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Convocation and
Student Records

UTSC

1983 - 1984
Scarborough Calendar

**Calendar
1983-84**

University of Toronto Scarborough College

Calendar 1983-84

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

STEPHEN LEACOCK

Important Information

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.

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 38 and 39 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register in courses without their prerequisites or corequisites, and without the permission of the instructor, may be withdrawn from these courses after the beginning of classes.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prerequisite of a course is permission of its instructor, students who register in the course without permission may be withdrawn after the beginning of classes.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 237 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 24 of this Calendar.

Registration information and fees schedule

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 1982 Summer Session or the 1982-83 Winter Session should pick up registration information from the Registrar's Office in March or April. New students and students reactivating their enrolment after a year away will be mailed their registration material 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 1983-84 will be announced in the Registration Instructions. As a guideline, the following fees were charged for 1982-83; fees are expected to increase by about 5% for 1983-84. Full-time students taking the usual load of five courses incurred fees charges of about \$1150 (Canadian citizens or permanent residents) or about \$2800 (new visa students). These amounts included tuition fees and "incidental" fees for students' council, athletics, etc. Part-time students taking one full course incurred fees costs of about \$230* (for Canadian citizens or permanent residents) or approximately \$560 (for new visa students).

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Academic Calendar/Summer Session 1983

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).
May 13	Last day to register for Y, A, F and H courses.
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	Classes for Y, A, F and H courses begin.
May 20	Last day to add Y, A, F or H courses. Last day this term to transfer into a new Specialist, Major or College Programme.
May 23	Victoria Day. University closed.
June 10	Last day to withdraw from A or F courses.
June 24	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 27- June 30	Final examinations may be held in A and F courses on the St. George Campus. H and Y courses continue to meet.
June 30	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.
June 30	Last day to register for B and S courses.
July 1	Dominion/Canada Day. University closed.
July 4	Classes for B and S courses begin.
July 8	Last day to add B or S courses. Last day this term to transfer into a new Specialist, Major or College Programme.
July 15	Last day to request conferment of degree at the Fall Convocation.
July 22	Last day to withdraw from Y or H courses.
July 29	Last day to withdraw from B or S courses.
August 1	Civic holiday. University closed.
August 12	Last day of classes for Y, B, H and S courses on the St. George Campus and in the Scarborough Language Institute.
August 15- August 19	Final examinations in Y, B, H and S courses on the St. George and Erindale Campuses.
August 19	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 1983-84

1983

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 5	Labour Day. University closed.
September 12	Classes for Y, A, F and H courses begin.
September 23	Last day to add Y, A, F or H courses. Last day this term to transfer into a new Specialist, Major or College Programme.
October 10	Thanksgiving Day. University closed.
November 4	Last day to withdraw from F or A courses.
November 14	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 9	Last day of classes in the first term. Last day for submission of term assignments in F and A courses.
December 12- December 23	Term test and final examination period.

1984

January 2	Classes for B and S courses begin.
January 13	Last day to add B or S courses. Last day this term to transfer into a new Specialist, Major or College Programme.
February 10	Last day to withdraw from Y or H courses.
February 15	Last day to request conferment of degree at the June Convocation.
February 13- February 17	Reading Week - all classes cancelled.
February 24	Last day to withdraw from B or S courses.
March 12	Annual Examination Schedule published.
April 6	Last day of classes; no tests or examinations may be held until the beginning of the examination period.
	Last day for submission of term assignments for Y, H, B or S courses.
April 16- May 11	Final examination period.
April 20	Good Friday. University closed.
June 11	Spring Convocations begin.

Officers of the University of Toronto 1983-1984

Chancellor

G. Ignatieff, C.C., B.A., M.A., LL.D., D.C.L., D.LITT.S.

Chairman of the Governing Council

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President (to June 30, 1983)

J.M. Ham, O.C., B.A.Sc., S.M., SC.D.

(from Sept. 1, 1983)

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Vice-President and Provost

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Secretary of the Governing Council

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Associate Dean

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E.W. Dowler, M.A., PH.D.

Chairman, Division of Life Science

J.E. Grusec, B.A., PH.D.

Chairman, Division of Physical Sciences

R.C. Roeder, B.Sc., M.Sc., PH.D.

Chairman, Division of Social Sciences

R. Bryan, B.A., PH.D.

Registrar

G.E.L. Curri

Dean of Students in Residence

C. MacLeod, B.A., PH.D.

Librarian

J.L. Ball, M.A., DIP.LIB, A.L.A.

