A. Sandbrook~~

N. Gálvez

**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. Falkenheim

**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: POLB50 or POLB53 or POLB60 (or POLB01 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).

Exclusion: (POLB29)

Session: Winter Day

J. Colman

**POLC94S Selected Topics on Developing Areas**

A detailed examination of particular problems in the study of developing areas. The topics will be announced annually in the spring.

Prerequisite: POLB91 or permission of instructor.

Session: Winter Day.

**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, Winter Evening, Summer Evening

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 1984-85**

**POLB81F Canadian Foreign Policy**

Exclusion: (POLB40)

Prerequisite: POLB50 (or POLB01)

or (POLB10)

**POLB83Y Soviet Foreign Policy**

Prerequisite: POLB80 or POLB86 or

HISB07

**POLB85Y Comparative Politics of Industrial Societies**

Exclusion: POLB18

Prerequisite: One course in Political Science or Permission of Instructor

**POLB88Y Urban Politics**

Exclusion: (POLB36)

**POLB90Y Contemporary British Politics**

**POLB92Y Politics and Society in Independent Africa**

Prerequisite: none, but a course in introductory political science would be helpful

**POLC50Y Canadian Problems in Comparative Perspectives**

Prerequisite: POLB60 (or POLB05)

or POLB53 (or POLB35)

**POLC51S Topics in Canadian Government**

Exclusion: (POLB37)

Prerequisite: POLB50 or (POLB01)

**POLC61S Policy Development**

Prerequisite: POLB50 or POLB53 or

POLB60 (or POLB01, POLB05 or

POLB35)

**POLC62F Organized Interests and the State**

Prerequisite: POLA01 or POLB50

(now B60) or POLB85

**POLC65F Topics in Political Leadership**

Exclusion: (POLC12F/S)

Prerequisite: POLB66 (POLB24) or

POLA01 or POLB50 (POLB01) or

POLB85 (POLB18) or POLB87

(POLB26) or POLC50 (POLC15)

**POLC71Y Canadian Political Ideas**

Prerequisite: one of POLB50,

POLB70, POLB71, HISB04

**POLC72F Selected Topics in Political Philosophy**

Prerequisite: POLB70, POLB71, or

Permission of Instructor.

**POLC73S Selected Topics in Political Philosophy**

Prerequisite: POLB70, POLB71 or

Permission of Instructor

**POLC81S The Psychology of International Relations**

Exclusion: (POLC11F/S)

Prerequisite: POLB66 or POLB80

**POLC85Y Comparative Communism**

Exclusion: (POLC06)

Prerequisite: One B-level course in

Political Science

**POLC86S Intergovernmental Relations in the European Economic Community**

Exclusion: (POLB34)

**POLC93F Selected Topics on Developing Areas**

## Psychology

Psychology is that branch of scholarship 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.

Students particularly interested in language, communication, and thought should consider the Cognitive Sciences programme described in this calendar.

### Specialist Programme in Psychology

Supervisor: G.C. Cupchik, 284-3184

The programme requires completion of 11.5 full-course equivalents.

**A** 9.5 full-course equivalents in Psychology as follows:

- 1 PSYA01Y Introduction to Psychology
- 2 Statistical Methods
  - (i) PSYB07F/S Data Analysis in Psychology and
  - (ii) PSYB08F/S Experimental Design in Psychology

### 3 Laboratory Training

- (i) PSYB01F/S Introduction to Psychological Research and
- (ii) 0.5 from among:
  - PSYB11F/S Social Psychology Laboratory
  - PSYB34F/S Psychometric Methods
  - PSYB40F/S Learning
  - PSYB53F/S Microcomputers in Experimental Psychology
  - PSYB62Y\* Research in Physiological Psychology
  - \*Students selecting PSYB62Y also receive 0.5 course credit towards
  - satisfaction of Requirement 4b or 6 below

**4** Courses at the B-level: 3.0 full-course equivalents: Students are required to select at least 1.0 full-course equivalent from each of the three content groups listed below in Requirements a, b, and c

- a Social, Developmental and Personality courses at the B-level listed in the 10-, 20-, and/or 30-series
- b Comparative, Learning and Physiological courses at the B-level listed in the 40-, 60-, and/or 70-series
- c Sensation, Perception, Cognition and Memory courses at the B-level listed in the 50-series

**5** Courses at the C-level: 2.0 full course equivalents

\*\*The following restrictions apply to the selection of C-level courses in Requirement 5:

- (i) Not more than 1.5 full-course equivalents may be selected from the content groups listed under 4a, b, c
- (ii) Not more than 1.0 full-course equivalent may be selected from the C90-series

**6** 1.5 additional full-course equivalents at the B- or C-level in any area of Psychology

**B** 2.0 full-course equivalents at the B- and/or C-level in a discipline or disciplines other than Psychology

\*\*STUDENTS MUST BALLOT FOR C-LEVEL COURSES - READ INSTRUCTIONS BELOW

### Major Programme in Psychology

Supervisor: G.C. Cupchik (284-3184)

The programme requires completion of 6.0 full-course equivalents in Psychology as follows:

- 1 PSYA01Y Introduction to Psychology
- 2 Statistical Methods
- PSYB07F/S Data Analysis in Psychology
- 3 Laboratory Training
- PSYB01F/S Introduction to Psychological Research

Courses at the B-level: <sup>1.5</sup> ~~2.0~~ full-course equivalents

Students are required to select at least <sup>0.5</sup> ~~1.0~~ full-course equivalents from each of the content groups listed below in Requirements a, b, and c

- a Social, Developmental and Personality courses at the B-level listed in the 10-, 20-, and/or 30-series
- b Comparative, Learning and Physiological courses at the B-level listed in the 40-, ~~60- and/or 70-series~~ <sup>60-series and/or 70-series</sup>
- c Sensation, Perception, Cognition and Memory courses at the B-level listed in the 50-series

Courses at the C-level: 1.0 full-course equivalent

The following restriction applies to the selection of C-level courses in Requirement 5:

More than 0.5 full-course equivalent may be selected from the C90-series for this Requirement

1.5 additional full-course equivalents at the B- or C-level in any area of Psychology

**STUDENTS MUST BALLOT FOR C-LEVEL COURSES - READ THE INSTRUCTIONS BELOW**

The above requirements are for the B.A. Specialist and B.A. Major degrees in psychology. Students desiring a B.Sc.

Specialist must complete 0.5 additional full-course equivalent at the B- or C-level in any area of Psychology

Major must complete 1.0 additional full-course equivalent at the B- or C-level in any area of Psychology

**NOTING:** In March, students will be required to ballot for all C-level courses they wish to take in the following year. Permission to register in courses for which the student successfully ballot will be returned in June with registration materials. No students may register in any C-level course for which permission has not been given.

The ballot confirmation to be valid, students must pre-register.

### 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, including discussion, demonstrations, and films.

Session: Summer Evening

G.B. Biederman and 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.

Session: Winter Day, Winter Evening  
The Faculty

### PSYB01F Introduction to Psychological Research

The intent is to present the principles of the scientific method as they apply to experimental psychology. Using examples from both animal and human experiments, the development of research projects in psychology will be described. The nature of hypothesis testing through the design of experiments provides the nucleus of the course. Out of this grows discussion of issues important in planning and conducting research; generating research problems, experimental control, sampling of subjects, scaling and measurement, interpretation and evaluation of results, theory construction, and preparation of the research report. The social psychology of the experiment and ethical issues in research will also be considered.

Topics will include classical and operant conditioning, motivation, learning, perception, and memory. Research methods will be introduced in lectures and illustrated in laboratory exercises. This course is required by both the Major and the Specialist Programmes, and provides the basic skills necessary to take the other laboratory course in psychology. Lab fee \$10.00.

Prerequisite: PSYA01

Exclusions: (PSYB09), (PSYB52)

Session: Winter Day (F), Winter Evening (F)

G. Biederman, M. Smith

### **PSYB07F 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 and one hour of tutorial per week.

Exclusion: ANT43, ECOB11, GGRB02, STAB57 (MATB57), SOCB06

Session: Winter Day(F), ~~Winter Evening (F)~~  
B. Forrin

### **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 and one hour of tutorial per week.

Exclusion: (MATC52)

Prerequisite: PSYB07 or STAB57 (MATB57)

Session: Winter Day

B. Forrin

### **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, non-verbal 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.

Prerequisite: PSYA01

Session: Winter Evening (S)

J. Bassili

### **PSYB11S 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. Lecture, discussion, and laboratory work.

Prerequisite: PSYB07; PSYB10; PSYB01 (beginning 1983-84)

Session: Winter Day

J. Bassili

### **PSYB12S Advanced Social Psychology**

A detailed examination of selected social psychological issues introduced in PSYB10.

Attitudes play a central role in our social lives. This course examines the nature of attitudes, their development, organization and change. Practical issues such as the measurement of attitudes and the relationship between attitudes and behaviour

will be covered. In addition, the course examines belief systems and their manifestation in political and moral ideologies. Teaching method: lectures.

Prerequisite: PSYB10

Session: Winter Day

### **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. Two lecture hours and one tutorial per week.

Prerequisite: PSYA01

Session: Winter Day(F)

### **PSYB21F Advanced Developmental Psychology**

This course considers the development of intrapersonal and interpersonal processes from a life-cycle perspective. The emphasis will be on development during early to middle adulthood, with some material drawn from earlier phases of development for comparative purposes.

Among the issues which may be considered are the following: the development of self-concept, intrinsic motivation, achievement, interpersonal attraction. Teaching method: lecture-discussion.

Prerequisite: PSYB20

Session: Winter Day

### **LPB24S Developmental Psycholinguistics**

The development of language in children. How do children acquire phonological, syntactic, semantic and pragmatic rules—How is language development related to other kinds of cognitive developments.

There will be lectures, discussions and analysis of tapes of children's language

Exclusion: (LINB15)

Prerequisite: One full-course equivalent in LIN or PSY.

Session: Winter Day, *Summer Evening*  
Gopnik

### **PSYB30S 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: Winter Evening(F,S), *Summer Evening*  
J. Pauker

### **PSYB34F Psychometric Methods**

An intensive exploration by means of lectures and workshops of the principles and methods underlying the construction of psychological tests, the interpretation of the scores they yield, and the assessment of their worth as diagnostic and predictive devices in educational, industrial, and clinical settings, illustrated by reference to a wide



variety of measures of talent, interest, and character.

Limited enrolment: 25

The course focuses upon testing rather than upon tests. It seeks to impart those psychometric skills broadly applicable to the range of assessment procedures; it does not take as a significant objective the development of skill in the administration and scoring of particular tests.

Exclusion: (PSYB33)

Prerequisite: PSYB07 (or equivalent); PSYB01

Session: Winter Day

B. Forrin

### PSYB40S 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. Lab fee \$10.00.

Prerequisite: PSYA01; PSYB01; (PSYB09);

PSYB07 or STAB57 (MATB57)

Session: Winter Day

G.B. Biederman

### PSYB45S 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 Evening

### 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 sensor 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.E. Foley

### PSYB51S Perception and Cognition

Theory and empirical research on visual and tactile perception, representation and communication.

Topics include perception and depiction in the handicapped and normal perceiver, perceptual information and projection, illusion, stability and instability in perception, possible and impossible scenes, human and computer scene-analysis, ambiguity in perception, literal and metaphoric pictures, perception of objects and images, outline representation, effects of incomplete information. The empirical research is on adults and children, a range of human cultures and on different species. Demonstrations and exercises form part of the course work.

Pre-requisite: PSYA01Y

Session: Winter Day

J.M. Kennedy

### PSYB53S Microcomputers in Experimental Psychology

Examination of the widespread impact of computers in experimental psychology. This is a laboratory course emphasizing the use of microcomputers in preparing, controlling, and analyzing experiments. Students will use a simple programming language, and will have considerable "hands-on" experience with laboratory microcomputers. The aim is to develop the skills necessary to program experiments in psychology with particular emphasis on research in cognition. Limited enrolment: 20.

The teaching method will consist of lectures on using the computer as a tool for psychological research, and lectures on the programming

language. No previous computer experience is expected or required.

Prerequisite: PSYA01, PSYB01 (PSYB09/PSYB52), and at least two other B-level psychology courses.

Exclusion: (PSYC56)

Session: Winter 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. An overview of current work in the field is offered.

Lectures and discussion.

Prerequisite: One full-course equivalent in either LING or PSY.

Session: Winter Day, Summer Evening

R. Binnick

### PSYB57S Memory and Cognition

Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage, and retrieval of information in human memory.

Also surveyed are the related topics of attention and problem solving, and their role in a general model of information processing.

Three lecture hours per week. Concurrent readings from original sources will supplement the text and lecture material.

Prerequisite: PSYB01; PSYB07

Session: 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 receive credit for 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. Three hours lecture and one hour lab or tutorial per week.

Prerequisite: PSYA01; PSYB65 is recommended for students with no Biology background.

Session: Summer Evening, Winter Day(F)

### 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

T. Petit

### PSYB62Y Research in Physiological Psychology

Instruction in a variety of techniques used in investigations of nervous system function. The course is intended for students particularly interested in the neurosciences who are pursuing a Specialist Programme in Psychology Biology or 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. Two hours of lectures and three hours of scheduled laboratory work per week; 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. Lab fee \$20.00.

Prerequisite: PSYA01; PSYB07 or STAB57

(MATB57); PSYB01 (PSYB09) or a Biology

course; permission of instructor

Corequisite: PSYB60; PSYB61 and PSYB08 are

recommended

Session: Winter Evening

**PSYB65F 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 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. Three hours lecture weekly.

Exclusion: PSYB60

Prerequisite: PSYA01 or permission of instructor.

Session: Winter Day

T. Petit

**PSYC15F Current Topics in Social Psychology**

An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25.

Prerequisite: PSYB12 or PSYB10 (plus permission of instructor).

Session: Winter Day

**PSYC16F Critical Analysis in Social Psychology**

Progress in psychology is predicated on developments in both theory and methodology. The primary goal of the course is to enhance skills for critically analyzing both domains in Social Psychology. European and North American approaches to criticism are compared. Evolutionary and revolutionary models of development are contrasted. Disciplinary and professional aspects of social psychology are discussed in relation to scientific progress. Special emphasis is placed on social and personality factors which shape theory construction and validation. Examples are drawn from both cognitive and motivational approaches to social phenomena. Finally, the analogy between Piaget's account of intellectual development in the child and developments in social psychology is considered.

Prerequisite: PSYB10

Session: Winter Day

G. Cupchik

**PSYC20S 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. Lectures, discussions, and oral presentations by students.

Prerequisite: PSYB20

Session: Summer Evening (F), Winter Evening

I. Taylor; J.E. Foley

**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.

Prerequisite: PSYB10, PSYB20

Session: Winter Day

**PSYC32F/S Current Topics in Abnormal Psychology**

An intensive look at selected current problems and issues in the study of abnormal behaviour. Limited enrolment: 30.

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. Lectures, class discussion, and student presentations.

Prerequisite: PSYB20, PSYB32

Session: Winter Day(S)

J. Pauker

**PSYC40S Current Topics in Animal Learning**

An in-depth examination of substance abuse, covering alcohol, drugs and food. Limited enrolment: 25.

The course is concerned with physiological, psychological and social factors in the regulation of alcohol, drug, and food intake, as well as the etiology of the abuse of these substances. The first half of the course will focus on alcohol and drugs, and will include social and psychological precipitating and maintaining mechanisms, physiological and learning accounts of tolerance and dependence, and current treatments. The

second half of the course will focus on food intake and obesity, and will include the concept of weight set-point, genetic versus environmental regulatory mechanisms, the importance of fat cell number, dieting status, cephalic endocrine secretions, current treatments for obesity and future alternatives. There will be 3 hours of lecture per week.

Prerequisite: PSYB40

Session: Winter Day

B. Biederman

**PSYC53S Current Topics in Human Information Processing**

An intensive examination of selected issues and research problems in human information processing.

In 1984-85, the course will focus on the application of psychology to the law, particularly on perceptual and memorial processes which influence the giving of testimony.

Session: Winter Day

Smith

**PSYC54F Art and the Psychology of Perception**

Recent theories of perception and representation relevant to skill in the use of pictures and language.

Topics may include making and interpreting metaphors, recognizing cross-modal equivalence, learning how to draw and symbolize, acquiring the capacity to read and write narrative, training of talent, and effects of perceptual and cognitive handicaps on the development of skills in pictures and words. The research to be considered will emphasize studies on child development. Teaching method includes lectures and student presentations.

Prerequisites: a PSY B20 series or a PSY B50 series.

Session: Summer Evening, Winter Evening

Kennedy

**PSYC55F Disorders of Speech and Language**

A study of abnormalities in the processes of language use and language development discussed in JLPB24S and JLPB55F/S.

In the course we will discuss various types of aphasias and their relationship to brain injury, developmental disorders such as stuttering, dysphasia, and dyslexia, and disorders of language that are related to general disorders such as deafness, blindness or schizophrenia. We will discuss these disorders in relationship to normal language processing and development. Lecture and discussion.

Enrolment limited to 25 Psychology majors or specialists, 45 over all.

Prerequisite: One full course equivalent at B-level in Linguistics or PSYB60 or PSYB65

Exclusion: LINB29

Session: Winter Day

A. Gopnik

**PSYC60F Current Topics in Comparative and Physiological Psychology**

An intensive examination of selected issues and research problems in comparative and physiological psychology.

The course covers the development of the nervous system and correlated behaviour from conception to death. The major emphasis will be on prenatal brain development, and factors governing its normal or abnormal growth. The other end of the developmental spectrum, the aging brain will also be considered, including the biological problems and theories of aging on the brain. Students will be required to work 3-4 hours per week in a practicum situation, working with either mentally retarded, autistic, or hyperactive children, with aged or senile adults, or with experimental laboratory animals. Two hours of lecture per week.

Prerequisite: PSYB60; permission of instructor

Session: Winter Day

T. Petit

**PSYC66S Clinical Psychopharmacology**

Pharmacology of the central nervous system, pharmacokinetics and theoretical bio-psychiatry. Detailed discussion centres on the psychotropic drugs used as anti-psychotics, anti-manics, anxiolytics, and anti-depressants. Related content areas, such as geriatric pharmacology and pharmacological applications to clinical neuropsychology will be introduced.

The course is designed to integrate abnormal psychology and physiological psychology content areas. Lecture, seminar and practicum observation.