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Physics

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DIVISION OF SOCIAL SCIENCES

Anthropology

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 T.F.S. McFeat, B.A. (McGill), M.A., Ph.D. (Harvard), *Professor*
 C.E. Hopen, M.A. (Columbia), *Associate Professor*
 L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), *Associate Professor*
 H.B. Schroeder, B.A. (Penn. State), Ph.D. (Columbia), *Associate Professor*
 R.W. Shirley, M.A. (Stanford), Ph.D. (Columbia), *Associate Professor*
 M. Latta, B.A. (Kansas), M.A., Ph.D. (Toronto), *Assistant Professor*

Commerce

H. Babiak, B.Sc. (Econ.) (London), M.B.A. (Western), C.A., *Associate Professor*
 K. Ho, B.A. (Hong Kong), B. Comm. (Windsor), Ph.D. (Toronto), *Assistant Professor*
 T. Mitchell, B. Comm. (Carleton), M.M.Sc. (Ottawa), Ph.D. (York), *Assistant Professor*
 T. Litovitz, B. Comm. (Toronto), C.A., *Tutor*
 S. Lerman, B.A. (Toronto), M.B.A. (Chicago), C.A., *Special Lecturer*
 R. Malen, B.A. (McGill), M.A. (Northwestern), LL.B. (Toronto), *Special Lecturer*
 H. Mida, C.A. (Ontario), Ph.D. (Case Western Reserve University), *Special Lecturer*
 P. Taylor, B.A., M.B.A. (Toronto), LL.B. (Queen's), *Special Lecturer*
 I. Tod, B.Sc. (Queen's), LL.B. (British Columbia), *Special Lecturer*
 L. Wolfson, LL.B. (York), LL.M. (UBC) *Special Lecturer*
 D. Wood, B.A., (Western), M.B.A. (York), C.A. (Ontario), *Special Lecturer*

Economics

A. Berry, B.A. (Western), Ph.D. (Princeton), *Professor*
 D.E. Campbell, B.A. (Queen's), Ph.D. (Princeton), *Professor*
 J. Cohen, B.A. (Columbia), M.A., Ph.D. (California), *Professor*
 M. Gunderson, B.A. (Queen's), M.A., Ph.D. (Wisconsin), *Professor*
 D.E. Moggridge, B.A. (Toronto), M.A., Ph.D. (Cambridge), *Professor*
 M. Bucovetsky, B.A., M.A., Ph.D. (Toronto), *Associate Professor*
 S. K. Howson, B.A., M.Sc. (London), M.A., Ph.D. (Cambridge), *Associate Professor*
 M. Krashinsky, S.B. (M.I.T.), M. Phil., Ph.D. (Yale), *Associate Professor*
 I.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), *Associate Professor*
 R. Farmer, B.A., M.A., (Manchester), Ph.D. (Western), *Assistant Professor*
 N. Gallini, B.A., M.A. (Missouri), *Assistant Professor*
 W. Milne, B.A. (Victoria, B.C.), M.A. (Toronto), Ph.D. (Penn.), *Assistant Professor*
 A. Melino, B.A. (Toronto), Ph.D. (Harvard), *Lecturer*

R.S. Saunders, B.A. (Toronto), M.A., Ph.D. (Harvard), *Assistant Professor*

Geography

R.B. Bryan, B.A. (Dublin), Ph.D. (Sheffield), *Professor*
 B. Greenwood, B.Sc., Ph.D. (Bristol), *Professor*
 M.F. Bunce, B.A., Ph.D. (Sheffield), *Associate Professor*
 J.R. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc., Ph.D. (Toronto), *Associate Professor*
 A.G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), *Associate Professor*
 E. Relph, B.A., M. Phil. (London), Ph.D. (Toronto), *Associate Professor*

Political Science

S.J. Colman, M.A. (Oxon.), *Professor*
 T. Colton, B.A., M.A. (Toronto), Ph.D. (Harvard), *Professor*
 R. Manzer, B.Ed. (New Brun.), M.A. (Oxon.), Ph.D. (Harvard), *Professor*
 K.J.R. Sandbrook, B.A. (Carleton), M.A. (Toronto), D. Phil. (Sussex), *Professor*
 E.G. Andrew, B.A. (British Columbia), Ph.D. (London), *Associate Professor*
 R.S. Blair, M.A. (Glasgow), M.A. (Toronto), *Associate Professor*
 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. Rubinoff, 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.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*
 R. Baker, B.A., M.A. (Toronto), Ph.D. (Alberta), *Assistant Professor*
 J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), *Assistant Professor*
 M. MacKinnon, B.A., M.A., Ph.D. (York), *Assistant Professor*

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Admissions and Awards

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 12)
- 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, these courses will not be accepted.

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:

a three credits in Mathematics

b 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 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

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

Admission to the Summer Session Term I (beginning in May) - April 1

Admission to the Summer Session Term II (beginning in July) - May 15

Admission to the Winter Session Term I (beginning in Sept.) - June 30

Admission to the Winter Session Term II (beginning in Jan.) - November 15

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

Awards

Admission awards

Plumptre Admission Scholarship

Awarded to the Grade 13 student whose achievement in secondary school is considered to be the most outstanding. The scholarship is awarded in memory of Professor A.F. Wynne Plumptre, a former principal of Scarborough College.

Frederick A. Urquhart Admission Scholarships

Eight scholarships are awarded to students on the basis of exceptional academic achievement in Grade 13.

University of Toronto, Scarborough College Admission Scholarships

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

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

Scarborough College Alumni Admission Award

Awarded to a graduate of a Borough of Scarborough high school (public or separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications 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. All appropriate students with excellent academic standing are considered; no application is required.

A. D. Allen Scholarship

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

Vincent Bladen In-course Scholarships

A total of six scholarships are awarded on the basis of exceptional academic achievement at the completion of each year of study in the Humanities, Sciences or Social Sciences.

The Ali Tayyeb Scholarship

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

Scarborough College General In-course Scholarships

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

University of Toronto In-course Scholarships

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

Scarborough College Students' Council In-course Award

Three awards are made to students who have at least a B average or better and have contributed to the academic, social or cultural life of the College. Students must have three nominators for this award; one must be a member of the faculty; one must be a member of the student body.

Bladen Prize in Economics

Awarded on the basis of an essay submitted by a student specializing in Commerce or Economics on any subject covered by a B 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

To be awarded for the best essay in the area of Women's Studies.

Gordon Gilchrist 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.

Graduation prizes

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

The Governor General's Silver Medal

Awarded to the outstanding member of the graduating class, chosen from among the winners of the graduation prizes.

Graduation Prizes in Humanities, Life Sciences, Physical Sciences and Social Sciences

Awarded to the outstanding member of the graduating class in each of these four areas of scholarship. Recipients of three-year and four-year degrees are considered.

Ali Tayyeb Prize

Awarded to the outstanding member of the graduating class in Geography.

The Book Society Prize in Classical Studies

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

The Graduation Prize in Sociology

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

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

Graduation With High Distinction and With Distinction

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

Bursaries

University of Toronto Undergraduate Bursaries

Applicants for bursaries must demonstrate 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.

Academic Regulations

Student responsibility

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

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

Course selection

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 courses¹ 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 passed² another course shown in the course description as an exclusion to that course.
- 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.

Student responsibility

7 Students may not register for credit in a course which is a specific prerequisite³ 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 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.

Degree requirements

Three-year degree: new requirements

The following "new" requirements apply to all students who first registered at the College in the 1980 Summer Session or thereafter. To qualify for a three-year degree, such students must:

- 1 pass at least fifteen courses
- 2 among these fifteen courses, include no more than ten courses in any single discipline⁴
- 3 among these fifteen courses, pass at least eight B-level and/or C-level courses
- 4 complete the requirements of a Major Programme or a College Programme
- 5 earn a grade of C- or better in at least ten courses, including at least six B-level and/or C-level courses
- 6 earn a cumulative grade point average of at least 1.50

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

Three-year degree: old requirements

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

- 1 pass at least fifteen courses
- 2 among these, pass at least eight B-level and/or C-level courses
- 3 obtain a grade of C- or better in at least nine courses, including at least five B-level and/or C-level courses

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

Four-year degree: new requirements

The following "new" requirements apply to all students who first registered at the College in the 1980 Summer Session or thereafter. To qualify for a four-year degree, such students must:

- 1 pass at least twenty courses
- 2 among these, pass at least thirteen B-level and/or C-level courses
- 3 complete: (a) a Specialist Programme, or (b) two Major Programmes, or (c) a Major Programme and a College Programme
- 4 earn a grade of C- or better in at least fourteen courses, including at least ten B-level and/or C-level courses
- 5 earn a cumulative grade point average of at least 1.50
- 6 for a Bachelor of Science degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

Four-year degree: old requirements

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

- 1 pass at least twenty courses
- 2 among these, pass at least thirteen B-level and/or C-level courses
- 3 obtain a grade of C- or better in at least thirteen courses, including at least nine B-level and/or C-level courses
- 4 for a Bachelor of Science Degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

Courses in science for the B.Sc. degree

The following courses are considered to be courses in Science for purposes of determining eligibility for the Bachelor of Science degree.