Prerequisite: PSYB60 or PSYB65 or permission of instructor

Session: Winter Day(S)

D.L. Chute

**PSYC80F Philosophy and Psychology**

An analysis of selected philosophical issues which concern the discipline of Psychology. Discussed will be such topics as: Behaviorism versus Phenomenology; the mind-body problem; free-will versus determinism; possible differences

**PSYC40S Current Topics in Animal Learning**

Current developments in learning research with emphasis on animal-subject literature. Limited enrolment: 25.

Recent research findings in selected areas of animal learning (such as discrimination learning, aversive control, learning behaviours, dietary control, and addictive behaviours) are presented in seminar form. Research problems are selected for intensive study with the goal of producing experimental resolutions. Students work in teams to facilitate a literature search and the development of a specific experimental proposal to be carried out by the team.

Prerequisite: PSYB40

Time: T2-4 Instructor: G. Biederman

between Psychology and traditional scientific disciplines. Limited enrolment: 25

This course is intended to develop sophistication in dealing with developmental-philosophical issues which arise in the practice of psychology. The specific issues discussed vary from year to year. Teaching method consists of two hours of seminar weekly. Students will report on and critically evaluate recent papers in the philosophy of psychology.

Prerequisite: Three B-level half courses in Psychology and one B-level half-course in Philosophy; JMPB50 is recommended  
Session: Winter Day  
A. Kukla

#### **PSYC85F History of Psychology**

A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century. Twentieth Century schools of psychology are discussed, including functionalism, structuralism, Gestaltism, Phenomenology, Behaviourism and Cognitivism. The course is designed for students who want to integrate their knowledge of the different areas of psychology and offers good preparation for graduate school. Limited enrolment: 25.

This course examines changes in the treatment of three basic problems: mind-body, epistemology (the science of knowledge) and behaviour-ethics. We begin with the ancient Greek philosophers who established the foundations of Western thought and science. The contributions of European philosophers and scientists (both physical and natural) from the Fifteenth through Nineteenth Centuries are then discussed. Topics also considered include: the process of paradigm or theory change in science and the relative contribution of individual genius and Zeitgeist or intellectual climate to scientific developments. Prerequisite: PSYA01Y; two B-level half-courses in Psychology  
Session: Winter Day  
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 culminate in a written submission. Prerequisite: Three full-course equivalents in Psychology; permission of instructor  
Session: Summer Day, Summer Evening  
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: T.B.A.

#### **Courses Not Offered in 1984-85**

- PSYC85F**  
**PSYB70S** Comparative Psychology  
Prerequisite: PSYA01  
**PSYC30F** Current Topics in Personality and Motivation  
Prerequisite: PSYB30  
**PSYC41S** Research in Operant Conditioning  
Prerequisite: PSYB01 (PSYB09), PSYB40 (or PSYB41)  
**PSYC52S** Structures in Psychology  
Prerequisite: PSYB07 or STAB57 (MATB57) or (PSYB09); PSYB20 or PSYB51; permission of instructor.

## **Russian**

**Discipline Representative:** S. Whalen

The Russian discipline offers a selection of courses in Russian language. Literature courses in translation are offered under Humanities. Students who wish to study Russian literature in the original may do so under Supervised Reading.

#### **Overseas Programme**

Students of Russian, 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 \$3,400.

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.

#### **RUSA10Y Introductory Russian**

Fundamentals of Russian grammar, with emphasis on comprehension, reading, writing and conversation.

Starting with the Cyrillic alphabet, students will study basic grammar and vocabulary. Equal emphasis is given to written and oral drills. Three hours per week of intensive grammar and structural oral and written drills. This course is to be taken in conjunction with RUSA11H. The textbook is, *Colloquial Russian*, W. Harrison et al. Routledge, Kegan Paul.  
Corequisite: RUSA11H  
Session: Winter Day  
S. Whalen

#### **RUSA11H Language Practice**

Practical application of language offered in conjunction with RUSA10Y. The focus is on pronunciation and acquisition of conversational Russian.

Two hours of free conversation based on material covered in the introductory course, supplemented by structural drills in the laboratory.  
Corequisite: RUSA10Y  
Session: Winter Day  
S. Whalen

#### **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. Three hours a week plus additional language laboratory practice. The textbooks used are: P.A. Davis and D.V. Oprendeck, *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.

Prerequisite: RUSA10 or completion of Grade 13 Russian  
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  
Staff

## Sociology

**Assistant Chairman:** M. Hammond

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

*Education* - Prof. J.A. Lee

### Specialist Programme in Sociology

**Supervisor:** R. James (284-3193)

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 or SOCB18Y, LINB14F, LINB17S.

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:** R. James (284-3193)

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 the B-level: B02Y, B07Y, B08F/B09S or B18Y, LINB14F, LINB17S.
- 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  
R. Beals, J-L deLannoy, J. Drakich

### 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 data and to employ data to test hypotheses.

Prerequisite: One full-course equivalent in Sociology

Session: SOCB06  
Session: Winter Day

Supervisor: J. Hannigan

### SOCB02Y Structure of Interpersonal Relations

The course begins with a consideration of the problem of social order; i.e., how we constrain individual desires and induce people to act morally. We will also examine the theme 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 interaction processes, and the social psychology of sex and race relations.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day  
Supervisor: J. Hannigan

### SOCB03Y History of Social Thought

A study of the development of sociology and the ideas of sociologists whose ideas have historical 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 then analyzes the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Weber, Simmel, and others. Finally, contemporary schools of sociological theory will be considered.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day  
Supervisor: J. Hannigan

### SOCB05Y Urban Sociology

A review of theories of urban genesis and urban development, the interrelationship of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, employment, etc.), urban social networks

(ethnic and cultural heterogeneity, neighbourhood, community and other voluntary associations).

Prerequisite: One full-course equivalent in Sociology

Session: Winter Evening  
Supervisor: 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 Day  
Supervisor: S. Ungar

### SOCB07Y Small Groups

An analysis of small group behaviour with special reference to the dynamics of structure formation, conflict patterns, maintenance patterns, and patterns of change.

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.

Limited enrolment: 12.

Prerequisite: Two courses in Sociology, one of which must be a B-level course.

Session: Winter Day  
Supervisor: 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 Day  
Supervisor: R. James

### **Major Programme in Sociology**

Supervisor: R.L. James (284-3193). The programme requires completion of seven full-course equivalents in Sociology including:

1. SOCA01Y Introduction to Sociology
2. SOCB01Y or SOCB03Y Methods in Social Research or History of Social Thought
3. One B level macrostructure course from the following (full-course equivalent): B04Y, B05Y, B10Y, B13Y, B14Y, B15Y, B16Y, B20Y, B23Y or JCSB27Y.
4. One B level microstructure course from the following (full-course equivalent): B02Y, B07Y, B08F/B09S or B18Y.
5. One full-course equivalent at the C level in Sociology.
6. Two other B or C level full-course equivalents in Sociology following the usual prerequisite rules applying to chosen courses.

Note: B06F/S is a corequisite of B01Y and counts toward the requirements in #6 above. LINB14F and LINB17S may be applied toward requirement #6.

### **Specialist Programme in Sociology**

Supervisor: R.L. James (284-3193). The programme requires completion of ten full-course equivalents in Sociology 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 of Social Research  
SOCB06F/S Social Statistics (corequisite of B01Y)
3. SOCB03Y History of Social Thought
4. One B level macrostructure course (see list under major programme).
5. One B level microstructure course (see list under major programme).
6. SOCC05Y Contemporary Social Theory
7. One full-course equivalent at C level from courses C01-C29.
8. One full-course equivalent at C level from courses C40-C43.
9. One & one-half other B or C level full-course equivalents in Sociology following the usual prerequisite rules applying to chosen courses.

Note: B06F/S counts toward the requirements in #9 above. LINB14F and LINB17S may be applied toward requirement #9.

**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 Day

**SOCB10Y Social Class and Social Stratification**

Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems, social classes and associated behaviour; social mobility; and class conflict.

Prerequisite: One full-course equivalent in Sociology

Session: Summer Evening

**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 Day

**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

**SOCB16Y Social Change**

A sociological analysis of forms of change, such as industrialization, modernization, urbanization and their consequences for the structure and function of contemporary society.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

J. Lee

**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

**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 sub-cultures; 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

**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

**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**

Education and training of upper-level students, and relationships of higher education to the occupational system. Problems of education or training of older adults.

Exclusion: (SOCC08)

Prerequisite: SOCA01

Session: Winter Day

A. Lee

**SOCB27Y 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. Studies 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: Summer Evening, Winter Day, Winter Evening

**SOCC02S Research on Small Groups**

Laboratory course consisting of a design of research for the study of the process of social interaction in small groups in relation to the stages of group development and the emergent social structures of social relationships.

Prerequisites: SOCB01 and SOCB07 or permission of the instructor

Session: Winter Day

J. Drakich

**SOCC04S Social Movements**

The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the leader of the movement and its routinization. The course readings will be closely related to the theories, and a major concern will be to link the theoretical discussion with the concrete readings of movements.

Prerequisite: Two courses in Sociology, including a B-level course.

Session: Winter Day

**SOCC05A Contemporary Social Theory**

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 Day

W. Isajiw

**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

J. Hannigan

**SOCC07F 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

**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 Summer Evening

J. Drakich

**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 Day

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

**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

**SOCC18Y Sociology of Art and Culture**

A seminar on the organization, production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose any form of "high culture" for special research.

Exclusion: SOCC09 and SOCC18F/S

Prerequisite: Two full-course equivalents in Sociology

Session: Winter Day

R. O'Toole

**SOCC20Y Sociology of Religion**

A sociological analysis of religion as a social institution. Consideration of the problem of a definition of the phenomenon; analysis of major theoretical and empirical contributions to the field; and investigation of the forms of religion in historical and contemporary contexts.

Exclusion: (SOCC20F/S)

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course.

Session: Winter Evening

R. O'Toole

**SOCC22S Qualitative Methods in Social Research**

Systematic analysis of basically non-statistical or qualitative materials. The craftsmanship of research. The problems, limitations and techniques of sociohistorical analysis, content analysis, and methodologies for the study of non-academic materials from non-scholarly sources. Limited enrolment: 15

Prerequisite: SOCA01 and one B-level course in Sociology

Session: Winter Evening

J. Drakich

**SOCC24S Changing Family Life in Canada**

Examination of the major changes in the structure of the family in Canada, and its consequences for family life.

Prerequisite: Two courses in Sociology, one of which must be a B-level course.

Session: Winter Evening

R. James

**SOCC28F Sociology of Aging**

An examination of the latter stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children, the significance of retirement, problems of adjustment to aging, the place of the aged person in the modern family, and bereavement.

Prerequisite: SOCB08 and SOCB09 (or SOCB12)

Session: Winter Evening

R. 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, Summer Evening

**SOCC40F 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 at least ten full-course equivalents and permission of instructor.

Session: Winter Day

Staff

**SOCC41S 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 Advanced Seminar in Sociological Theory**

Social 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

J. Drakich

**SOCC43S Advanced Seminar in Research Methods**

Social 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

J. Drakich

**Courses Not Offered in 1984-85****SOCB04Y Political Sociology**

Prerequisite: One course in Sociology

**SOCB11Y Sociology of Science****SOCB14Y Comparative Social Structure**

Prerequisite: One full-course equivalent in Sociology

**SOCB19Y Sociobiology****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)

**SOCC03F Collective Behaviour**

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course.

**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

**SOCC19F Sociology of Knowledge**

Exclusion: (SOCB22)

Prerequisite: SOCB03

**SOCC25F Comparative Race Relations**

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

**SOCC26F Sociology of Urban Growth**

Prerequisite: Two full-course equivalents in Sociology

**SOCC27F Social Class in Canadian Society**

Prerequisite: Two full-course equivalents in Sociology

**SOCC29S Variant Family Forms**

Prerequisite: SOCB08 and SOCB09

## Spanish

**Discipline Representative:** R. Skyrme  
Students enrolling in Spanish are offered a wide range of courses in the Spanish language.

Courses in Humanities, Linguistics, 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 should consult the listing in the Calendar.

Students who wish to study *Spanish Literature* in the original may do so under Supervised Reading.

It is important that students enrolled in Spanish confer with the Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

### Major Programme in Spanish Language

**Supervisor:** R. Skyrme (284-3205)  
Seven full-course equivalents are required as follows:

#### SPAA01Y

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.)

SPAA02H	Language Practice I
SPAB01Y	Intermediate Spanish
SPAB02H	Language Practice II
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
SPAB21F/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.

#### 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; 2 hours oral practice.

Exclusion: Grade 13 Spanish

Corequisite: SPAA02H

Session: Winter Day

K. Gödde and staff

#### SPAA02H Language Practice I

A companion course to SPAA01Y.

Through the gradual introduction of reading material, composition, and sketches, this course forms an essential complement to the predominantly oral approach of SPAA01Y. Two hours per week in tutorial format.

Exclusion: Grade 13 Spanish

Corequisite: SPAA01Y

Session: Winter Day

K. Gödde and staff

#### SPAB01Y Intermediate Spanish

A continuation of SPAA01Y.

The same format and methodology will be followed at a more advanced level. Three hours per week: one hour grammar; two hours oral practice.

Prerequisites: Grade 13 Spanish or SPAA01Y and SPAA02H

Corequisite: SPAB02H

Session: Winter Day

K. Gödde and P. León

#### SPAB02H Language Practice II

A companion course to SPAB01Y.

Through reading material, composition, translation, and play-acting, this course forms an essential complement to the predominantly oral approach of SPAB01Y. Two hours per week in tutorial format.

Prerequisites: Grade 13 Spanish or SPAA01Y and SPAA02H.

Corequisite: SPAB01Y

Session: Winter Day

K. Gödde and P. León

#### 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 our 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

#### SPAB22S History of the Spanish Language II

The Spanish language from the medieval period to the present.

Through analysis of texts from the ninth to the twentieth centuries, this course will focus on inherent changes in and external influences on the development of Castilian from a dialect in the medieval period into one of the major languages of modern times.

Three hours per week in tutorial format.

Corequisite: SPAB12S

Session: Winter Day

R. Skyrme

#### 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.

Corequisite: SPAB01

Session: Winter Day

R. Skyrme

#### SPAC02F-C06F

##### SPAC02F-C10S

#### SPAC01Y 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 to discuss 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 texts and the level of ability of the students.

Specific topics in Peninsular Spanish and Latin American literature, linguistics and culture.

Prerequisite: SPAB01Y

Session: Winter Day

K. Gödde, P. León, R. Skyrme

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
HUMB42Y	The Modernist Adventure

### Courses Not Offered in 1984-85

**JSDB24F** Golden Age of Drama

**SPAB12S** History of the Spanish Language I

Prerequisite: SPAB04

**SPAB21F** Stylistics and Translation

Prerequisite: SPAB01

**SPAC20S** Advanced Conversation

Corequisite: SPAC01Y

## Statistics

Staff member responsible for curriculum: M. Evans (284-3360)

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 and physics.

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 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. The C-Level Courses build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

### **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.

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.

Exclusion: PSYB07, ECOB11, (MATB57)

Prerequisite: STAB52 (MATB52)

Session: Winter Day

### **STAC52S Experimental Design**

The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted randomization schemes. Exclusion: PSYB08

Prerequisite: STAB57

### **STAC67F Regression Analysis**

The statistical analysis of linear models. Transformations. The analysis of covariance Bioassay. Computational procedures.

Exclusion: (MATC67)

Prerequisite: STAB57 (MAT57)

Session: Winter Day.

## **Courses Not Offered in 1984-85**

### **STAC42S Multivariate Analysis**

Corequisite: MATB41

Prerequisite: STAB57 (MATB57)

# 5

# Inter-disciplinary Programmes and Courses

## Interdisciplinary Programs and Courses

While most of the programs offered at Scarborough College fall within a distinct subject area or discipline, the College also offers a number of interdisciplinary programs. These draw upon knowledge from related areas of study or from a broad spectrum of courses linked by a period of time or common theme.

Some of these interdisciplinary programs are highly specialized, such as *Neuroscience*, which combines aspects of biology and psychology relating to the study of the brain, or *Terrain and Environmental Earth Sciences (TEES)*, where the emphasis is on geology but is strongly supported by the physical and chemical sciences.

Other programs which cover broad areas of study include *Women's Studies*, *Canadian Studies*, *The Arts*, or *Medieval Studies*, to name a few. Each offers studies beyond the confines of a single discipline but with a common bond.

Yet another type of interdisciplinary program included in this section is the co-operative or work/study program. Scarborough College offers three such co-op programs, which combine specified studies with terms of related work experience. These are the Co-operative Programme in Administration, the Co-operative Programme in Arts Management, and the Co-operative Programme in International Development.

**Specialist Programme in the Arts**

Supervisor: T. McGee (284-3126)

The Specialist programme in the arts is designed for all those students who would like to acquire a broad foundation of knowledge in Fine Art, Drama and Music, while at the same time developing expertise in one of those areas.

We recognize that much artistic work cuts across the strict boundaries of these disciplines and this programme will allow the student to explore the inter-relationships among the arts. Such exploration will be a stimulating experience to any student in the humanities. The programme is also intended to provide career preparation for students who are interested in such fields as arts administration and public and high school teaching.

The course requirements for a specialist Programme in Arts are as follows:

1 *The Major Component:*

The 6 courses to be chosen as the major component are the same as the major programme in each of the four areas. Consult the individual disciplines under major programmes for the specific courses.

2 *The Minor Component:*

Two of the following programmes must be chosen in areas other than the Major Component: Minor Component in Drama:

DRAB01Y, DRAB03Y, DRAB04Y

Minor Component in Fine Art History:

FARA10F, FARA11S, FARA12F, FARA13S,

plus one FCE at the B-level (supervisor's approval required).