- a All B-level and C-level courses in the following disciplines: Astronomy, Biological Science, Chemistry, Computer Science, Geology, Mathematics, Physics, Psychology and Statistics.⁵
- b The following courses in Anthropology: ANTB11, ANTB12, ANTB14, ANTB15, ANTB22, (ANTB25)⁶, ANTB26, ANTB27, ANTB29, (ANTB33), (ANTB36), ANTB39, ANTB40, ANTB43, ANTB44, ANTB47, ANTB48, ANTB52, ANTB53, (ANTC08), ANTC12, and ANTC36.
- c The following courses in Geography: GGRB02, GGRB03, GGRB07, GGRB15, (GGRB18), GGRB19, (GGRB21), GGRB24, GGRB25, GGRB29, GGRC05, (GGRC15), (GGRC23), GGRC24, GGRC25, GGRC28, GGRC30, GGRC32. In addition, GGRC01 may be used to fulfil the B.Sc. requirements for students researching in appropriate scientific areas of Geography.
- d The following joint courses: JBC, JMC, JMP, JPA, JPM courses and JLPB24 and JLPB55.
- e (QUAB02) and QUAC01.

NOTES

- 1 A Course. The word course is used in two ways. In reference to a single course, (such as "standing in a course" or "the last day to withdraw from a course") the word refers to a full course or half course. In reference to a given number of courses (such as the requirement of passing fifteen courses for a three-year degree), the word refers to a number of full courses, or the equivalent in full and half courses.
- 2 To Pass a Course. To pass a course means to obtain a grade of D- or better in that course (or "Credit" in a Credit/No Credit course).
- 3 A Specific Prerequisite. This rule does not apply in the case of non-specific prerequisites (such as "one B-level course in English") or in the case where one of two or more completely different courses may serve as prerequisite.
- 4 A discipline ("a branch of knowledge or of teaching" such as History or Physics or Sociology) is defined, for purposes of this regulation, as a subject area:
 - a in which courses are listed together in the same section of course descriptions in this Calendar, and
 - b whose courses share the same "discipline abbreviation" in the course code, e.g. HIS or PHY or SOC.Where students register in courses offered jointly by two disciplines (e.g. JBCB35 - a joint Biology and Chemistry course in Biochemistry), students may count the course in whichever discipline they wish.
- 5 "MAT" & "STA" courses, are considered to be courses in Science for purposes of determining eligibility for the B.Sc. degree. Other courses in statistical methods offered by various other disciplines may or may not count as courses in Science for purposes of this rule. Thus, for example, ANTB43, GGRB02, PSYB07 and PSYB08 are listed in the rule and may be counted as science courses; ECOB11, ECOB12 and SOCB06 may not.
- 6 Courses shown in parentheses are courses that were in the curriculum in previous years, but are no longer. These courses may be counted as Science courses for purposes of this rule.
- 7 Special students, that is students not proceeding towards a University of Toronto degree, need not satisfy this requirement.
- 8 A year of residence is defined as a 365 day period commencing on the first day of the term for which the student receives a record of course completion on the official transcript.

Programme requirements: new rules

These requirements apply to all degree students who first registered at the College in the 1980 Summer Session or thereafter.

Three-Year Degree

To meet the requirements of the Three-Year Degree, students must complete either a Major Programme or a College Programme.

Four-Year Degree

To meet the requirements of the four-year degree, students must complete a Specialist Programme, or two Major Programmes, or a Major and a College Programme.

Specialist Programmes

Specialist Programmes are designed to provide *depth and intensity of study within a limited area* — a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. (A list of Specialist Programmes may be found on p. 40.)

Major Programmes

Major Programmes are designed to provide *concentration* in an area of study — a discipline, a group of disciplines or a particular theme or area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses. (A list of Major Programmes may be found on p. 40.)

College Programmes

College Programmes are designed to provide an *organizing framework* for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three- or a four-year degree. (A list of College Programmes may be found on p. 40.)