Minor Component in Fine Art Studio:

either FARA90Y or FARA70F and FARA71S, plus any two FCE's in Fine Art Studio

Minor Component in Music:

MUSA01Y, MUSB17H, plus an additional 1.5 FCE's in Music

3 *One FCE from:*

HUMB60F Women Artists in Society  
HUMB70Y Introduction to Cinema  
HUMB80Y Creative Writing: An Introduction  
PSYB50F\* Sensation and Perception  
PSYB51F\* Perceiving and knowing  
PHLB03F Philosophy and Art

4 HUMC10H in ARTS to be taken after 10 courses.

NOTE: (\*require a prerequisite course)

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 in Canadian Studies**

Supervisor: L.J. Abray (284-3141)

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  
FARB60Y The Arts in Canada: 1670 to 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

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. 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*

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; check the main calendar entry for the course. 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:

GRB01Y\* Geography of Resources

GRC34F\* Landscape Interpretation

Ecosystems studies featuring Canadian data and field trips:

OB12Y\* Fundamentals of Ecology

OB15Y\* Aquatic Systems

OB47Y\* Plant Ecology

OC14F/S\* Ecological Methods

*Group 2: Cultural and Historical Roots*

Native peoples before, or apart from, European contact:

ANTB21Y\* North American Background to Canadian Native Peoples

UAA03Y Ice Ages and Human Ecology

NTC28F/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  
MUSB16F/S\* Canadian Music

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  
HISC41F/S\* Old Huronia  
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\* Urban 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

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  
 POLB53F/S Public Policies in Canada  
 POLB54F/S Intergovernmental Relations  
 POLB60Y Introduction to Public Administration and Policy Making  
 POLB81F/S\* Canadian Foreign Policy  
 POLC51F/S\* Topics in Canadian Government  
 POLC61F/S\* Policy Development  
 POLC71Y\* Canadian Political Ideas

#### Group 4: Arts and Letters

ENGB07Y Canadian Literature in English  
 ENGB25F/S The Canadian Short Story  
 ENGB26Y\* Canadian Poetry in English  
 ENGB27Y\* Canadian Fiction in English  
 ENGB28F/S\* Drama in English Canada: 1920-1970

FARB60Y The Arts in Canada: 1670-1960  
 FARB61Y The Canadian Landscape: 1850-1950

FREB16B\* Language Practice  
 FREB36F/S\* French Canadian Novel to 1945  
 FREB37F/S\* French Canadian Novel since 1945

FREB38F/S\* The Theatre of French Canada  
 FREB43F/S\* French Language in Canada  
 FREC39F/S\* French Canadian Poetry

In addition, supervised reading courses are offered at the C-level in many disciplines. These may be applied toward degree requirements if they are concerned with appropriate Canadian subjects.

#### College Programme in Canadian Studies

Supervisor: L. J. Abray (284-3141)

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. An asterisk indicates a course for which there is a prerequisite; check the main calendar entry for the course. Not all B-level and C-level courses are offered each year.

#### Group A (ENGB13F/S\*)

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  
 MUSB16F/S\* Canadian Music

#### Group B ANTB16S

ANTB21Y\* Cultures of Modern Canada  
 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  
 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  
 POLB53F/S Public Policies in Canada  
 POLB54F/S\* Intergovernmental Relations  
 POLB60Y Introduction to Public Administration and Policy Making

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/S\* Public Decision Making

ECOB37F/S\* Law and Economics

ECOB45F/S\* Poverty and Income Distribution  
 ECOB62F/S\* International Economics: Trade Theory

ECOB81Y\* North American Economic History  
 Income Tax

COMC15Y\* Geography of Resources  
 GGRB01Y\* Urban Geography

GGRB05Y\* Rural Geography

GGRB17Y\* Urban Residential Geography

GGRC04F/S\* Settlement of Upper Canada

GGRC14F/S\*) Development and Planning of Metropolitan Regions

GGRC31F/S\* Landscape Interpretation

GGRC34F\* Ice Ages and Human Ecology

QUAA03Y Fundamentals of Ecology

IOB12Y\* Aquatic Systems

IOB15Y\* Biogeography

IOB39B\*) Plant Ecology

IOB47Y\* Ecological Methods

IOB14F/S\*

should be noted that there are supervised

leading courses at the C-level in many disci-

lines. If these are concerned with Canadian

material, they may be included in the above list-

ing of courses. However they normally require

several prerequisites and approval from the

discipline representative before they can be

undertaken.

## Cognitive Science

Supervisor: A. Gopnik (284-3385)

Cognitive Science is the study of knowledge--how human beings, other animals, and even machines acquire knowledge, organize and store that knowledge, and use that particular knowledge to solve problems. Cognitive scientists are particularly interested in the way we use symbolic systems, such as natural or computer languages, drawing, or mathematical notation to organize our knowledge of the world. Cognitive science considers questions like "Are we born with some knowledge already in place?" "How does our experience of the world allow us to develop knowledge?" "How does the knowledge we already have affect our experience of the world?" "Is knowledge stored as visual images, words, or abstract propositions? How do we decide which pieces of information are relevant to a specific problem? How do we master and store the complicated system of rules that allows us to use language? How do language and culture affect our understanding of the world? How is the knowledge stored in a computer like and unlike the knowledge stored in our heads?"

Researchers in philosophy and psychology, linguistics, computer science and anthropology all use different methods to investigate these questions and have all provided part of the answers. The cognitive science programmes (Specialist and Major) include courses from all these disciplines--from the humanities and the sciences at both the theoretical and the practical level.

The Specialist Programme requires 12 courses; the Major Programme requires 7 courses.

#### Specialist Programme in Cognitive Science

Supervisor: A. Gopnik (284-3385)

\*Students should check these courses for prerequisites/corequisites/exclusions.

#### Required Courses

6.5 full course equivalents from the following:

- 1 PSYA01Y Introduction to Psychology
- 2 LINA01Y General Linguistics
- 3 PHLA01Y Fundamental Questions of Philosophy
- 4 CSCA56H Computer Programming  
or  
CSCA58H Introduction to Programming
- 5 PSYB07H Data Analysis in Psychology
- 6 PSYB51H\* Perceiving and Knowing
- 7 PSYB57H\* Memory and Cognition
- 8 JLPB55H\* Psycholinguistics
- 9 JMPB50H Symbolic Logic I
- 10 PHLB80H Philosophy of Language  
or  
PHLB81H Theories of Mind

**Optional Courses** - 2 full course equivalents chosen from the following:

*Psychology*

- 1 PSYB01H Introduction to Psychological Research
- 2 PSYB08H\* Experimental Design in Psychology
- 3 PSYB10H\* Introduction to Social Psychology
- 4 PSYB20H\* Developmental Psychology
- 5 PSYB34H\* Psychometric Methods
- 6 PSYB50H\* Sensation and Perception
- 7 PSYB53H Microcomputers in Experimental Psychology
- 8 PSYB65H\* Biological Foundations of Behaviour
- 9 PSYC53H\* Current Topics in Human Information Processing
- 10 PSYC54H\* Art and Psychology of Perception
- 11 PSYC85H\* History of Psychology

*Linguistics*

1.5 full course equivalents chosen from the following:

- 1 LINB02H\* Phonology
- 2 LINB09H\* Phonetics
- 3 LINB11Y\* Syntax
- 4 LINB12H\* Semantics
- 5 JLPB55H\* Disorders of Speech and Language
- 6 JLPB24H\* Developmental Psycholinguistics

*Philosophy*

1 full course equivalent chosen from the following:

- 1 PHLB14H\* Philosophy of Social Science
- 2 PHLB20H Belief, Knowledge and Truth
- 3 PHLB53H The Art of Thinking
- 4 PHLB70H\* Philosophy of Science
- 5 JMP51H Symbolic Logic II

*Cognate Courses*

1 full course equivalent chosen from the following:

- 1 ANTB30Y\* Language and Culture
- 2 ANTC17Y\* Theory and Methodology in Social/Cultural Anthropology
- 3 ANTC02H\* Systems of Thought
- 4 CSCA66H\* Programming Applications or  
CSCA68H\* Problem Solving with Computers
- 5 CSCB58H\* Computer Organization

**Major Programme in Cognitive Science**

Supervisor: A. Gopnik (284-3385)

\*Students should check these courses for pre-requisites/corequisites/exclusions.

*Required Courses*

3.5 full course equivalents

- 1 PSYA01Y Introduction to Psychology
- 2 LINA01Y General Linguistics
- 3 PSYB51H\* Perceiving and Knowing
- 4 PSYB57H\* Memory and Cognition
- 5 JLPB55H\* Psycholinguistics

**Optional Courses** - 1.5 full course equivalents chosen from the following

*Psychology*

- 1 PSYB01H Introduction to Psychological Research
- 2 PSYB07H Data Analysis in Psychology
- 3 PSYB10H\* Introduction to Social Psychology
- 4 PSYB20H\* Developmental Psychology
- 5 PSYB34H\* Psychometric Methods
- 6 PSYB50H\* Sensation and Perception
- 7 PSYB53H Microcomputers in Experimental Psychology
- 8 PSYC54H\* Art and the Psychology of Perception
- 9 PSYC85H\* History of Psychology

*Linguistics*

1 full course equivalent chosen from the following:

- 1 LINB02H\* Phonology
- 2 LINB09H\* Phonetics
- 3 LINB11Y\* Syntax
- 4 LINB12H\* Semantics
- 5 JLPB24H\* Developmental Psycholinguistics
- 6 JLPB55H\* Disorders of Speech and Language

*Cognate Courses*

1 full course equivalent chosen from the following:

- 1 PHLB70H\* Philosophy of Science
- 2 PHLB80H Philosophy of Language
- 3 PHLB81H Theories of Mind
- 4 JMPB50H Symbolic Logic I
- 5 JMP51H\* Symbolic Logic II
- 6 CSCA56H Computer Programming
- 7 CSCA66H\* Programming Applications

## Co-operative Programme in Administration

**Director of Co-operative Programmes:**

A.N. Sheps

**Assistant to the Director:** Joan Bunyan

**Co-ordinator:** Beverley Abramson

**Supervisor:** A.N. Sheps

The Co-operative Programme in Administration is

a work-study programme which combines academic

studies in commerce, economics, political

science, history, the behavioural and social sci-

ences and statistics with work placements in

public and private enterprises. The programme

alternates study terms with work terms and typi-

cally requires five years to complete. Administra-

tion students learn through both studies and

practical experience about

policy and economic analysis

urban, regional and social planning

governmental decision-making

the allocation of resources in government and

business

the management of policies and programmes

dealing with complex social, economic, politi-

cal and business problems

The Programme prepares students for per-

manent employment in government, regulatory

agencies, crown corporations and business

enterprises, or for further studies in the social

sciences, law, public or business administration,

planning, or social work. Graduates receive a

four-year B.A. with a Specialist certification in

Administration.

**Admission to the Programme**

From Grade 13 or equivalent: Students must

apply to and be accepted by the Scarborough

campus of the University of Toronto and indicate

their interest in the Administration Programme

of the University of Toronto Supplementary

application. They then are asked to make a

special application directly to the Office of

Co-operative Programmes.

An appropriate grade 13 curriculum would in-

clude at least one course from Functions and

Relations, or Algebra or Calculus, and at least

three courses from English, History and Humani-

ties. Social Sciences courses are not required.

From first-year university: Students ac-

cepted by the University and College may apply

whether or not they have completed any part of

the Programme's curriculum. The timing of their

first work placement will depend upon the par-

ticular university courses already completed.

Admissions are granted on the basis of appli-

cants' interest and potential ability in Administra-

tion, accomplishment and grades in both verbal

and quantitative studies, and a letter of reference from a high school teacher or university instruc-

tor. Interviews may be required. Enrollment is limited and only a small number of applicants

can be accepted each year. Admissions are con-

sidered annually in May and early June.

**Fees.** Every student in a co-operative pro-

gramme is required to pay an additional fee as

established by the University.

### Specialist (Co-operative) Programme in Administration

This Programme requires eight four-month terms of study, four work terms and two "off" terms over

a five year period. Students begin with a full

academic year of study, then alternate study and

work terms, and conclude with a final eight-

months of study. Exceptionally, with the agree-

ment of the Director and Co-ordinator, a fifth

work-term may be allowed. Work terms are ar-

ranged and scheduled by the office of Co-

operative Programmes but must be won by

students in competition with co-operative stu-

dents from this and other universities. During

work terms students serve in the administration of

government departments, crown corporations,

public agencies and business enterprises.

Performance on each work term is evaluated

by both the employer and Co-ordinator. Also stu-

dents must submit to the Supervisor for evalua-

tion a report for each work term which integrates

knowledge gained during the placement with

academic study already completed.

To maintain standing in the Programme, to be

eligible for a work term placement, and to receive

specialist certification upon graduation, a stu-

dent must

- complete at least four full-course equivalents

- each year

- maintain a cumulative grade point average of

- 2.5

- receive a satisfactory evaluation for work term

- performance and work term reports

**Eligibility for work placements.** To compete for

a work placement a student must be in good

standing in the Programme and must have com-

pleted

- for the first work term: seven full-course

- equivalents, including COMA01, ECOA01,

- one of HISB02 or HISB03 or HISB04,

- POLB50.

- for the second work term: nine full-course

- equivalents including the above courses and

- COMB01, JCSB27, ECOB03, POLB60

- for the third work term: eleven full-course equivalents including the above courses and a statistics half-course from section A, IV, below.
- for the fourth work term: thirteen full-course equivalents including the above courses.

In the first two years of study all students follow a common core of studies (section A below). Beginning in the third year, students choose an advanced option (Section B, below) from the following fields of administrative studies: Policy Analysis, Economic Policy, Evaluation of Social Issues, Urban and Regional Policy Analysis, and Programme Management. The choice should be made on the basis of the student's career goals and personal interests and skills.

Each student's curriculum requires the annual approval of the Supervisor. Advanced courses in Commerce, Computer Science, Economics, Geography, Mathematics, and Psychology have prerequisites so students must plan their studies with care.

The first two years in the Programme should consist of:

**First Year:** (Winter Session) COMA01, ECOA01, one of HISB02 or HISB03 or HISB04, JCSB27, POLB50

**Second Year:** (Summer and Winter Sessions) COMB01, ECOB03 at least two elective full-course equivalents, and a work term. Students interested in the Programme Management or Economic Policy advanced options, or in careers in commerce or economics, are advised to take MATA27 (Calculus) as early in their studies as possible. Such students may delay JCSB27 no later than the second year. A Statistics course ECOB32F/S or ECOB35F/S, and a Computer Science course should also be included as early as possible in a student's studies.

The curriculum requirements are as follows:

**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/S Social Psychology Laboratory  
SOCB04Y Political Sociology  
SOCC13F/S Industrial Sociology  
SOCC07F/S 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 Introduction to Public Administration and Policy-Making

one of:

ECOB32F/S Economics of the Public Sector: Expenditures

ECOB35F/S 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

GGRB31F/S Data Analysis in Geography

STAB52F/S Probability and Statistics I

STAB57F/S Probability and Statistics II

PSYB07F/S Data Analysis in Psychology

SOCB06F/S Social Statistics

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

**i Policy Analysis** (four full-course equivalents)

**a** two full-course equivalents from:

POLB53F/S Public Policies in Canada  
POLB54F/S Intergovernmental Relations  
POLC60F/S Administrative Politics  
POLC61F/S Policy Development  
POLC62F/S Organized Interests and the State

**b** one full-course equivalent from:

POLB51F/S Government and Politics in Ontario

POLB85F/S Comparative Politics of Industrial Countries

POLC51F/S Topics in Canadian Government

POLC65F/S Topics in Political Leadership

**c** one full-course equivalent from:

ECOB07Y Macroeconomic Theory and Policy

ECOB12F/S Quantitative Methods in Economics: Applications

ECOB31F/S Economics of the Public Sector: Taxation

ECOB35F/S Public Decision Making

ECOB37F/S Law and Economics

ECOB41F/S Industrial Organization

JGEB27F/S Location and Spatial Development

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

Required:

ECOB07Y Macroeconomic Theory and Policy

ECOB12F/S Quantitative Methods in Economics: Applications

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

ECOB31F/S Economics of the Public Sector: Taxation

ECOB32F/S Economics of the Public Sector: Expenditures

ECOB41F/S Industrial Organization

ECOC08F/S Econometrics

JCEC40F/S Public Policy Towards Business

**c** one full-course equivalent from:

POLB53F/S Public Policies in Canada

POLB54F/S Intergovernmental Relations

POLC60F/S Administrative Politics

POLC61F/S Policy Development

POLC62F/S Organized Interests and the State

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

Required:

SOCB01Y Methods in Social Research

SOCB05Y Urban Sociology

SOCB06F/S Applied Sociology

PSYB08F/S Experimental Design in Psychology

**b** one half full-course equivalent from:

COMC04F/S Principles of Marketing

COMC05F/S Introduction to Marketing Management

SOCB23Y Population

SOCC07F/S Sociology of Occupations and Professions

SOCC11F/S Sociology of Law and Law Enforcement

SOCC13F/S Industrial Sociology

**c** one full-course equivalent from:

ECOB37F/S Law and Economics

POLB53F/S Public Policies in Canada

POLB54F/S Intergovernmental Relations

POLC61F/S Policy Development

POLC62F/S Organized Interests and the State

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

**a** Required:

GGRB04Y The Nature of Human Geography

GGRB05Y Urban Geography

JGEB27F/S Location and Spatial Development

GGRB28F/S Geography and Development

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

ECOB47F/S Urban Economics

GGRC04F/S Urban Residential Geography

GGRC18F/S Urban Transportation Policy Analysis

GGRC31F/S Development and Planning of Metropolitan Regions

POLB88Y Urban Politics

POLC60F/S Administrative Politics

POLC61F/S Policy Development

SOCC26F/S Sociology of Urban Growth

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

**a** two full-course equivalents from:

COMC04F/S Principles of Marketing

COMC05F/S Introduction to Marketing Management

JCEC02Y Corporation Finance

JCEB72F/S Analysis for Decision Making I

JCEB73F/S Analysis for Decision Making II

**b** Required: one of:

ECOB12F/S Quantitative Methods in Economics: Applications

PSYB08F/S Experimental Design in Psychology

**c** one half full-course equivalent from:

POLC60F/S Administrative Politics

POLC61F/S Policy Development

POLC62F/S Organized Interests and the State

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

CSCA56F/S Computer Programming

CSCA58F/S Introduction to Computing

CSCA66F/S Programming Applications

CSCA68F/S Problem Solving with Computers

CSCB28F/S Programming Techniques for Data Processing

ECOB41F/S Industrial Organization

JCEC40F/S Public Policy Towards Business

SOCC07F/S Sociology of Occupations and Professions

SOCC13F/S Industrial Sociology

including at least one half-course from Computer Science.



## Co-operative Programme in Arts Administration

*Director of Co-operative Programmes:*

A.N. Sheps

*Assistant to the Director:* Joan Bunyan

*Co-ordinator:*

*Supervisor:* A.N. Sheps

The Co-operative Programme in Arts Administration is designed for students with an interest in both the arts and business or management. The programme combines academic study with practical work experience and typically requires up to five years to complete. Work placements are arranged with the management of galleries, museums, performing groups, arts service organizations and government cultural agencies. The curriculum integrates a major and a minor in Drama Fine Arts, or Music with studies in Commerce, Economics, Political Science, Sociology and specially-designed courses in arts administration and policy. Arts administration students learn from both courses and practical experience about

- the economic and financial problems of the arts
- government decision making and funding
- policy formulation and implementation, especially with reference to the arts
- the management and marketing of complex arts policies, programmes and enterprises.

The Programme prepares students with a knowledge of both the arts and management and finance for permanent employment as arts administrators, or for further studies in Business Administration, Museum Studies, Drama, Music or Art History.

Graduates receive a four-year B.A. with a specialist certification in Arts Administration.

### Admission to the Programme

- a. From Grade 13 or equivalent: Students must apply to and be accepted by the Scarborough College and the University of Toronto. They must also inform the Office of Co-operative Programmes, Scarborough Campus, that they have applied to the University and College and wish to be considered for the Programme. They will then be asked to make a special application directly to the Office of Co-operative Programmes.
- b. From first-year University: Students accepted by the University and College may apply whether or not they have completed any part of the first year curriculum. The timing of their first work placement will depend upon the particular university courses already completed.

Admissions are granted on the basis of applicants' academic performance, background in

one or more of the arts, interest and potential ability in Arts Administration, and a letter of reference from a high school teacher or university instructor. Interviews may be required. Enrollment is limited and only a small number of applicants can be accepted each year. Admissions are considered annually in May.

**Fees.** Every student in a co-operative programme is required to pay an additional fee as established by the University.

### The Specialist (Co-operative) Programme in Arts Administration

requires twenty courses (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the Director and Co-ordinator, a third work-term may be allowed. Students are eligible for their first work term after their first two years of study. Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the position. The places of work will vary widely according to a student's needs and abilities but generally students will serve in the administration or management of galleries, museums, concert halls, theatres, broadcasting organizations, government, private or voluntary cultural agencies or offices at the municipal, provincial or federal levels, performing groups, studios and studio co-operatives, arts service organizations, university cultural projects, and public relations offices of corporations which support the arts.

Performance on work terms will be evaluated by both employer and Co-ordinator. Students must also submit to the Supervisor for evaluation a report for each work term which integrates knowledge gained during the placement with academic study already completed.

To maintain standing in the Programme, to be eligible for work term placement, and to receive specialist certification upon graduation, a student must

- maintain a cumulative grade point average of 2.5
- receive a satisfactory evaluation for work term performance and work term reports
- complete a full-time course of studies during study terms

### Eligibility for work placements.

To compete for work-term placement a student must be in good standing in the Programme and must have completed at least ten full-course equivalents including

- three full-course equivalents from the major field
- one full-course equivalent from the minor field
- COMA01Y (Financial Accounting)
- ECOA01Y (Introduction to Economics)
- JCSB27Y (Organizational Behaviour)
- and
- HUMB90Y (Introduction to Arts Administration)

Normally, students return to their studies after each work term. They register in HUMC30F/S (Senior Seminar on Arts Administration) after the completion of both work terms.

All students must complete a major field (six full-course equivalents) in one of Drama, Fine Art History, Fine Art Studio, or Music (Section A, below), a minor field (three full-course equivalents), different from the major, in one of Drama, Fine Art History, Fine Art Studio, or Music (Section B, below), and the Administrative Field (seven full-course equivalents, Section C, below). They must select their major and minor fields upon registering in the Programme.

The first year of study should consist of two courses from the major field, one course from the minor field, COMA01Y and ECOA01Y.

It is strongly recommended that students study French or a foreign language.

Each student's curriculum requires the annual approval of the Supervisor. Careful attention should be paid to the pre-requisites for various advanced courses in the Arts Fields.

### The course requirements are as follows:

Twenty full-course equivalents, sixteen of which must be selected as follows: six full-course equivalents from Section A, three full-course equivalents from Section B, seven full-course equivalents from Section C.

#### A Major Field

Six full-course equivalents from one of the following fields:

##### I Drama

Required

- DRAB01Y An Introduction to the Practical Elements of Theatre
- DRAB03Y The History of Theatre I
- DRAB04Y The History of Theatre II
- DRAB06Y Canadian Drama

or

- ENGB11Y Varieties of Drama

and

One full-course equivalent from the courses listed under the Major Programme in Drama, Group A (page 82)

and

one full-course equivalent from the courses listed under the Major Programme in Drama, Group B (page 83)

#### II Fine Art History

Required

Five full-course equivalents in art history, one from each of the following areas:

Classical

Fine Art History

Medieval

Renaissance

Baroque

Modern (1750 to the present)

and

One additional full-course equivalent in art history at the C-Level

See pages 100-103 for Fine Art History courses

#### III Fine Art Studio

Required

FARA90Y Foundation Studies in Studio

FARB70F/S Introductory Drawing

FARB72F/S Introduction to Printmaking

FARB74F/S Intermediate Drawing

FARB75Y Introduction to Painting

and

2.5 additional full course equivalents in Fine Art Studio of which one must be at C-level.

(See pages 103-105)

#### IV Music

MUSA01Y Introduction to Music

MUSB17H Materials of Music I

MUSB24S Materials of Music II

and

2 full course equivalents from:

MUSB01F/S Music of the Twentieth Century

MUSB02F/S Music of the Classical Period

MUSB04F/S Music of the Classic Period

MUSB05F/S Music of the Baroque Era

MUSB06F/S Music of the Romantic Period

and

2.0 additional full course equivalents in Music.

#### B Minor Field

Three full-course equivalents from one of the following fields which must be different from the major field.

##### I Drama

Required

Three of:

DRAB01Y An Introduction to the Practical Elements of Theatre

DRAB03Y The History of Theatre I

DRAB04Y The History of Theatre II

DRAB06Y Canadian Drama

ENGB11Y Varieties of Drama

## Co-operative Programme in International Development Studies

### II Fine Art History

#### Required

FARA10F	Ancient Art and Architecture
FARA11S	Medieval Art
FARA12F	Renaissance and Baroque Art
FARA13S	Modern Art: 1750 to the Present and

1 additional full course equivalent in Fine Art History at the B-level. (see pages 100-103)

### III Fine Art Studio

#### Required

FARA90Y	Foundation Studies in Studio or
FARA70F	Two and Three Dimensional Design and
FARA71S	Colour plus

2 additional full course equivalents in Fine Art Studio. (see pages 103-105)

### IV Music

#### Required

MUSA01Y	Introduction to Music
MUSB17H	Materials of Music I
MUSB24S	Materials of Music II plus

1.0 additional full course equivalents in Music. (see pages 154-155)

### C Administrative Field of Study

#### Required

COMA01Y	Financial Accounting
EOA01Y	Introduction to Economics
JCSB27Y	Organizational Behaviour
EOB35S	Public Decision Making
POLB60Y	Public Administration
HUMB90Y	Introduction to Arts Policy
HUMC30F/S	Senior Seminar in Arts Policy plus

1 full course equivalent from ECOB03, ECOB07, COM, JCE, POLB53Y (Public Policies in Canada), or SOCB15Y (Sociology of Mass Media and Communications).

### Director of Co-operative Programmes:

A.N. Sheps

Assistant to the Director: Joan Bunyan  
Co-ordinator:

Supervisor: R.B. Bryan

The Co-operative Programme in International Development is intended for students with an interest in international development, in geography, ecology and economics, and in the relations of Canada with the Third World. The Programme combines academic study in the social and ecological sciences with practical work experience in a Third World country, and typically requires up to five years to complete. An eight-month work placement, usually with a Canadian-sponsored development project or agency abroad, is a central part of the programme. The distinctive feature of the curriculum is the integration of political, economic and social development studies with courses in ecological and physical resource management. International Development Studies students learn through both studies and practical experience about

- development economics and social and political change in the Third World
- international relations
- environmental sciences, especially the management of natural resources in developing countries
- the geography, culture, language and history of the area in which they are interested.

The Programme prepares students with knowledge and experience of both resource management and developmental economics, politics and administration for permanent employment with Canadian and international governmental and non-governmental development agencies and projects. It also provides background for further studies in environmental geography, economics and political science.

Graduates receive – four-year B.A. or B.Sc. with specialist certification in International Development Studies.

### Admission to the Programme

**a.** From Grade 13 or equivalent: Students must apply to and be accepted by Scarborough College and the University of Toronto. They must also inform the Office of Co-operative Programmes, Scarborough Campus, University of Toronto, that they have applied to the University and College and wish to be considered for the Programme. They will then be asked to make a special application directly to the Office of Co-operative Programmes.

**b.** From first-year university: Students accepted by the University and College may apply whether or not they have completed any part of the first year curriculum. The timing of their first work placement will depend upon the particular university courses they have already completed.

Admissions are granted on the basis of applicants' academic performance, background in relevant subjects, quantitative and verbal skills, interest and potential ability in international development studies and work, and a letter of reference from a high school teacher or university instructor. Interviews may be required. Enrolment is limited and only a small number of applicants can be accepted each year. Admissions are considered annually in May.

Every student in a co-operative programme is required to pay an additional fee as established by the University.

### The Specialist (Co-operative) Programme in International Development Studies

This programme requires twenty courses (four years) of study and a work term of approximately eight months duration. The work term will normally begin no sooner than the end of the third year and no later than January of the fourth year of the Programme. Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the positions. In some cases students may be responsible for financing part of the travel expenses associated with placements. The location of placements will vary according to a student's disciplinary and regional preferences and abilities. Generally, students will serve with the administration or management of research, development and aid projects of Canadian universities, scholars, agencies and organizations in a developing country or, in some cases, with the Canadian offices of government or non-government development agencies.

The objective of the work placement is to provide students with experience and appreciation of the practical difficulties of development work and the flexibility required in the application of theoretical concepts. Before the work term students must, in consultation with the Supervisor of Studies develop a clearly defined intellectual or theoretical goal for the work placement. Performance on work terms will be evaluated by the employer, the Co-ordinator and the Supervisor. After the work term students must submit to the Supervisor, for evaluation, a work term report which will take the form of a critical analysis,

dissertation or research report which integrates knowledge and experience gained on the placement with academic studies already completed.

### Eligibility for work placements

To compete for work placements a student must

- be in good standing in the Programme
- have completed at least fifteen full-course equivalents

After the work term students return to their studies and enroll in IDSC01Y (International Development Studies: Advanced Seminar) and such other courses as are necessary to complete their degrees.

To maintain standing in the Programme and to receive specialist certification upon graduation, a student must

- maintain a cumulative grade point average of 2.5
- receive satisfactory evaluations for work term performance and the work term report
- complete a full-time course of study during study terms

All students must complete

- a common core programme (at least nine full-course equivalents) in resource management sciences and development economics and politics (Section A, below)
- an advanced option (at least three full-course equivalents) in either political economy or ecological management (Section B, below)
- a regional language and culture option (Section C, below)
- IDSC01Y, an advanced seminar in which they report on their work placement experience, and other elective courses (Section D, below)

In the first two years of study students must complete as much of the common core programme and of language studies as possible. The core programme contains two courses specially designed for International Development Studies: IDSB01Y: International Development Studies, Political Economy: (page 203) and IDSB02Y: International Development Studies, Physical and Ecological and Resource Management (page 203). Students must choose their regional and language option (Section C) no later than year 2 and their advanced option (Section B), no later than the beginning of year 3. In choosing courses students must pay careful attention to the prerequisites for higher level courses. Some courses in the Programme are offered on other campuses of the University. Each student's curriculum requires the annual approval of the Supervisor.

The curriculum requirements are as follows:  
Twenty full-course equivalents including:

**A Core Programme:** at least nine full-course equivalents from the following

I Required:

IDSBO1Y International Development Studies:  
Political Economy

IDSBO2Y International Development Studies:  
Physical and Ecological Resource  
Management

ECOA01Y Introduction to Economics

POLB80Y International Relations

POLB91Y Politics of the Third World

BIOA03Y Introductory Biology

FOR217F/S Resource Ecology

FOR252F/S Principles of Hydrology

GGRB29Y Soil Management and Conservation  
and

II One of:

ECOB66F/S Economic Development

or

GGRB28F/S Geography and Development  
and

III One of:

ECOB11F/S Quantitative Methods in Economics  
or

GGRB31F/S *Data Analysis in Geography* or

STAB52F/S Probability and Statistics 1

*Note:* Students planning to enter the Political  
Economy advanced option should choose, from II  
above, ECOB66F/S, and, from III above,  
ECOB11F/S. ECOB03Y is a prerequisite for  
ECOB66F/S. It is required in the Political Economy  
option and should be taken within the first two  
years.

**B Advanced Options:** at least three full-course  
equivalents chosen from either I or II, below

I Political Economy

ECOB03Y Price Theory

and at least two full-course equivalents from

ECOB07Y Macroeconomic Theory and Policy

ECOB67F/S Development Policy

POLC93F/S Selected Topics on Developing  
Areas

POLC94F/S Selected Topics on Developing  
Areas

SOCC17F/S Social Change in the Third World

ANTB19F/S Economic Anthropology

GGRB01Y Geography of Resources

II Ecological Management

At least three full-course equivalents chosen from

\*FOR455S Advanced Forest Ecology

\*FOR456H Forest Soils II

GGRB03Y Climatology

GGRB24Y Environmental Pollution

GGRC28Y The Hydrology of Surface and Sub-  
surface Waters

ANTB01Y Ecological Anthropology

**C Regional and Language Options:** At least two  
full-course equivalents chosen from either I or II  
below

I Latin America

a at least one full-course equivalent from

HUMB14Y Topics in Latin American Culture  
and Literature

ANTB03F/S The Americas: an Anthropologi-  
cal Perspective

ANTB07F/S Comparative Slavery

ANT443Y Social Anthropology of Latin

America and the Caribbean

\*GGR249H Contemporary Latin America

\*GGR244H Historical Geography of Latin  
America

\*HIS291Y Latin America: the Colonial  
Period

\*HIS292Y Latin America: The National  
Period

\*HIS394Y Protest and Change in the  
Caribbean

\*HIS490H Topics in Modern Latin Ameri-  
can Social History

\*POL305Y Politics and Society in Latin  
America

\*POL442H Topics in Latin American Politics  
I and II

\*SOC323Y Social Change in Latin America

\*PRT280H Aspects of Brazilian Culture

and

b at least one full-course equivalent from

SPAA01Y Introductory Spanish

SPAB01Y Intermediate Spanish

SPAB02H Language Practice II

\*PRT100Y Introductory Portuguese

PRT222Y Language Practice

II Africa

a at least one full-course equivalent from

GGRC33F/S Africa: Perspectives in  
Geography

POLB92Y Politics and Society in  
Independent Africa

ANTB05Y Social Anthropological Study of  
Africa

\*ANT345Y Social Anthropology of West  
Africa

\*GGR345H Africa: Geographical Aspects of  
Economic Change

\*POL430Y Topics in African Politics

\*HIS395Y Black Africa in the 20th Century

\*HIS495Y Black Africa: Social and  
Economic History

and

b at least one full-course equivalent from

\*NEW280Y Introductory Swahili

\*NEW380Y Intermediate Swahili

FREA06Y Introductory French

FREB07S Intermediate Conversation I

FREB09Y Practical French I

FREB17S Intermediate Conversation II

FREB19Y Practical French II

**D Required:**

IDSC01Y International Development Studies:  
Advanced Seminar

and

any four other full-course equivalents which  
satisfy the degree requirements.

In addition to the courses listed above, the  
following courses are recommended:

COMA01Y Financial Accounting

GGRC20F Rural Planning and Development

GGRC29S Problems in Modern Agricultural  
Land Use

FOR466Y Wildlife Ecology and Management

JPE400Y The Political Economy of Inter-  
national Development

\*GGR393F Methods of Environmental Impact  
Assessment

\*GGR416S Field Studies in Environmental  
Assessment

\*GGR355H Environmental Change

\*GGR356H Energy-Environment Interaction

\*GGR334H Water Resource Management

**IDSBO1Y International Development Studies:**

Political Economy

Introduces students to major development prob-  
lems, the principal social, economic and political  
factors that condition these and the impact on  
them of various development strategies pursued  
in a sample of third-world countries. The course  
is composed of five sections: the evolution and  
meaning of the term "third world"; the evolution of  
the socio-economic situation in less-developed  
countries; absolute poverty, inequality, oppres-  
sion and socio-cultural strain; conservative, refor-  
mative and revolutionary development strate-  
gies; recent developments in thought about the  
third world including advocacy of "basic needs"  
strategy and a New International Economic Order.  
Session: Winter Day  
A. Berry, K.R. Sandbrook

**IDSBO2Y International Development Studies:**

Physical and Ecological Resource Management  
Introduces students to the physical and ecologi-  
cal bases of natural resource management, and  
their role in constraining development in third  
world countries. The course includes study of:  
basic climatic processes, climatic differentiation;  
the hydrologic cycle and its role in water re-  
source management; principles of soil develop-  
ment and nutrient cycling; processes of plant  
colonization and community development. It will  
include case studies of natural resource manage-  
ment and mis-management in developing coun-  
tries. Students will be encouraged to develop  
specific regional interests in course tutorials.  
Session: Winter Day  
R.B. Bryan, A. Davis

**IDSC01Y International Development Studies:**

Advanced Seminar (not offered)

## Development Studies

### College Programme in Development Studies

Supervisor: R.B. Bryan (284-3149)

The Dimensions and diversity of problems facing developing countries have involved many academic disciplines. At the Scarborough Campus the College Programme in Development Studies is based primarily on existing courses in the Division of Social Sciences taught by faculty members actively involved in development problems. In organizing the programme an attempt has been made to provide a core of fundamental knowledge which can be applied in first world countries. Students may then select additional courses from a broad range of relevant courses at the Scarborough and St. George Campuses which will allow more specialized thematic or regional concentration. Students enrolling in this programme are strongly advised to combine it with a major programme in a related discipline. The programme is designed both for students with a broad general interest in developing countries or those with some interest in pursuing a course in development studies. Students in the latter category should seriously consider the more intensive Co-operative Programme in International Development Studies.