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 on the Scarborough College Honours List (see page 15). Proposals should be made to the Associate Dean, who will convey them to the College Subcommittee on Academic Programmes.

They may be made at any time after the session in which students complete their fourth course. Proposals submitted before 15 July will be considered in time to enable students to register in their approved Programmes in the forthcoming Winter Session. However, they should be submitted earlier, if possible.

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.

Programme transfers

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

To register the transfer, students must submit to the Registrar's Office a "Registration change form", signed by the supervisor of the new Programme. This form must be submitted by the last date to add courses in any term.

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 early in each Summer and Winter 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:

- a 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);
- b accredit to Programme requirements, courses taken on other campuses of this University or at other Universities; and
- c 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.

Programme requirements: applicable to pre-1980 students

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

2 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.

- a 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.
- b In some cases curriculum restructuring has followed the redesign of Programmes. Students will therefore require advice on selection of new courses to meet the requirements of the old Programmes.
- c In cases where students choose to receive certification by completion of old Programmes, supervisors and students should record the Programme and course selection agreed upon so that problems will not arise when students become eligible to graduate and receive Programme certification. 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.

English proficiency requirement

The following requirement applies to all degree students⁷ who first registered at Scarborough College in the 1980 Summer Session or thereafter. Such students must demonstrate an appropriate level of proficiency in the use of the English language, as follows.

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

2 Students who fail the test must meet the English proficiency requirement within a two year residence period⁸ after their first attempting the test. They may do so either:

- a by passing the test at a subsequent sitting, or
- b by passing a designated course in English language skills. (These courses are described in an Appendix to this section of the Calendar.)

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

Standing in a course

Grading scheme

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

Grade Definition	Value	Point Percentage	Equivalent
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	
B-	2.7	70-72	Good
C+	2.3	67-69	
C	2.0	63-66	
C-	1.7	60-62	Adequate
D+	1.3	57-59	
D	1.0	53-56	
D-	0.7	50-52	Marginal
CR	No value		
E	0.3	35-49	Credit in a Credit-/No-credit course Inadequate
F	0.0	0-34	
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.

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

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

Overall standing

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.

b 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.

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.

Courses on other campuses

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

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.)

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.

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 Sub-Committee on Standing.

Study at other universities: Letters of permission

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).

Accountability for courses on Letter of permission

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

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:

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

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

Study at other universities: Study elsewhere year

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.)

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.

Degrees

A student may receive only one undergraduate Arts or Science degree from 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.

a Students who wish to graduate must notify the Office of the Registrar on a degree request form by 15 February for graduation at Spring Convocation or by 15 July for graduation at Fall Convocation. Where a student submits the degree request form late, every effort will be made to include the student's name on the graduation list, but there is no guarantee that this will be possible. If the student's name is added, a late fee of twenty-five dollars will be charged.

b Students who have elected to graduate after having completed a three-year degree may still choose to complete the requirements of the four-year degree; completion of the four-year degree requirements will be noted on the student's transcript. (Diplomas indicate only completion of a "Bachelor of Arts" or "Bachelor of Science" degree. No distinction is made on diplomas between three- and four-year degrees.) Students who have received a three-year degree, and wish to receive certification of completion of a four-year degree, should notify the Office of the Registrar by means of a degree request form.

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:

- a** Information to identify the student: full name, university student number, social insurance number, and date of birth.
- b** Admission information: basis of admission (e.g. Ontario Grade XIII, 85.0%) and a list of any courses completed at other universities for which the student was granted advanced standing credit.
- c** The student's academic record, listed chronologically by session. For each session, the transcript indicates:
 - i* each course attempted, its abbreviated title, and its grade;
 - ii* the sessional grade point average;
 - iii* the cumulative grade point average at the end of the session;
 - iv* the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, or refused further registration;
 - v* completion of degree and programme requirements, and date of conferral of the degree;
 - vi* any academic honours awarded: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

Ordering copies

Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a fee.

- a** Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.
- b** Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them and that it not pass through the student's hands.

Access to student records

- c Copies of transcripts given or sent directly to students bear a replica signature of the Registrar, but do not bear the official College seal and are marked "unofficial".
- d To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto".
- e There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

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:

- a whether a student is currently registered;
- b the student's address and telephone number;
- c 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:

- a to students who wish to see their own records;
- b to members of the University staff who demonstrate to the Registrar that they require access in order to perform their duties;
- c copies of student transcripts, and letters or oral reports based on other information, will be released on the written request of the student;
- d This information will otherwise be released only when required by law.

Withdrawal

Withdrawal from a course

- a Students may withdraw from courses up to the following deadlines:

Course Duration	1983 Summer Session	1983-84 Winter Session
Year long (Y, H)	22 July	Feb 10, 1984
1st term (F, A)	10 June	Nov 4, 1983
2nd term (S, B)	29 July	Feb 24, 1984

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

- b A student may effect withdrawal from a course by completing appropriately a "registration change form" and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.
- c Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the 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.
- d 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.

Students' access to their own records

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

Regulations governing special students

Grading practices policy

Withdrawal from the session

- a Students who wish to withdraw from the College for a given session do so by:
- withdrawing from all courses, in accordance with the procedures and deadlines above; and
 - completing the procedures outlined in (b) below.
- Where a student withdraws from the College after completing a first term course, the student retains credit for that course (or retains a failing grade). Where a student wishes to withdraw from the College before completing a course but after the deadline for withdrawal from that course, the student will not be permitted to withdraw from that course. That is, registration in the incomplete course will be shown on the academic transcript along with (presumably) a failing grade.
- b In addition to withdrawing from courses, students must complete the following procedures and submit a "Withdrawal clearance form" to show that they have done so:
- 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;
 - Surrender any laboratory locker and equipment; and
 - Surrender their student card.
- 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.)
- c Where students withdraw from the College and from all of their courses in the session, no record of registration and withdrawal is shown on their transcripts. (This policy became effective beginning with the 1978 Summer Session.)

"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.

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

- a 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.
- b To enter a petition, the student prepares a written statement:
 - i stating clearly the special consideration requested;
 - ii stating clearly the grounds upon which special consideration is requested, that is, the reason(s) why the student believes an exception to the rules is appropriate in this particular case; and
 - iii appending documents to evidence special circumstances: medical certificates, etc.
- c Students who wish to submit medical certificates in support of their petitions must ask their physician:
 - i to verify that the student was examined at the time of the illness;
 - ii to state briefly the nature of the illness;
 - iii to indicate the duration of the debility caused by the illness; and
 - iv to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her academic work on medical grounds.
- d Students are urged to seek the advice of a counsellor in the Student Services Office before entering a petition and in preparation of the petition.
- e Petitions are submitted to the sub-committee on standing through the Student Services Office.
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.
- f Students are notified in writing of the sub-committee's decision on their petition.
- g 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.

a Term work

i 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.

ii Special consideration at the end of term:

Where students' medical problems or other extenuating circumstances occur towards the end of the term, and where they must request extensions of time to submit term assignments or permission to write make-up term examinations after the "last day for submission of term work" (shown in the "Academic Calendar" section of this Calendar), students must submit a formal petition to the sub-committee on standing. See 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.

b Final examinations

i 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.

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

- a the student was examined at the time of illness; and

the student was incapable of attempting the examination at the scheduled time.

ii 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.

iv 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 v., 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 after receipt of students' statements of results.

v 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.

a 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.

b Final examinations

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

- i After the issue of their "statement of results" but within six months of the relevant examination period, students may request from the Office of the Registrar a photocopy of their final examination. A ten dollar fee is required at the time of the request.
- ii If students believe that an error has been made in the calculation of their examination mark, they may submit, through the Office of the Registrar, a request for a recheck of the calculation. This request must be entered within six months of the relevant examination period. If an error is discovered and the mark is changed, the copying fee will be refunded.

c Final grade

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.

d Note concerning failed courses

Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petition of marks in a course

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

a Term work

i 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.

ii 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.

iii 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.

b Final examinations

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

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

ii After students have seen the photocopy of their final examination but within six months of the relevant examination period, they may submit a petition to the sub-committee on standing to request re-reading of their final examination. The sub-committee will authorize a re-reading only where a student:—has articulated clear grounds for reconsideration of some part(s) of the examination, addressing the substance of the answer in relation to the mark given it, or otherwise identifying the nature of the alleged miscalculation;

—has demonstrated that the alleged miscalculation 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 undervalued substantially. If an error is discovered and the mark is changed, the copying fee will be refunded.