#### Students must complete:

- IDSB01Y Development Studies: Political Economy
- IDSB02Y Development Studies: Physical and Ecological Resource Management

They must also complete at least *three* full-course equivalents from the following:  
(Courses marked with an asterisk have prerequisites.)

- \*ECOB66F Economic Development
- \*ECOB67S Development Policy
- \*GGRB28S Geography and Development
- POLB80Y International Relations
- POLB91Y Politics of the Third World
- \*SOCC17F Social Change in the Third World
- \*GGRB29Y Soil Management and Conservation
- \*ANTB19F Economic Anthropology

An additional *three* full-course equivalents should be selected from the following:  
(Courses not selected as the three core courses in the group above may be included.)

- \*ANTB01Y Ecological Anthropology
- \*ANTB03F The Americas: an Anthropological Perspective
- \*ANTB05S Social Anthropological Study of Africa
- \*ANTB07S Comparative Slavery
- BIOA03Y Introductory Biology

- \*ECOAO1Y Introduction to Economics
- \*ECOB03Y Price Theory
- \*ECOB07Y Macroeconomic Theory and Policy
- \*ECOB11F Quantitative Methods in Economics
- GGRB01Y Geography of Resources
- \*GGRB03Y Climatology
- GGRB24Y Environmental Pollution
- \*GGRB31S Analytical Methods in Geography
- \*GGRC28Y The Hydrology of Surface and Sub-surface Waters
- \*GGRC33F Africa: Perspectives in Geography and Development
- HUMB14Y Topics in Latin American Culture and Literature
- POLB92Y Politics and Society in Independent Africa
- POLC93F Selected Topics on Developing Areas
- POLC94S Selected Topics on Developing Areas

Students should also be aware of the following courses at the St. George Campus

- FOR217F Resource Ecology
- FOR252F Principles of Hydrology
- FOR455S Advanced Forest Ecology
- FOR456H Forest Soils II

#### Notes:

The College Programme in Development Studies requires a minimum of *eight* full-course equivalents from the courses listed above, together with appropriate prerequisites. These normally involve A-level prerequisites in each discipline selected. It is possible to complete the programme within three years, as shown in Example 1 below. However, students are strongly advised to register in a four-year degree which requires a combination of a disciplinary Major Programme with the College Programme in Development Studies. This provides the opportunity to select a wider range of development courses as well as a stronger disciplinary background.

Example 1 (three-year degree)

#### First Year:

- IDSB01Y, IDSB02Y, ECOAO1Y, GGRA05Y, SOCA01Y

#### Second Year:

- ECOB03Y, GGRB29Y, SOCB16Y, POLB80Y, POLB91Y

#### Third Year:

- ECOB66F, ECOB67S, SOCC17F, GGRB28S, GGRB24Y, POLB92Y, POLC93F, POLC94S

Example 2 (four-year degree)

#### First Year:

- ECOAO1Y, POLA01Y, SOCA01Y, ANTA01Y, GGRA05Y

## The History of Ideas

### Second Year:

- ECOB03Y, POLB50Y, SOCB16Y, POLB91Y, IDSB02Y

### Third Year:

- ECOB66F, ECOB67S, SOCC17F, POLB80Y, GGRB28S

### Fourth Year:

- POLB70Y, ANTB17F, POLB92Y, POLC93F, POLC94S, GGRB31S, IDSB01Y

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 (284-3279)

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

- 1 HUMA01Y Prologue
- 2 ANTA01Y Introduction to Anthropology  
or  
ECOAO1Y Introduction to Economics  
or  
GGRA04Y The Nature of Human Geography  
or  
SOCA01Y Introduction to Sociology
- 3 ASTA02Y Astronomy and Astrophysics  
or  
ASTA03Y Introduction to Astronomy (for non-scientists)  
or  
BIOA03Y Introduction to Biology  
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  
or  
PHYA03Y Physics for the Physical and Life Sciences  
or  
PSYA01Y Introduction to Psychology  
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:  
HUMA10Y Introduction to the Study of Religion

- HUMA11Y Greek and Roman Mythology  
HUMB28Y Major Religious Traditions, East and West
- PHLB03F/S Philosophy and Art  
PHLB14F/S\* Philosophy of the Social Sciences
- PHLB16F/S Philosophy of History  
PHLB20F/S Belief, Knowledge and Truth  
PHLB61F/S Philosophy of Religion  
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 or economic thought from:  
ECOB20F Literature of Political Economy  
ECOB21S Literature of Political Economy II  
PHLB10F/S Political Philosophy  
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 Four and one-half full-course equivalents at least two 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
- 3 ASTA02Y Astronomy and Astrophysics  
or  
ASTA03Y Introduction to Astronomy (for non-scientists)  
or  
BIOA03Y Introductory Biology  
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  
or  
PHYA03Y Physics for the Physical and Life Sciences  
or  
PSYA01Y Introduction to Psychology  
With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.
- 4 HISA01Y European World
- 5 At least one ½ course equivalent from:  
HUMA10Y Introduction to the Study of Religion  
HUMA11Y Greek and Roman Mythology  
HUMB28Y Major Religious Traditions, East and West  
PHLB03F/S Philosophy and Art  
PHLB14F/S\* Philosophy of the Social Sciences  
PHLB16F/S Philosophy of History  
PHLB20F/S Belief, Knowledge and Truth  
PHLB61F/S Philosophy of Religion  
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 At least one ½ course equivalent in political or economic thought from:  
ECOB20F Literature of Political Economy  
ECOB21S Literature of Political Economy II  
PHLB10F/S Political Philosophy  
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

\*Students should check these courses for prerequisites.

### College Programme in History of Ideas

Supervisor: W.C. Graham (284-3279)

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

- 1 HUMA01Y Prologue  
2 ANTA01Y Introduction to Anthropology  
or  
ECOA01Y Introduction to Economics  
or  
GGRA04Y The Nature of Human Geography  
or  
SOCA01Y Introduction to Sociology

- 8 Three 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".

\* Students should check these courses for prerequisites.

### Specialist Programme

Supervisor: D. McAuliffe (284-3346)

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  
LINB05Y Introduction to Romance Languages

## Literature

The courses in this programme offer an interdisciplinary approach to literature. They are designed to expose the students to some of the fundamental questions concerning literary works and to develop their critical skills. Texts will be read in English.

LITA01Y is the core course of the *new programme*. For details please see corrigenda to 1984-85 Calendar.

### LITA01Y Introduction to Literature

An introduction to the understanding and enjoyment of literature through the reading of novels, short stories, plays, and poems drawn from literatures of various countries. All reading will be in translation.

The course will be taught jointly by faculty from such disciplines as German, Italian, Russian and Spanish, and will feature guest lectures from such disciplines as Classics, English, French, The Arts, Music, History and Philosophy.

Session: Winter Evening

Coordinator: H. Wittmann

## 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: M. Gervers (284-3346)

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
- HISC20H\* Anglo-Saxon England
- HISC62Y\* The Crusades

### Language 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
- FREB23Y\* 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
- HUMC01F/S\* Lyric Poetry of the Middle Ages in the Mediterranean Area
- ITAB31Y\* Dante and Medieval Culture
- ITAB32F\* Petrarch and Boccaccio
- LATA01Y Introductory Latin

- LATB30F\*
- LATB33F\*
- LATB35S\*
- LATB39S\*
- LATB40Y\* Supervised Reading
- SPAB12S\* History of the Spanish Language I

### Philosophy and Religion

- CLAB21Y\* Greek and Roman Religion
- CLAB23F/S Christianity in the Greco-Roman World
- HUMB20Y\* Primitive Christian Literature and Myth
- HUMB33Y World Visions from the Late Middle Ages to the Renaissance
- 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
- PHLB61F/S Philosophy of Religion
- \* Students should check these courses for prerequisites.

### Major Programme in Medieval Civilization

Supervisor: M. Gervers

Students will be expected to complete seven full-course equivalents from the following four areas:

- 1 The Arts (Fine Art, Archaeology, Drama and Music)
- 2 History
- 3 Language and Literature
- 4 Philosophy and Religion

Students are to select two full-course equivalents each from three of the four areas, and one from the remaining area. 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 (284-3315)

The Modern Languages Specialist Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the programme consisting of 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** LINA05Y Practical Language Study

**3** One full-course equivalent from the following, for every combination other than French/Spanish:

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.

## Myth and Religion

Supervisor: J. H. Corbett (284-3182)

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                       |
|   | HISB14S  | Popular Culture in Early Modern Europe                        |
|   | 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  |

## Neurosciences

As an area of study the Neurosciences has amalgamated aspects of a variety of disciplines with the goal of understanding behavioural, 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: T. L. Petit (284-3321)

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)	(Introduction to Calculus), or
MATA26Y	Calculus (or equivalent)

**2** To be completed by the end of 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

- |            |                                       |
|------------|---------------------------------------|
| 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             |
| SOCB20F/S* | Sociology of Religion                 |
- \* Students should check these courses for prerequisites.



- 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 and Physical Sciences

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 end of 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:* T. Petit (284-3321)

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.

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) (Introduction to Calculus), or  
 MATA26Y Calculus (or equivalent)

- 2** To be completed by the end of 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

- 3** To be completed by the third year of full-time study (or equivalent).  
 PSYB62Y Research in Physiological Psychology

Students are advised to consult 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 or 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.

- PSYB01S Introduction to Psychological Research  
 PSYB08S Experimental Design in Psychology (PSYB09S)  
 PSYB32F/S Abnormal Psychology  
 PSYB34F Psychometric Methods  
 PSYB40F Learning  
 PSYB45F Behaviour Modification: Origins and Application  
 PSYB50F Sensation and Perception  
 PSYB51F Perceiving and Knowing  
 (PSYB52S) Human Information Processing  
 PSYB53 Microcomputers in Experimental Psychology  
 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  
 BIOB02Y Basic Microbiology  
 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

## Quaternary Studies

### Major Programme in Quaternary Studies

*Supervisor:* J.C. Ritchie (284-3155)

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 eight courses, two of which are required: QUAA03Y and QUAC01Y. 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

In the first two years:

- ANTA01Y Introduction to Anthropology  
 BIOA03Y Introductory Biology

- and, either  
 GGRA05Y Introduction to Physical Geography

or

- GLGA01Y Planet Earth: an Introduction to Geology

### B & C-Level

QUAC01Y (NSCB02)	Quaternary Environments and Man
plus at least three full-course equivalents from:	
ANTB26Y	Introduction to Prehistoric Archaeology
or	
ANTB11F	Human Behaviour in the Old Stone Age
and	
ANTB12S	The Rise of Civilization
ANTB14Y	Human Evolution
BIOB12Y	Fundamentals of Ecology
BIOC11Y*	Quaternary Plant Ecology
GGRB07Y*	Geomorphology: The Pleistocene Epoch
GGRC25S*	Sedimentary Models
GGRB03Y	Climatology
GLGB01Y	Mineralogy and Petrology
GLGB02S	Stratigraphy and Sedimentation
GLGB04S*	Quaternary Stratigraphy
* The student should note that prerequisites for these courses are not included in the Quaternary Studies Programme.	

### QUAA03Y Ice Ages and Human Ecology

A thematic introduction to the interdisciplinary study of the "Ice Age" (Quaternary) and of human paleoecology, involving several Quaternary specialists.

A series of lectures which emphasize research problems of current interest, such as climatic change, the formation of glacial ice, faunal extinctions, human origins, the domestication of plants and animals, human migration into the Western Hemisphere, and earlier per week, and occasional fieldtrips.

Exclusion: 9NSCA03)

Session: Winter Day

J.C. Ritchie (co-ordinator)

### QUAC01Y Quaternary Environments and Man

An interdisciplinary course on the physical, biological and cultural events and processes of the Quaternary Period. The seminars and reading part of the course will be devoted to recent, advanced methods in environmental reconstruction. The laboratory part will be centred on a local project in which geological, biological and cultural aspects of a site or site complex will be subjected to an integrated field and laboratory investigation.

One two-hour seminar per week and one three-hour field/laboratory period on alternate weeks. Exclusion: (QUAB02Y) Prerequisites: QUAA03Y plus any two (2) of the B- courses listed in the Quaternary Studies Major Programme Session: Winter Day TBA

## Renaissance Studies

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. 28.)

### Specialist Programme in Renaissance Studies

Supervisor: E.P. Vicari (284-3175)

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                                  |
| FARB27F  | Baroque Painting in Southern Europe 1600-1650 |
| FARB29Y  | Baroque Painting in the Netherlands           |
| 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 Renaissance

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 (284-3175)

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

PHLB45S

PHLB40F

PHLB41S

PHLB42F

PHLB43S

PHLB46F

PHI105Y

GLL230Y

PHL200Y

PHL268H

POLB70Y

### 2 Fine Art, Music and Drama

Two full-course equivalents from the following:

FARB15F Renaissance in Italy

FARB16Y The Arts of Northern Europe, 1400-1500

FARB19F Michelangelo

FARB27F Baroque Painting in Southern Europe 1600-1650

FARB29Y Baroque Painting in the Netherlands

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

Three full-course equivalents from the list under (3) of Specialist Programme.

Philosophers of the Middle Ages I

Philosophers of the Middle Ages II

Plato and His Predecessors I

Plato and His Predecessors II

Aristotle I

Aristotle II

Philosophy of the Early Modern Age I

Philosophy in Western Culture

Greek and Roman Philosophy

The Birth of Western Philosophy (Plato and Aristotle)

Political Theories: Ancient and Medieval

Political Thought from Plato to Locke

## Society, Values and Medicine

The programme provides a focus for the study of social, political and ethical aspects of medicine in North America and cross culturally.

There has in the last decade been an increasing awareness of the large extent to which social, political and ethical judgments and concepts are involved in the theory and practice of medicine. There has also been a growing awareness that, while an increased ability on the part of physicians to deal with these aspects of medicine is desirable and clearly needed - an excellent reason for those contemplating a medical career to consider seriously this programme - these are matters about which society and not medicine alone should deliberate and make judgments. However, this requires that individuals be exposed to the issues and be provided with the analytic skills that enable them to think as clearly as possible about the issues. This programme is designed to meet these requirements.

### Major Programme in Society, Values and Medicine

Supervisors: M. Hammond (Sociology 284-3193); P. Thompson (Philosophy 284-3279)

The Programme requires completion of six full course equivalents as described below.

1 ANT51Y; ANTC45F/S or ANTC46F/S;

PHLB05F/S; PHLC05F/S; PSYB32F/S;

PSYB65F/S; SOCB17F/S

2 Two full-course equivalents from the following group: ANT54Y; PHLB71F/S; PHLC71F/S;

PSYC66F/S; SOCB11Y; SOCB19Y; SOCC28F/S;

ANT547F/S; and whichever course of ANTC45F/S or ANTC46F/S was not selected in 1. **J84609S**

Note: ANTA01Y and PSYA01Y are normally prerequisites for ANT and PSY courses in this programme.

## Terrain and Environmental Earth Sciences

### Specialist Programme in Terrain and Environmental Earth Sciences

Supervisor: K. Howard

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, and the basic sciences.

The programme comprises fifteen and one-half courses. In addition, two field courses must be taken beyond the twenty courses required for the Four Year Degree. Each is of two weeks duration and must be taken at end of the 2nd and 3rd years.

First year: **or GGPA05Y**  
GLGA01Y Introductory Geology  
MATA26Y Calculus

or  
MATA55Y Calculus with Analysis  
CHMA02Y General Chemistry  
PHYA03Y Physics for the Physical and Life Sciences - must be taken within 1st 10 courses of the programme

or  
BIOA03Y Introductory Biology - must be taken within 1st 15 courses of the programme  
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

and  
MATB42S Techniques of the Calculus of Several Variables II

or  
MATB50F Analysis I

and  
MATB55S Analysis II  
CHMB03Y Physical Chemistry I

or  
CHMB02Y Analytical Chemistry  
CSCA56F Computer Programming

or  
CSCA58F Introduction to Computing

Third year:  
GLG318F Introductory Petrology I  
GLG319S Introductory Petrology II  
GLG331S Introduction to Geochemistry  
GGRB07Y Geomorphology: The Pleistocene Epoch

or  
GLG326F Glacial and Periglacial Geology  
GGRC28Y Hydrology of Surface and Subsurface Waters

GLG332F Geometry and Kinematics of Tectonic Structures

## Women's Studies

### Fourth year:

GLGC01Y	Fundamentals of Hydrogeology
GLG400H	Environmental Geochemical Analysis
GLGC02S	Applied Glacial Geology
GGRC25S	Sedimentary Models
or	
GLG429S	Sedimentology of Clastic Rocks

### Major Programme in Women's Studies

Supervisor: M. E. Irwin (284-3182)

The Major Programme in Women's Studies provides an interdisciplinary perspective on women in the past and present in various societies and cultures. It is designed to acquaint students with the critical concepts and methodologies used to examine the role and significance of women within any field of study. Students may complete the programme by selecting six women's studies courses, and they should select an emphasis either in the humanities or in the social sciences. In many cases students will be able to combine a major in women's studies with a major in one of the College's disciplines. However, because of the wide range of possibilities for anyone planning a double major, students are strongly urged to consult the Supervisor of Studies early and regularly.

### The Major Programme in Women's Studies with an emphasis in the Humanities

(see also note 1 below).

Students must select six FCEs as follows:

- 1 JHSA01Y Introduction to Women's Studies.
- 2 3 FCEs from list A.
- 3 1.5 FCEs from list B.
- 4 JHSC01H Senior project in Women's Studies.

### The Major Programme in Women's Studies with an emphasis in Social Sciences

(see also note 1 below.)

Students must select six FCEs as follows:

- 1 JHSA01Y Introduction to Women's Studies.
- 2 3 FCEs from list B.
- 3 1.5 FCEs from list A.
- 4 JHSC01H Senior project in Women's Studies.

### List A

- \*ENG40F Women Poets
- \*FREB80F/S Images of Women in French Literature
- \*FREB81F/S Women's Consciousness in French Literature
- \*HISB10F/S Women from the Renaissance to the Present
- HUMB26Y Women in the Major Religions
- HUMB60F/S Women Artists in Society
- HUMB61F/S Women in Ancient Greece
- HUMB64Y Feminism and Literary Considerations
- \*LINB28F Language and Sex
- PHLB05F/S Social Issues

### List B

- \*ANTB15Y Biological Anthropology
- \*ANTB20Y Introduction to Social Organization
- \*ANTB40Y Anthropological Demography
- ANTB54Y Anthropology of Sex
- \*ANTC11Y Anthropology of Women
- \*ANTC12F Social Behaviour of Non-Human Primates
- \*PSYB10F/S Introduction to Social Psychology
- \*PSYC22S Socialization Process
- \*SOCB08F Sociology of the Family as a Group
- \*SOCB09S Sociology of the Family as an Institution
- \*SOCC10F/S Sex, Self and Society
- \*SOCC24F/S Changing Family Life in Canada
- \*SOCC28F/S Sociology of Aging
- \*SOCC29F/S Variant Family Forms

### Note:

1 All courses with an \* have a prerequisite. Students should nonetheless check all the courses for prerequisites. In some cases, JHSA01Y may be substituted for another prescribed course. Please see instructor and Supervisor of Studies.

### JHSA01Y Introduction to Women's Studies

Women and their roles and relationships in various societies. Taught by approximately fifteen faculty members representing about eleven disciplines in the Humanities and Social Sciences. 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 may include women and mythology, women and power, women's roles in the family, and women and literature. Among 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.

Lecture and discussion with occasional seminars.

Session: Winter Day

Co-ordinator: D. James

### JHSC01H Senior Project in Women's Studies

A research project chosen by the student, approved by the Supervisor in Women's Studies, and supervised by one faculty member. After the topic has been approved, a second reader will be appointed.

The student will write a substantial essay or give a major presentation on an approved topic in Women's Studies.

The course is designed for students completing the Major Programme in Women's Studies and is normally taken after completion of ten full-course equivalents.

Students are advised to design a project in an area in which they have already done some concentrated study and, where possible, to build upon work taken in previous courses.

Arrangements with the faculty in Women's Studies and the supervisor must be made by the student before the end of the pre-registration period in the spring.

Prerequisite: Open to students majoring in Women's Studies, who have already completed 10 FCEs

Session: Winter Day

# 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, e.g. 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, 1984

### Monday 14th May:

Classes for 'F' 'H' 'A' and 'Y' courses begin

### Friday 29th June:

Classes for 'A' and 'F' courses end

### Tuesday 3rd July:

Classes for 'B' and 'S' courses begin

### Friday 17th August:

Classes for 'Y' 'B' 'H' and 'S' courses end

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
ANTB46Y	Childhood in Contemporary Cultures	MW7-10
COMB01Y	Management Accounting	MW7-10
DRAB10A	Improvisational Theatre:	MTWR7-10
MTWR7-10	The Commedia dell'Arte	MW7-10
ECOA01Y	Introduction to Economics	TR7-10
ECOB03Y	Price Theory	MW5-7
ECOB07Y	Macroeconomic Theory and Policy	TR7-10
ECOB11F	Quantitative Methods in Economics	TR7-10
ENGB07Y	Canadian Literature in English: Introduction	MW7-10
<del>ENGB12Y</del>	English Drama to 1642	TR7-9
ENGCB95F	George Bernard Shaw	TR7-9
FARB85B	Intermediate Etching	MTWR7-10
FREB06B	Language Practice I	MTWR9:30-1
HISB35Y	Twentieth Century America	MW7-10
HISB42Y	French Canada: Origins to the Present	TR7-10
JCSB27Y	Organizational Behaviour	MW7-10
PHLB01F	Ethics	MW7-10
PHLB05F	Social Issues	TR7-10
PHLB70S	Philosophy of Science	MW7-9
POLA01Y	Introduction to Political Studies	MW7-10
PSYA01Y	Introduction to Psychology	MW7-10
PSYB60F	Brain Mechanisms and Behaviour: I	TR7-9
PSYC20S	Current Topics in Developmental Psychology	TR7-9
PSYC54F	Art and the Psychology of Perception	MW5-7
SOCB10Y	Social Class and Social Stratification	TR7-10
COMC04F	Principles of Marketing	MW7-10
COMC05S	Introduction to Marketing Management	MW7-10
CSCA56H	Computer Programming	MW7-10
JLPB24S	Developmental Psycholinguistics	TR7-10
JLPB55F	Psycholinguistics	TR7-10
MATA26Y	Calculus	TR7-9
		+ TR6-7 or 9-10
PSYB32F	Abnormal Psychology	MW7-10
SOCB10F	Sex, Self and Society	TR7-10
SOCB20S	Criminal Behaviour	TR7-10 <sup>21</sup>

## Stratford Summer Seminars

Each week members are provided with tickets to six productions in Stratford, participate in house seminars which provide an academic background of the plays, and attend seminars conducted by the leading actors, directors, and designers of the Stratford Festival. In 1983 these seminars counted among their guests such people as John Hirsch, Roberta Maxwell, Brian Bedford, John Neville and Nicholas Pennell.

The Seminar Programme also organizes theatre outings during the academic year, and usually brings distinguished actors into the College for seminars and master classes during the term.

In 1984 we plan to conduct the Seminars in the weeks of 6 August, 12 August and 20 August.

## Winter Session Evening Courses

ANTB37F	History of Mexico & Mesoamerica	R7-10
ANTA01Y	Introduction to Anthropology	T7-10
ANTB20Y	Introduction to Social Organization	M7-10
ANTB46Y	Childhood in Contemporary Cultures	<del>W7-10</del>
BIOB22Y	Comparative Vertebrate Morphogenesis	M7-9 R9-12 P3001 R2-5 P3002
COMA01Y	Financial Accounting	T7-10 L30 R7-10 L31
COMB01Y	Management Accounting	T7-10 L30 M7-10 L31
COMC01Y	Intermediate Financial Accounting	R7-10
COMC04F	Principles of Marketing	M7-10 L30 W7-10 L31
COMC05S	Introduction to Marketing Management	W7-10
COMC10F	Management Control Systems	T7-10
COMC15Y	Income Tax	M7-10 L30 W7-10 L31
COMC50F	Advanced Accounting	W7-10
COMC55S	Current Issues in Accounting	T7-10
COMC60S	Auditing	M7-10
CSCA56F	Computer Programming	R7-9 T7-9 T3001
DRAB05Y	The Art and Nature of Comedy	M7-9
ECOA01Y	Introduction to Economics	R7-10
ECOB03Y	Price Theory	W7-10
ECOB07Y	Macroeconomic Theory and Policy	R7-10
ECOB11S	Quantitative Methods in Economics I	M7-10
ECOB12F	Quantitative Methods in Economics II	M7-10
ECOB32F	Economics of the Public Sector: Expenditures	<del>W7-10</del> T7-10
ECOB66S	Economic Development	W7-10
ENGA01Y	English Literature: Practical Criticism and Interpretation	M7-10
ENGB15Y	English Poetry	M7-10
ENGB33Y	Fiction 1900-1950	R7-10
ENGC90F	D.H. Lawrence: The Shorter Fiction	T7-10
ENGC96S	T.S. Eliot: Selected Poetry and Criticism	T7-10
FARA11S	<del>Ancient Art</del> Medieval Art	R7-9
FARA13S	Modern Art: 1750 to the Present	T7-9
FARA70F	Two and Three Dimensional Design	T7-10
FARA71S	Colour	T7-10
FARA90Y	Foundation Studies in Studio	W7-10
FARB10F	Carolingian and Romanesque Art and Architecture	R7-9
FARB19F	Michelangelo	W7-9
FARB29Y	Baroque Painting in the Netherlands	M7-9
FARB75Y	Introduction to Painting	R7-10
FARB82F	Introduction to Lithography	M7-10
FARB83S	Intermediate Lithography	M7-10
FARC15S	Cubism and Related Movements	T7-9
FREA18Y	Introductory Business French	W7-10
FREB02Y	Introduction to Literary Analysis	T7-9
FREB06Y	Language Practice I	W7-10
FREB16Y	Language Practice II	R7-10
GLGA02S	Geology in the Urban Environment	T7-9
GRHB02Y	Greek and Roman History from the Death of Alexander to Gracchi	T7-10
HISA01Y	The European World: An Introduction to History	R7-9
HISB04Y	Introduction to Canadian History	W7-9
HISB13Y	Europe in the Reformation Era: 1450-1650	T7-10

ENIGESF

107-10

W7-10

HISB31S	Slavery in the American South	M7-9
HISC15Y	Social Conflict and Accommodation in Modernizing Societies	R7-9
HUMA11Y	Greek and Roman Mythology	T7-10
<del>HUMB00F</del>	<del>Women Artists in Society</del>	<del>R7-9</del>
HUMB64Y	Literary Considerations and Feminism	T7-9
HUMB80Y	Creative Writing: An Introduction	M7-9
JCEB54S	Industrial Relations	T7-10
JCEC02Y	Corporation Finance	T7-10
JCSB27Y	Organizational Behaviour	R7-10
JMPB50F	Symbolic Logic	W7-10
JMPC51S	Symbolic Logic II	W7-10
LITA01Y	Introduction to Literature	W7-10
PHLB03F	Philosophy and Art	R7-10
PHLB40F	Plato and his Predecessors I	M7-10
PHLB41S	Plato and his Predecessors II	M7-10
PHLC76S	Seminar in Philosophy	R7-10
POLB60Y	Public Administration	T7-10
POLB65Y	Political Behaviour	M7-10
PSYA01Y	Introduction to Psychology	T7-10
PSYB01F	Introduction to Psychological Research	M7-10
<del>PSYB07S</del>	<del>Data Analysis in Psychology</del>	<del>T7-9 P3001</del>
		<del>R7-9</del>
		<del>R4 T3001</del>
		<del>R5 T3002</del>
		<del>R6 T3003</del>
		<del>R8 T3004</del>
PSYB10F	Introduction to Social Psychology	R7-9
PSYB32F	Abnormal Psychology	W7-9
PSYB32S	Abnormal Psychology	R7-9
PSYB45S	Behaviour Modification: Origins and Applications	W7-10
PSYB50F	Sensation and Perception	T7-10
PSYB53S	Microcomputers in Experimental Psychology	M7-10
PSYC20S	Current Topics in Developmental Psychology	T7-10
PSYC54F	Art and the Psychology of Perception	M7-9
SOCA01Y	Introduction to Sociology	T7-10
SOCB05Y	Urban Sociology	W7-10
SOCC20Y	Sociology of Religion	R7-10
SOCC22S	Qualitative Methods in Social Research	W7-10
SOCC24S	Changing Family Life in Canada	M7-10
SOCC28F	Sociology of Aging	M7-10

PSYB62Y

M7-9  
P3001 T7-10

## Winter Session Courses 1987-88

ANTA01Y	L01	T11-1	BIOB02Y	L01	T9-11
	L02	R11-1		P0001	T2-5
	L30	T7-10		P0002	R9-12
	T0001	M9	BIOB05Y	L01	WF9
	T0002	M1		P0001	M2-5
	T0003	T9		P0002	W2-5
	T0004	T4	BIOB06Y	L01	MW2
	T0005	W12		P0001	T10-1
	T0006	W1		P0002	W10-1
	T0007	R9	BIOB08Y	L01	MW12
	T0008	R10		P0001	R10-1
	T0009	F2		P0002	R2-5
	T0010	F11	BIOB11Y	L01	MW1
ANTB02Y	L01	M3-5W4		P0001	F10-1
ANTB05S	L01	M2W2-4	BIOB12Y	L01	MW4
ANTB11F	L01	MW9		P0001	M10-1
ANTB12S	L01	MW9		P0002	R2-5
ANTB14Y	L01	M2-5	BIOB13Y	L01	MW11
	<del>P0001</del>	<del>W4</del>		P0001	T10-1
ANTB16F	L01	M2W2-4		P0002	T2-5
ANTB19F	L01	W12-2		P0003	T6-9
ANTB20Y	L30	M7-10E	BIOB15Y	L01	T1-3
<del>ANTB20Y</del>	<del>L01</del>	<del>MW10</del>	BIOB17Y	L01	MW1
ANTB37F	<del>L30</del>	<del>M11 R7-10</del>		P0001	M2-5
<del>ANTB37F</del>	<del>L01</del>	<del>M11 R7-10</del>		P0002	<del>T2-5</del> T10-1
ANTB40Y	L01	W2-4		P0003	T2-5
ANTB43S	L01	W10-12		P0004	W10-1
ANTB44Y	L01	T11-1		P0005	M6-9E
<del>ANTB46Y</del>	<del>L00</del>	<del>W7-10E</del>	<del>BIOB13S</del>	<del>L01</del>	<del>T2-5</del>
ANTB47F	L01	R1-4		<del>P0001</del>	<del>F2-5</del>
ANTB48S	L01	R1-4	BIOB20F	L01	M2F1
	<del>T0001</del>	<del>M1-5</del>		P0001	R9-12
ANTB49S	L01	WF1		L30	M7-9E
ANTB51Y	L01	T2-4	BIOB22Y	P3001	R9-12
ANTC03F	L01	TBA		P3002	R2-5
ANTC04S	L01	TBA	<del>BIOB23Y</del>	<del>L01</del>	<del>R1-5</del>
ANTC11Y	L01	R11-1		<del>P0001</del>	<del>W10-1</del>
ANTC13F	L01	TBA		<del>P0002</del>	<del>W2-5</del>
ANTC14S	L01	TBA	BIOB27Y	L01	MW10
ANTC43Y	L01	R11-1		P0001	F9-12
				P0002	F2-5
ASTA02Y	L01	T1R10	BIOB31F	L01	R10-12
	T0001	R1		P0001	R2-5
ASTA03Y	L01	TR11	<del>BIOB43Y</del>	<del>L01</del>	<del>MW9</del>
	T0001	R10		<del>P0001</del>	<del>T2-5</del>
	T0002	R12	BIOB47Y	L01	T2-4
	T0003	R2		P0001	F1-5
ASTC01H	L01	TBA	BIOB48F	L01	F1-3
				P0001	W2-5
			BIOB49S	L01	F1-3
				P0001	W2-5
BIOA03Y	L01	TR9	BIOC01Y	L01	TBA
	L02	TR1	BIOC02Y	L01	TBA
	P0001	T10-1	BIOC09F	L01	TBA
	P0002	W1-4	BIOC10S	L30	T6-9E
	P0003	R2-5	BIOC12H	L01	M11
	P0004	F1-4	BIOC13S	L01	T10-12

P0001 W2-5



BIOC14F	L01 P0001	MF3 W6-9	CHMC49S CHMC51S CHMC52S	L01 L01 L01	TBA TBA TBA
CHMA02Y	L01 L02 P0001 P0002 P0003 P0004 P0005 P0006 P0007 P0008 P0009 P0010 P0011 P0012 P0013 P0014 P0015 P0016 P0017 P0018 P0019 P0020	MW9 MW11 M1-5 M1-5 M1-5 T1-5 T1-5 T1-5 W1-5 W1-5 F12-4 F12-4 M1-5 M1-5 M1-5 T1-5 T1-5 T1-5 W1-5 W1-5 F12-4 F12-4	CLAA01Y CLAB02Y CLAB23F  COMA01Y    COMB01Y    COMC01Y  COMC04F  COMC05S  COMC06S <del>COMC07S</del> COMC10F COMC15Y  COMC26F COMC30Y  COMC50F COMC55S COMC60S COMC80F/S/H/	L01 L01 L01  L01 L02 L03 L04 L30 L31 L01 L02 L30 L31 L01 L02 L30 L01 L30 L31 L01 L30 L31 L01 L30 L31 L01 L02 L30 L30 L30 L30 L01	MWF11 T11-1 M3-5W4  T3-5 R3-5 W9-11 R9-11 T7-10E R7-10E T4R3-5 R9-11 T7-10E M7-10E TR11-1 T12-2R1-3 R7-10E R3-5 M7-10E W7-10E R3-5 W7-10E T9-11 <del>T9-11</del> T7-10E M7-10E W7-10E M9-11 T9-11 R9-11 W7-10E T7-10E M7-10E TBA
CHMB01Y	L01 T0001	M2F11 F10	COMC06S <del>COMC07S</del> COMC10F COMC15Y	L01 L01	T9-11 <del>T9-11</del>
CHMB02Y	L01 T0001 P0001 P0002 P0003 P0004	M11 F9 W9-4 W9-4 R9-4 R9-4	COMC26F COMC30Y	L01 L01	M9-11 T9-11
CHMB03Y	L01	M3-5W3	COMC50F COMC55S COMC60S COMC80F/S/H/	L01	R9-11
CHMB05Y	L01 P0001 P0002 P0003 P0004 P0005 P0006 P0007 P0008	MF12 T9-1 W9-1 W9-1 R1-5 T9-1 W9-1 W9-1 R1-5	CSCA56F	L01 L30	MW2 R7-9E
CHMC01Y	L01 P0001 P0002	M9-11 T10-5 T10-5		T0001 T0002 T0003	T9-11 W9-11 W9-11
CHMC02Y	L01 P0001	W2-4 T10-5		T0004 T0005	R9-11 T11-1
CHMC03Y	L01 P0001 P0002 P0003	M12T9 R9-12 R9-12 R9-12		T0006 T0007 T3001	T11-1 F11-1 T7-9E
CHMC45Y	L01	TBA	CSCA56S	L01	MW2
CHMC46Y	L01	TBA		T0001	T2-4
CHMC47F	L01	TBA		T0002 T0003 T0004	F2-4 R3-5 T11-1