- c Where the sub-committee on standing authorizes re-reading of any examination or item of term work, it is the responsibility of the division offering the course to arrange the re-reading and to authorize any change in the grade. It has been the usual practice in the divisions to have examinations or term work re-read by the course instructor, unless some convincing argument is put forward by the student that the work be re-read by another member of the faculty.
- d 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.*
- e *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:

a Grading practices during the term

i 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.

ii 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.

iii 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.

b 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

- a 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.
- b 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 of the College. Full information may be obtained from that office.

The University of Toronto academic appeals board

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

Code of behaviour on academic matters

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

Academic offences

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

- a knowingly to use or possess unauthorized aids or obtain unauthorized assistance in any academic examination or term test or to use unauthorized aids or obtain unauthorized assistance in any other form of academic work;
- b knowingly to represent as that of the member in any academic work submitted for credit in a course or programme of study any idea or expression of an idea of another;
- c knowingly to submit for credit in any course or programme of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or programme of study in the University or elsewhere;
- d knowingly to submit for credit in any course or programme of study any academic work containing a purported statement of fact or reference to a source which has been concocted;
- e to forge or in any other way falsify any academic record of the University or of any academic division of the University or to forge or in any other way falsify any academic record of another educational institution used for the purposes of the University of Toronto, or to utter or make use of any such forged or falsified records;
- f to remove books or other library material from a University library without proper authorization, to wilfully mutilate library material or misplace it, or in any other way wilfully to deprive other members of the University of the opportunity to have access to library resources.

Sanctions

The following sanctions, listed in order of increasing severity, may be imposed by the University:

- a Caution;
- b Censure;
- c Assignment of a mark of zero in academic work submitted for credit;
- d Failure in or cancellation of credit for any course or other academic work in respect of which any offence was committed;
- e Suspension from attendance in all courses in which the student is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed and loss of credit for any course or courses which have not been completed or in which no grade or final evaluation has been registered at the time the offence was committed;
- f Suspension from the University for such period as may be determined by the University's disciplinary tribunal; or
- g 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).

Appendix: non-credit courses in writing skills

Students who begin their studies at Scarborough College in the 1980 Summer Session or thereafter will be required to complete the College's English proficiency requirement (see page 21 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 a weekly written assignment, 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 (20 hours)

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 (20 hours)

Programmes of Study and Course Descriptions

Course Key

The Course Code

1 The Discipline Abbreviation

The first three letters of the course code indicate, in an abbreviated form, the discipline or subject area of the course.

ANTA01Y "ANT" indicates a course in Anthropology
CHMB05Y "CHM" indicates a course in Chemistry

PHLC87S "PHL" indicates a course in Philosophy

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

JCEB72S indicates a course offered jointly by Commerce and Economics.

2 The Course Level

The fourth letter of the course code indicates the level of the course.

A level courses Introductory or elementary courses

B level courses Intermediate level courses

C level courses Advanced courses

3 The Course Number

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

4 Credit Value and Duration of a Course

The final letter of the course code indicates the credit value and duration of a course as follows:

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

Hence, ANTA01Y is an introductory course in Anthropology taught throughout the session and worth a full course credit. PHLC87S is an advanced course in Philosophy taught only in the second term and worth one-half a course credit.

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

Exclusions, Prerequisites and Corequisites

Exclusions

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

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.

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.

Exclusions, Prerequisites and Corequisites in Parentheses

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

Supervised Reading, Supervised Research and Independent Study Courses

1 Supervised Reading Courses

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

2 Supervised Research Courses

Students in supervised research courses usually work under the direction of a faculty member with whom they meet periodically or in whose laboratory they work. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering supervised research courses.

3 Independent Study Courses

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

Programmes

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

Specialist Programmes

Anthropology*
Arts
Astronomy & Physics
Biology
Canadian Studies
Chemistry
Chemistry & Biochemistry
Chemical Physics
Commerce
Commerce & Economics
Computer Science
Computer Science for Data Management
Cooperative Programme in Administration
Drama
Economics
Economics & Quantitative Methods
Economics & Mathematics
Economics & Political Science
English*
Fine Art History*
Fine Art Studio
French
Geography
German Area Studies
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*
Astronomy & Physics
Biochemistry
Biology
Chemistry
Classical Civilization
Classical Studies
Commerce*
Computer Science
Drama
Economics*
English*
Fine Art History*
Fine Art Studio*
French Language*
French Language & Literature*
Geography
German Language
German Language & Literature
History*
Italian Language
Italian Language & Literature
Linguistics
Mathematics
Medieval Civilization
Microbiology & Biochemistry
Music
Neurosciences
Philosophy*
Physics
Political Science*
Psychology*
Quaternary Studies
Renaissance Studies
Russian Language & Literature
Society, Values & Medicine
Sociology*
Spanish Language
Spanish Language & Literature
Women's Studies