CSCA58F	L01 L02 T0001 T0002 T0003 T0004 T0005 T0006 T0007 T0008 T0009 T0010 T0011	MW2 MW4 M3-5 T10-12 W3-5 R11-1 R3-5 W9-11 F11-1 F1-3 T1-3 W11-1 W12-2	DRAB05Y DRAC01Y DRAC10Y DRAC11Y DRAC12Y DRAC13Y DRAC14Y DRAC20Y DRAC21Y DRAC22Y DRAC23Y DRAC24Y DRAC25F DRAC26S DRAC27F DRAC28S	L30 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01	M7-9E T2-5 TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA
CSCA66S	L01 T0001 T0002 T0003 T0004 T0005	MW2 M3-5 F2-4 R9-11 F11-1 R10-12		L01 L01 L01 L01 L01 L01	
CSCA68S	L01 T0001 T0002 T0003 T0004 T0005 T0006 T0007 T0008 T0009 T0010	MW2 M3-5 T9-11 W3-5 R11-1 R3-5 F2-4 W11-1 T2-4 F11-1 R1-3	ECOA01Y	<del>L01</del> L01 L02 L30 T0101 T0102 T0103 T0201 T0202 T0203 T0301 T0302 T0303	<del>MWF11</del> MWF12 MWF1 R7-10E M2 T12 R1 M11 M3 W3 M9 T11 T12
CSCB28S	L01 T0001 T0002 T0003	MW4 F12 F3 F4	ECOB03Y	L01 L02 L03 L30	MWF9 MWF11 MWF2 W7-10E
CSCB58F	L01 P0001 P0002 P0003 T0001 T0002 T0003 T0004	MF11 R9-12 R2-5 T2-5 M12 F3 F4 W2	ECOB07Y	L01 L02 L03 L30	MWF12 MWF1 MWF12 R7-10E
CSCB68S	L01 T0001 T0002 T0003	MW9 F12 F3 F4	ECOB11F	L01 L02 L03 L30	MWF2 MWF2 MWF2 M7-10E
CSCC34F	L01	M12W12-2	ECOB11S	L01	M7-10E
CSCC64S	L01	M12W12-2	ECOB12F	L30	M7-10E
CSCC78F	L01 T0001 T0002 T0003	MW11 W3 M10W2-4 TBA	ECOB12S ECOB13S ECOB20F ECOB21S ECOB31F ECOB32F ECOB35F ECOB37S ECOB41F ECOB41S <del>ECOB45F</del>	L01 L01 L01 L01 L01 L01 L01 L01 L01 L01 L01	MWF2 MWF2 R3-5 R10-12 M2-4 WF10 <del>W7-10E</del> T7-9E R11-1 MW9 MW11 MW12 M12-2 W2-4
CSCC85S	L01 T0001	M10W2-4 TBA	ECOB45F	<del>L01</del>	M12-2
DRAB01Y	L01	MWF10-12	ECOB51S	L01	M12-2
DRAB04Y	L01	M3-5W4	ECOB61S	L01	W2-4

ECOB62F	L01	M9-11	ENG24Y	L01	M3-5
ECOB66S	L30	W7-10E	ENG60F	L01	F2-4
ECOB68S	L01	M3-5	ENG61S	L01	F2-4
ECOB81Y	L01	W10-12	ENG90F	L30	T7-10
ECOB82Y	L01	W10-12	ENG96S	L30	T7-10
ECOC05S	L01	W2-4	FARA10F	L01	M3-5
ECOC07S	L01	W2-4	FARA11S	L30	R7-9E
ECOC08F	L01	F9-11	FARA12F	L01	T2-4
ECOC11F	L01	TBA	FARA13S	L30	T7-9E
ECOC12S	L01	TBA	FARA70F	L01	W7-10E
ECOC13F	L01	R3-5	FARA71S	L01	W7-10E
ECOC14S	L01	F2-4	FARA90Y	L01	T9-12
ECOC15F	L01	M3-5	FARB04F	L01	R3-5
ECOC16S	L01	M3-5	FARB05S	L01	R3-5
ECOC21F	L01	F11-1	FARB10F	L30	R7-9E
ECOC22S	L01	F11-1	FARB19F	L30	W7-9E
ECOC23F	L01	W3-5	FARB27F	L01	T11-1
ECOC24S	L01	W3-5	FARB29Y	L30	M7-9E
ENGA01Y	L01	MWF9	FARB37F	L01	R3-5
	L02	T1R1-3	FARB48F	L01	W2-4
	L03	MWF10	FARB54S	L01	W2-4
	L04	MWF10	FARB60Y	L01	R11-1
	L05	MWF11	FARB70F	L01	T1-4
	L06	T1R1-3	FARB72F	L01	R1-4
ENGA02Y	L01	MWF1	FARB74S	L01	R1-4
ENGA08Y	L01	TR2	FARB75Y	L30	R7-10E
	T0001	M10	FARB81S	L01	T1-4
	T0002	M10	FARB82F	L30	M7-10E
	T0003	M11	FARB83S	L30	M7-10E
	T0004	M11	FARB90F/S	L01	TBA
	T0005	M1	FARB91F/S	L01	TBA
	T0006	M1	FARB93F/S	L01	TBA
	T0007	M2	FARB94F/S	L01	TBA
ENGB05Y	L01	T11-1R11	FARB95F/S	L01	TBA
ENGB10Y	L01	MW11	FARB96F/S	L01	TBA
	T0001	F9	FARC02F	L01	TBA
	T0002	F9	FARC03S	L01	TBA
	T0003	F10	FARC04Y	L01	TBA
	T0004	F11	FARC15F	L30	T7-9E
ENGB11Y	L01	F2-4	FARC21Y	L01	TBA
ENGB12Y	L01	MWF12	FARC22Y	L01	TBA
ENGB14Y	L01	TR11	FARC24F	L01	TBA
ENGB15Y	L30	M7-10E	FARC25S	L01	TBA
ENGB17Y	L01	MWF11	FARC90F	L01	TBA
ENGB20F	L01	MWF1	FARC91S	L01	TBA
ENGB21S	L01	MWF1	FREA06Y	L01	TR9-11
ENGB31Y	L01	MF12		L02	M3-5W2-4
ENGB32Y	L01	W2-4			
ENGB33Y	L30	R7-10			
ENGB72F	L01	MWF9			
ENGB73S	L01	MWF9			
ENGB95Y	L01	M3-5W4			
ENG14Y	L01	TBA			
ENG15Y	L01	TBA			
ENG08Y	L01	T2-4			

FREA16Y	L01	M3-5W2-4	GERC48Y	L01	TBA
	L02	TR9-11	GERC50Y	L01	MWF12
FREA18Y	L30	W7-10			
FREB02Y	L30	T7-9E	GGRA04Y	L01	R9-11
FREB06Y	L01	MWF9		P0001	T1
	L02	MWF10		P0002	T2
	L03	M2W2-4		P0003	T3
	L04	T11-1R11		P0004	R1
	L05	MWF11		P0005	R2
	L06	T1R1-3		P0006	R3
	L07	T9-11R10	GGRA05Y	L01	T9-11
	L30	W7-10E		P0001	T11-1
FREB16Y	L01	MWF11		P0002	W11-1
	L30	R7-10E	GGRB01Y	L01	T9-11
FREB17H	L01	MWF12	GGRB03Y	L01	W11-1
FREB18Y	L01	T11-1		P0001	M11
FREB19Y	L01	MWF11	GGRB05Y	L01	T11-1
FREB25Y	L01	T2-4	GGRB13Y	L01	MW10
FREB30F	L01	R1-3	GGRB17Y	L01	M1-3
FREB31S	L01	R1-3	GGRB19Y	L01	M9-11
FREB34Y	L01	MW1		P0001	T1-3
FREB36F	L01	MF12	GGRB24Y	L01	W2-4
FREB37S	L01	MF12	GGRB28S	L01	MW9
FREB40F	L01	MF2	GGRB29Y	L01	R9-11
FREB41S	L01	MF2		P0001	T1-3
FREB48Y	L01	MW10	GGRB30F	L01	R11-1
FREB70Y	L01	W2-4		P0001	W9-11
FREC02F	L01	TBA		P0002	R9-11
FREC03S	L01	TBA	GGRB31S	L01	R11-1
FREC04F	L01	TBA		P0001	R9
FREC05S	L01	TBA		P0002	R10
FREC06Y	L01	MWF11	GGRC04F	L01	W2-4
	L02	MWF12	GGRC05S	L01	W9-11
FREC07S	L01	TBA	GGRC12S	L01	T9-11
FREC09Y	L01	WF11	GGRC13S	L01	W2-4
FREC22Y	L01	MW1	GGRC18F	L01	MW11
FREC23S	L01	T2-4		P0001	W12
FREC24F	L01	T2-4	GGRC20F	L01	T9-11
FREC33F	L01	T11-1	GGRC24F	L01	R11-1
FREC90Y	L01	TBA		P0001	R1
			GGRC28Y	L01	R2-4
GERA09H	L01	MW1		P0001	T11-1
GERA10Y	L01	MWF9F1	GGRC29S	L01	T11-1
GERB19Y	L01	MWF11	GGRC30F	L01	M1-3
GERB20Y	L01	MWF10	GGRC31S	L01	MW11
GERB24F	L01	M3-5W4		P0001	W12
GERB33S	L01	M2W2-4	GGRC33F	L01	T1-3
GERB50S	L01	MWF10	GGRC36F	L01	W9-11
GERC10Y	L01	MWF12		P0001	W1-3
GERC30F	L01	TBA			
GERC33F	L01	TBA	GLGA01Y	L01	W2-4
GERC36S	L01	TBA		P0001	M11-1
GERC40S	L01	TBA		P0002	M1-3
GERC43F	L01	TBA	GLGA02S	L30	T7-9E
GERC46S	L01	TBA			

GGRC34F L01 M1-4 229

GLGB01Y	L01	F9-11	HISB02Y	L01	MW10
	P0001	F11-1		T0001	F9
	P0002	F1-3		T0002	F11
GLGB02S	L01	W9-11		T0003	F9
	P0001	T4-6		T0004	F10
GLGC01Y	L01	T2-5F12	HISB03Y	L01	MW9
GLGC02S	L01	TBA		T0001	T9
GLGC03H	L01	TBA		T0002	T10
GLGC03Y	L01	TBA		T0003	T9
GLGC04S	L01	TBA		T0004	T10
				T0005	T11
			HISB04Y	L01	MW2
GRHB01Y	L01	MWF10		L30	W7-9E
GRHB02Y	L30	T7-10E		T0001	F1
GRHB24S	L01	<del>MWF9</del> TBA		T0002	F2
GRHB27Y	L01	T9-11		T0003	F12
	T0001	T2		T0004	F1
	T0002	T3		T0005	F2
GRHB29Y	L01	MWF2		T3001	W6E
				T3002	W9E
			HISB06Y	L01	T2-4
GRKA01Y	L01	MTWF1		T0001	R1
GRKA10F	L01	MWF1		T0002	R2
GRKB01S	L01	MWF1		T0003	R4
GRKB10Y	L01	TR11-1	HISB10F	L01	MW2
GRKB22Y	L01	T4R3-5		T0001	T3
GRKB30F	L01	TBA	HISB13Y	L30	T7-10E
GRKB31F	L01	TBA	HISB14F	L01	R3-5
GRKB32F	L01	TBA	HISB16Y	L01	MW12
GRKB33F	L01	TBA		T0001	T2
GRKB34F	L01	TBA	HISB17Y	L01	T9-11
GRKB35S	L01	TBA		T0001	R9
GRKB36S	L01	TBA		T0002	R10
GRKB37S	L01	TBA	HISB24Y	L01	MW1
GRKB38S	L01	TBA	HISB31S	L30	M7-9E
GRKB39S	L01	TBA	HISB35Y	L01	W2-4
GRKB40Y	L01	TBA		T0001	M3
				T0002	M4
			HISB44F	L01	R9-11
HISA01Y	L01	TR12	HISC01F	L01	TBA
	L30	R7-9E	HISC02S	L01	TBA
	T0001	F1	HISC03Y	L01	TBA
	T0002	F2	HISC15Y	L30	R7-9E
	T0003	F12	HISC17Y	L01	R3-5
	T0004	F1	HISC32Y	L01	T2-4
	T0005	F2	HISC43S	L01	M3-5
	T0006	R2	HISC62Y	L01	R1-4
	T0007	R3	HISC78Y	L01	T11-1
	T0008	R4			
	T0009	R3			
	T0010	R4	HUMA01Y	L01	M3-5
	T3001	R6E		T0001	T3
	T3002	R6E		T0002	W1
	T3003	R9E		T0003	R12
HISA02S	L01	MW11		T0004	F2

HISB47Y L01 MW11  
T0001 M2

HUMB09F	L01	W2-4			
HUMB10S	L01	W2-4			
HUMA10Y	L01	R9-11	ITAB20S	L01	M3-5W4
HUMA11Y	L30	T7-10E	ITAB22F	L01	T9R9-11
<del>HUMB16Y</del>	<del>L01</del>	<del>W2-4</del>	ITAB23S	L01	T9-11R10
HUMB19F	L01	T2-4	ITAB27S	L01	MWF1
HUMB22F	L01	MW9	ITAB32F	L01	T9-11R10
	T0001	F9	ITAC01Y	L01	T1R1-3
HUMB24S	L01	MW9	ITAC50F	L01	TBA
	T0001	F9	ITAC51F	L01	TBA
<del>HUMB26Y</del>	<del>L01</del>	<del>R3-5</del>	ITAC52F	L01	TBA
HUMB42Y	L01	T9-11	ITAC53F	L01	TBA
HUMB44F	L01	W2-4	ITAC54F	L01	TBA
HUMB51F	L01	MWF10	ITAC55S	L01	TBA
HUMB57F	L01	MWF11	ITAC56S	L01	TBA
HUMB56S	L01	MWF11	ITAC57S	L01	TBA
HUMB59Y	L01	R9-11	ITAC58S	L01	TBA
<del>HUMB60F</del>	<del>L30</del>	<del>R7-9E</del>	ITAC59S	L01	TBA
HUMB64Y	L30	T7-9E	ITAC60Y	L01	TBA
HUMB70Y	L01	M3-5			
	T0001	M12	JBCB35Y	L01	TR12
	T0002	M1	JBCB36H	L01	M4
HUMB80Y	L30	M7-9E		P0001	R2-5
HUMB90Y	L01	T11-1R11		<del>L01</del>	<del>TR1</del>
HUMC10H	L01	TBA	JCEB54S	L30	T7-10E
HUMC91F	L01	TBA	JCEB72F	L01	M3W3-5
HUMC92S	L01	TBA	JCEB73S	L01	M3W3-5
HUMC93Y	L01	TBA	JCEC02Y	L01	T2-4
HUMC95Y	L01	TBA		L30	T7-10E
HUMC96Y	L01	TBA	<del>JCEC40S</del>	<del>L01</del>	<del>MW11</del>
HUMC97Y	L01	TBA	JCEC75S	L01	R11-1
HUMC98Y	L01	TBA	JCSB27Y	L01	TR10
HUMC99Y	L01	TBA		L30	R7-10E
			JEGB27F	L01	MW9
ISB01Y	L01	<del>W2-4</del>	JHSA01Y	P0001	W10
	T0001	TBA		L01	R1-3
	T0002	TBA		T0001	R10
	T0003	TBA		T0002	R11
	T0004	TBA	JHSC01H	L01	TBA
ISB02Y	L01	<del>W2-4</del> m3-5	JLPB24S	L01	T1R1-3
	T0001	TBA	JLPB55F	L01	R1-3
	T0002	TBA	JLPC55F	L01	T1R1-3
	T0003	TBA	JMCC51F	L01	MWF9
	T0004	TBA	JMPB50F	L30	W7-10E
			JMPC51S	L30	W7-10E
			JPAC10Y	L01	R1-3
ITAA01Y	L01	MWF10			
ITAA02H	L01	MW11			
ITAA03S	L01	T11-1R11	LATA01Y	L01	MTWF10
ITAA11Y	L01	MWF10	LATA10F	L01	MWF10
ITAB01Y	L01	MWF12	LATB01S	L01	MWF10
ITAB03F	L01	MWF9	LATB20F	L01	TBA
ITAB05S	L01	T1R1-3	LATB30F	L01	TBA
ITAB06S	L01	MWF9	LATB31F	L01	TBA
<del>ITAB09Y</del>	<del>L01</del>	<del>MWF12</del>	LATB32F	L01	TBA
ITAB11Y	L01	MWF12	LATB33F	L01	TBA
ITAB13F	L01	MWF1	LATB34F	L01	TBA

LATB35S	L01	TBA	MATA27Y	L01	MF9
LATB36S	L01	TBA		L02	MF10
LATB37S	L01	TBA		T0001	M3-5
LATB38S	L01	TBA		T0002	T9-11
LATB39S	L01	TBA		T0003	T1-3
LATB40Y	L01	TBA		T0004	W9-11
LATC01F	L01	TBA		T0005	W3-5
LATC02S	L01	TBA		T0006	R3-5
				T0007	F11-1
			MATA40F	L01	TR9
				L02	TR10
LINA01Y	L01	M2W2-4		T0001	T2-4
	L02	MWF10		T0002	T11-1
LINA04S	L01	M3-5W4		T0003	W9-11
LINA05Y	L01	MWF1		T0004	W3-5
LINB02S	L01	MWF11		T0005	R11-1
LINB05Y	L01	M3-5		T0006	R3-5
LINB09F	L01	MWF11		T0007	F11-1
LINB11Y	L01	MWF12		T0008	F1-3
LINB14F	L01	MWF1			
LINB15S	L01	MWF1	MATA45S	L01	TR9
LINC01F	L01	TBA		T0001	M3-5
LINC02S	L01	TBA		T0002	T11-1
LINC03F	L01	TBA		T0003	W9-11
LINC04S	L01	TBA		T0004	W3-5
LINC05Y	L01	TBA		T0005	R11-1
				T0006	R3-5
				T0007	F11-1
				T0008	F1-3
LITA01Y	L30	W7-10E	MATA55Y	L01	MF9
				T0001	T3-5
				T0002	R11-1
MATA26Y	L01	MF9		T0003	R3-5
	L02	MF10	MATB25Y	L01	M3R3-5
	L03	MF10	MATB41F	L01	MF1
	T0001	M11-1		T0001	M2-4
	T0002	M3-5		T0002	T9-11
	T0003	T9-11		T0003	W9-11
	T0004	T1-3		T0004	R9-11
	T0005	W9-11		T0005	R1-3
	T0006	W3-5		T0006	T3-5
	T0007	R9-11		T0007	F3-5
	T0008	R3-5			
	T0009	F11-1	MATB42S	L01	MF1
	T0010	F2-4		T0001	T9-11
	T0011	F1-3		T0002	R11-1
	T0012	F3-5		T0003	R3-5
	T0013	R3-5		T0004	F3-5
	T0014	R1-3			
	T0015	T3-5	MATB43S	L01	T11W10-12
	T0016	T1-3	MATB44F	L01	MF10
	T0017	W9-11	MATB49S	L01	M2F2-4
	T0018	W3-5	MATB50F	L01	T9R9-11
	T0019	R9-11	MATB55S	L01	T9R9-11
	T0020	R3-5	MATB70S	L01	M12F10-12
	T0021	M11-1	MATC43F	L01	M2F2-4
	T0022	R9-11	MATC49S	L01	M2F2-4
	T0023	F2-4	MATC51F	L01	M4-6

MATC54F	L01	W4F10-12	PHYA03Y	L01	T11F2
MATC56S	L01	R11-1 <i>ms</i>		L02	T12F3
MATC60F	L01	M3R3-5		P0001	T2-5
MATC65S	L01	M3R3-5		P0002	W2-5
				P0003	M2-5
				P0004	R9-12
				P0005	F12-3
MUSA01Y	L01	M2W2-4		T0001	T9
MUSB04F	L01	MW11		T0002	T10
MUSB05S	L01	TR11		T0003	W12
MUSB07F	L01	TR11 <i>MUSB14F</i>		T0004	T1
MUSB16S	L01	MW11 <i>L01 R1-3</i>		T0005	W1
MUSB20H	L01	MW12		T0006	T2
MUSB21H	L01	MW12		T0007	T3
MUSB22H	L01	M3		T0008	T10
	P0001	TBA		T0009	W12
MUSB23H	L01	M3		T0010	W1
	P0001	TBA			
			PHYB01S	L01	TF2
				T0001	F9
PHLA01Y	L01	MWF10	PHYB03F	L01	T2F2
	L02	MWF11		T0001	F9
	L03	MWF12	PHYB04F	L01	TF10
PHLB01F	L01	MWF9		T0001	F3
PHLB03F	L30	R7-10E	PHYB08H	L01	W9-3
PHLB05F	L01	R9-11	PHYB17S	L01	T12F3
PHLB10S	L01	T11-1		T0001	F11
PHLB15S	L01	MWF9	PHYB19S	L01	T4F10
PHLB20S	L01	<i>PHB MWF10</i>		T0001	F4
PHLB40F	L30	M7-10E	PHYC01F	L01	T11F3
PHLB41S	L30	M7-10E	PHYC03S	L01	TF1
PHLB48F	L01	M2W2-4		T0001	F12
PHLB49S	L01	M2W2-4	PHYC04F	L01	TF1
PHLB60F	L01	<i>R0-5</i>		T0001	F12
PHLB61F	L01	M2W2-4	PHYC05H	L01	W9-3
PHLB71F	L01	T2-4			
PHLC05S	L01	R9-11			
PHLC71S	L01	T2-4	POLA01Y	L01	TR2
PHLC75F	L01	T9-11		T0001	T9
PHLC76S	L30	R7-10E		T0002	T10
PHLC78F	L01	T11-1		T0003	T12
				T0004	R1
<i>PHLC50F</i>	<i>L01</i>	<i>MWF1</i>		T0005	R3
<i>PHLC79F</i>	<i>L01</i>	<i>MWF9</i>		T0006	F11
<i>PHLC80F</i>	<i>L01</i>	<i>M3-5</i>		T0007	F12
<i>PHLC81S</i>	<i>L01</i>	<i>M3-5</i>	POLB50Y	T0008	F1
				L01	TRF12
				T0001	T9
				T0002	T10
				T0003	R3
				T0004	R4
			POLB51F	L01	T9-11
			POLB52F	L01	R9-11
			POLB53S	L01	<i>F2-4</i>
			POLB54S	L01	R3-5
			POLB60Y	L30	T7-10E
			POLB65Y	L30	M7-10E

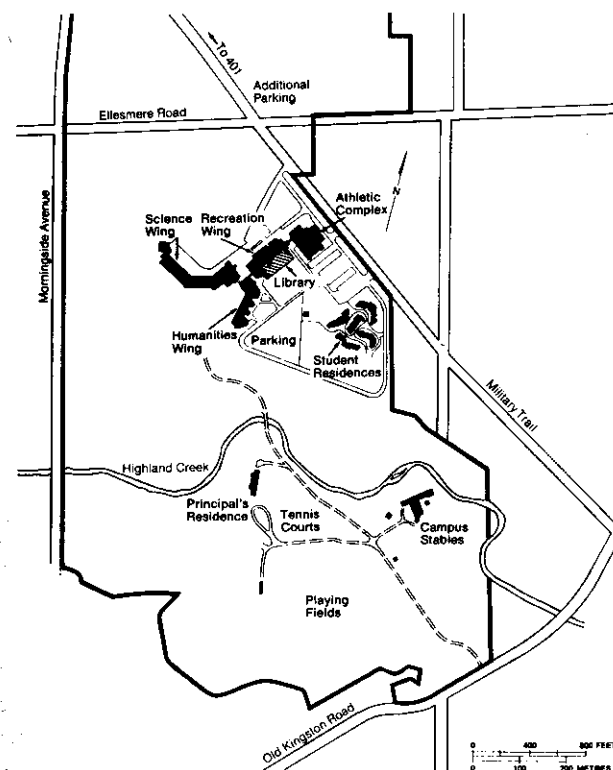
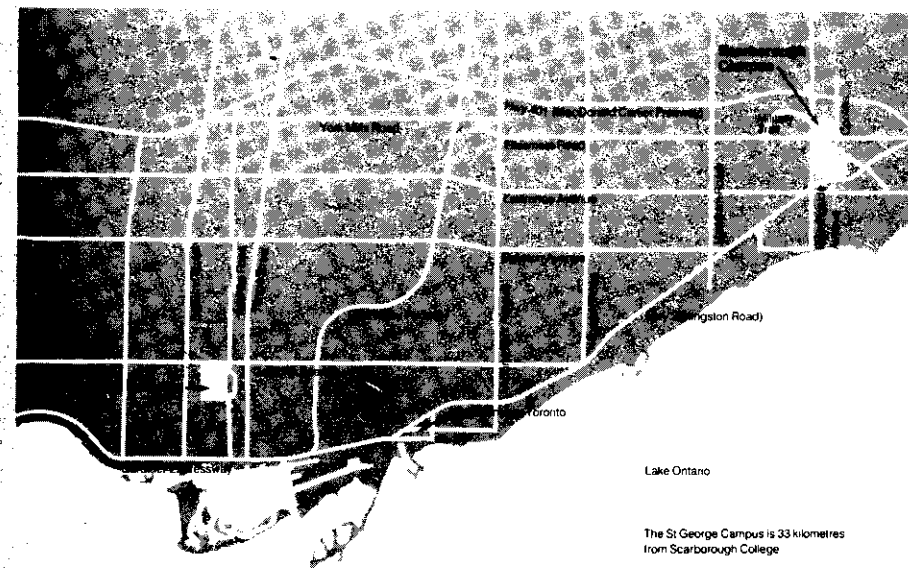
POLB66Y	L01	T11-1	PSYB45S	L30	W7-10E
POLB70Y	L01	T9-11	PSYB50F	L30	T7-10E
POLB71Y	L01	TR11	PSYB51S	L01	WF9
	T0001	R12		T0001	R9
	T0002	T3		T0002	R10
POLB80Y	L01	T1R1-3		T0003	R11
POLB82Y	L01	T2-4	PSYB53S	L30	M7-10E
POLB86Y	L01	R9-11	<del>PSYB57S</del>	<del>L01</del>	<del>T1R1-3</del>
POLB87Y	L01	MW9	PSYB60F	L01	MWF10
POLB89Y	L01	W2-4		T0001	T2
POLB91Y	L01	<del>T2-4</del> R3-5		T0002	T4
POLB93Y	L01	R3-5		T0003	F2
POLC60F	L01	F2-4	PSYB61S	L01	MWF10
POLC70Y	L01	M3-5	PSYB62Y	<del>L30</del>	<del>W7-10E</del> M7-9
POLC94S	L01	R11-1		<del>P0001</del>	<del>W2-4</del> T7-10
				<del>P0002</del>	<del>M1-4</del>
				<del>P0003</del>	<del>T2-5</del>
PSYA01Y	L01	MWF9	PSYB65F	L01	T2-4R3
	L02	MWF10	PSYC15F	L01	<del>F2-4</del>
	L03	T1R1-3	PSYC16F	L01	W11F11-1
	L30	T7-10E	PSYC20S	L30	T7-10E
PSYB01F	L01	M3-5	PSYC22S	L01	T10-12
	L30	M7-10E	PSYC32S	L01	R3-5
	P0001	T2-4	PSYC40S	L01	T2-4
	P0002	R2-4	PSYC53S	L01	F10-12
	P0003	F2-4	PSYC54F	L30	M7-9E
	P0004	M10-12	PSYC60F	L01	R11-1
	P3001	T7-9E	PSYC66S	L01	R9-11
PSYB07F	L01	T1R1-3F1	<del>PSYC66F</del>	<del>L01</del>	<del>W2-4</del>
	T0001	W9	PSYC85F	L01	T11-1W1
	T0002	W11	PSYC90F/S/H	TBA	
	T0003	W1	PSYC93F/S/H	TBA	
	T0004	W2	PSYC98Y	TBA	
	T0005	W4			
	T0006	W12			
<del>PSYB07S</del>	<del>L30</del>	<del>R7-9E</del>	QUAA03Y	L01	M3-5
	<del>T0001</del>	<del>R4</del>	QUAC01Y	TBA	
	<del>T0002</del>	<del>R3</del>			
	<del>T0003</del>	<del>R6E</del>			
	<del>T0004</del>	<del>R6E</del>			
PSYB08S	L01	T12R11-1	RUSA10Y	L01	M3-5W4
	T0001	F9	RUSA11H	L01	F2-4
	T0002	F1	RUSB02Y	L01	T1R1-3
	T0003	F2	RUSC02F	L01	TBA
			RUSC03S	L01	TBA
PSYB10F	L30	R7-9E	RUSC04H	L01	TBA
PSYB11S	L01	M11-1	RUSC05Y	L01	TBA
PSYB12S	L01	T2-4			
PSYB20F	L01	T3-5R3			
PSYB21F	L01	T11-1	SOCA01Y	L01	MWF3
PSYB30S	L01	T4R3-5		L02	T4R3-5
PSYB32F	L30	W7-9E		L30	T7-10E
PSYB32S	L30	R7-9E		T0101	W4
PSYB34F	L01	WF9	SOCB01Y	L01	M3-5W4
	T0001	R9-11	SOCB02Y	L01	F2-4
PSYB40S	L01	T9-11	SOCB03Y	L01	<del>W7-10E</del> T9-11
	P0001	T2-5	SOCB05Y	L30	W7-10E
	P0002	R2-5			

SOCB06F	L01	T1R1-3	SPAA01Y	L01	M9-11F10
<del>SOCB07Y</del>	<del>L01</del>	<del>R9-11</del>		L02	T1R1-3
SOCB08S	L01	T9-11	SPAA02H	L01	W9-11
	T0001	R9		L02	T9-11
	<del>T0002</del>	<del>R10</del>	SPAB01Y	L01	W11F11-1
SOCB09F	L01	T9-11		L02	M1-3W1
	T0001	R10	SPAB02H	L01	M11-1
SOCB13Y	L01	R11-1		L02	<del>F2-4</del> 2-4
SOCB15Y	L01	WF3	SPAB04F	L01	MWF10
	T0001	F2	SPAB22S	L01	MWF10
SOCB16Y	L01	R3-5	SPAC01Y	L01	MWF12
<del>SOCB17S</del>	<del>L01</del>	<del>T2-4</del>	SPAC02F	L01	TBA
SOCB18Y	L01	R3-5, T4	SPAC06S	L01	TBA
	<del>T0001</del>	<del>T3</del>	SPAC07S	L01	TBA
	<del>T0002</del>	<del>T4</del>	SPAC10S	L01	TBA
SOCB20Y	L01	MW10	SPAC11Y	L01	TBA
	T0001	F10			
SOCB24F	L01	T2-4			
SOCB25S	L01	T2-4	STAB52F	L01	TR1
SOCC02S	L01	T2-4		T0001	T9-11
SOCC04S	L01	WF1		T0002	W3-5
SOCC05F	L01	R1-3		T0003	R9-11
SOCC06F	L01	R3-5		T0004	R3-5
SOCC07F	L01	WF1		T0005	F1-3
SOCC10F	L01	MW11	STAB57S	L01	TR1
SOCC11S	L01	WF9		T0001	T9-11
SOCC13S	L01	MW12		T0002	W3-5
SOCC17F	L01	R9-11		T0003	R9-11
SOCC18Y	L01	T2-4		T0004	R3-5
SOCC20Y	L30	R7-10E	STAC52S	L01	T9-11R10
SOCC22S	L30	W7-10E	STAC67F	L01	T9-11R10
SOCC24S	L30	M7-10E			
SOCC28F	L30	M7-10E			
SOCC30S	L01	R11-1			
SOCC42F	L01	<del>T11-1</del> T1-3			
SOCC43S	L01	F10-12			

## Telephone Directory: frequently called numbers

<b>Associate Dean</b>	284-3124	<b>Registrar's Office</b>	
<b>Athletic Association (S.C.A.A.)</b>	284-3395	Records (Registration, transcripts, etc.)	284-3127
<b>Bookstore</b>	284-3251	Admissions/Liaison Counsellor	284-3359
<b>Cafeteria</b>	284-3110	Timetable, classroom allocation, examinations, etc.	284-3300
<b>Career Counselling and Placement</b>	284-3292	Student Services	284-3292
<b>Cashier's Office</b>	284-3103	Registrar	284-3266
<b>Community Relations Office</b> (Events enquiries)	284-3243	<b>Residence Office</b>	
<b>Computer Centre</b>	284-3122	Office	284-3174
<b>Fees Office</b>	978-2142	Dean of Students in Residence	284-3210
<b>Health Service</b>	284-3253	<b>Riding Stables</b>	282-5309
<b>Humanities Division</b>		<b>Security Desk</b> (including lost and found)	284-3398
Classics, History, Philosophy	284-3185	<b>Social Sciences Division</b>	
Drama, Music	284-3126	Receptionist	284-3137
Fine Art, English, Humanities, Linguistics	284-3146	Chairman's Office	284-3149
Languages	284-3151	<b>Student Councils</b>	
Chairman's Office	284-3304	Scarborough College Student Council (S.C.S.C.)	284-3135
		U of T S.A.C. desk	284-3219
<b>Library</b>		<b>Student Services Office</b>	284-3292
Inquiry, Circulation Desk	284-3246	<b>Writing Laboratory</b>	284-3369
Reference Desk	284-3183		
<b>Life Sciences Division</b>		Scarborough Campus	
Biological Sciences, Psychology	284-3237	University of Toronto	
Chairman's Office	284-3291	1265 Military Trail	
<b>Physical Sciences Division</b>		Scarborough, Ontario	
R-Wing Office	284-3342	M1C 1A4	
S-Wing Office	284-3227		
Chairman's Office	284-3289		
<b>Physical Services</b> (Parking enquiries, etc.)	284-3203		
<b>Post Office</b>	284-3271		
<b>Pub</b>	284-3177		
<b>Principal's Office</b>			
Principal	284-3111		
<b>Recreation Centre</b>			
Counter (Squash reservations, etc.)	284-3392		
Office (Athletic programme information)	284-284-3393		

## Campus Location



**Scarborough  
College  
Campus**

# CALENDAR

1984

January	February	March	April
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6 7	1 2 3 4	1 2 3	1 2 3 4 5 6 7
8 9 10 11 12 13 14	5 6 7 8 9 10 11	4 5 6 7 8 9 10	8 9 10 11 12 13 14
15 16 17 18 19 20 21	12 13 14 15 16 17 18	11 12 13 14 15 16 17	15 16 17 18 19 20 21
22 23 24 25 26 27 28	19 20 21 22 23 24 25	18 19 20 21 22 23 24	22 23 24 25 26 27 28
29 30 31	26 27 28 29	25 26 27 28 29 30 31	29 30

May	June	July	August
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2	1 2 3 4 5 6 7	1 2 3 4
6 7 8 9 10 11 12	3 4 5 6 7 8 9	8 9 10 11 12 13 14	5 6 7 8 9 10 11
13 14 15 16 17 18 19	10 11 12 13 14 15 16	15 16 17 18 19 20 21	12 13 14 15 16 17 18
20 21 22 23 24 25 26	17 18 19 20 21 22 23	22 23 24 25 26 27 28	19 20 21 22 23 24 25
27 28 29 30 31	24 25 26 27 28 29 30	29 30 31	26 27 28 29 30 31

September	October	November	December
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1	1 2 3 4 5 6	1 2 3	1
2 3 4 5 6 7 8	7 8 9 10 11 12 13	4 5 6 7 8 9 10	2 3 4 5 6 7 8
9 10 11 12 13 14 15	14 15 16 17 18 19 20	11 12 13 14 15 16 17	9 10 11 12 13 14 15
16 17 18 19 20 21 22	21 22 23 24 25 26 27	18 19 20 21 22 23 24	16 17 18 19 20 21 22
23 24 25 26 27 28 29	28 29 30 31	25 26 27 28 29 30	23 24 25 26 27 28 29
30		31	30 31

# CALENDAR

1985

January	February	March	April
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2	1 2	1 2 3 4 5 6
6 7 8 9 10 11 12	3 4 5 6 7 8 9	3 4 5 6 7 8 9	7 8 9 10 11 12 13
13 14 15 16 17 18 19	10 11 12 13 14 15 16	10 11 12 13 14 15 16	14 15 16 17 18 19 20
20 21 22 23 24 25 26	17 18 19 20 21 22 23	17 18 19 20 21 22 23	21 22 23 24 25 26 27
27 28 29 30 31	24 25 26 27 28	24 25 26 27 28 29 30	28 29 30
		31	

May	June	July	August
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4	1	1 2 3 4 5 6	1 2 3
5 6 7 8 9 10 11	2 3 4 5 6 7 8	7 8 9 10 11 12 13	4 5 6 7 8 9 10
12 13 14 15 16 17 18	9 10 11 12 13 14 15	14 15 16 17 18 19 20	11 12 13 14 15 16 17
19 20 21 22 23 24 25	16 17 18 19 20 21 22	21 22 23 24 25 26 27	18 19 20 21 22 23 24
26 27 28 29 30 31	23 24 25 26 27 28 29	28 29 30 31	25 26 27 28 29 30 31
	30		

September	October	November	December
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6 7	1 2 3 4 5	1 2	1 2 3 4 5 6 7
8 9 10 11 12 13 14	6 7 8 9 10 11 12	3 4 5 6 7 8 9	8 9 10 11 12 13 14
15 16 17 18 19 20 21	13 14 15 16 17 18 19	10 11 12 13 14 15 16	15 16 17 18 19 20 21
22 23 24 25 26 27 28	20 21 22 23 24 25 26	17 18 19 20 21 22 23	22 23 24 25 26 27 28
29 30	27 28 29 30 31	24 25 26 27 28 29 30	29 30 31

## NOTES