College Programmes

Canadian Studies
Development Studies
History of Ideas
Humanities
Myth & Religion
Russian & Related Studies

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

Anthropology

Assistant Chairman: L. Sawchuk

Anthropology is the study (or science) of humankind, dealing with the origin, development and nature of humans and their culture. As such it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, as part of complex civilizations and in relatively small-scale non-literate societies. From this vantage point Anthropology attempts to arrive at an understanding of the common factors underlying human existence and to isolate the causes that have led and continue to lead to social and cultural change (and to differences between peoples and cultures).

Because of the vastness of its subject matter, Anthropology is traditionally divided into four sub-fields: Social-Cultural Anthropology, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three only, with occasional offerings in the last. 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: M. Latta (284-3153)

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: M. Latta (284-3153)

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

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

- 1 ANTA01Y Introduction to Anthropology
- 2 One course from among the following:
ANTB15Y Biological Anthropology
ANTB20Y Introduction to Social Organization
ANTB26Y Introduction to Prehistoric Archaeology
- 3 Four additional full-course equivalents from B- or C- level courses in Anthropology. Students are required to consult with the Supervisor regarding course selections and requirements and are strongly urged to take at least seven full-course equivalents in disciplines other than Anthropology within the three-year degree programme.

ANTA01Y Introduction to Anthropology
An introduction to the fields of anthropology through which the student will obtain the anthropological view of the nature and diversity of humans. The first term deals with Physical Anthropology and Prehistoric Archaeology, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term concerns historic archaeology, the nature of language and the comparative aspects of Cultural Anthropology, through a study of social groups as well as economic, political and religious systems in both non-industrial and industrial societies. Lectures and tutorials.
Session: Winter Day, ~~Winter Evening~~, Summer Day
L. Sawchuk

ANTB01Y Ecological Anthropology
The interrelationship of human populations with their environment, particularly as reflected in differences in technology, socio-political organization, and ideology. Emphasis will be placed on the view which sees variability in human behaviour as the product of adaption and evolutionary change.
Exclusion: (ANTB10)
Prerequisite: ANTA01
Session: Winter Day
H.B. Schroeder

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: Summer Day, Winter Day ~~Evening~~
C. Hopew

ANTB03F The Americas: An Anthropological Perspective
The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact.
Special emphasis will be placed on social dynamics and focus on Latin America.
Session: Winter Day
R.W. Shirley

ANTB07S Comparative Slavery
An examination of slavery as an institution in several areas of the world, including Brazil, Africa, the Caribbean, and the United States. An effort will be made to examine the modern consequences of slavery as well.
Prerequisite: ANTA01
Session: Winter Day
R.W. Shirley

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

NTB15Y Biological Anthropology
Survey of the human place in nature: origin (fall) and ongoing evolution (Spring). Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with methods and materials utilized by the physical Anthropologist.
Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behaviour of non-human primates, taxonomy and classification, paleontological principles and human origins.
Prerequisite: ANTA01 or ANTB14 or Permission of Instructor
Session: Winter Day
D. Burton

NTB19F Economic Anthropology
Consideration of comparative economic systems in ecological and adaptive perspective, and 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 Day

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

Twentieth Century Canada marks the regrowth of native culture with the appearance of new societies on trap lines and reserves, the formation of co-operatives, the acquisition of technical skills, unique art forms and a living literature. The pan-Indian movement, and the emergence of the Inuit, Dene, Metis, and other ethnic groups, together disclose both a new identity and a new mosaic.
Session: Winter Day
T. McFeat

ANTB22Y Primate Behaviour
A general review of primate behaviour in its ecological setting.

Humankind represents only a tiny portion of the Order Primates. The interest in our own species has generated a proliferation of studies on the other members of this Order. The anthropological bias in such studies is clearly to gain a perspective on human evolution by assessing processes of adaptation. This purpose is served by examining the systematics, distribution, social behaviour and ecological relationships over the array of non-human primate forms. Three hours of lecture per week. The two hour block permits zoo visits and films. A long paper topic is selected early in the year (it may be a library work or original research at the zoo).
Prerequisite: ANTA01 or PSYA01 or BIOA03
Session: Winter Day
F.D. Burton

ANTB23Y Comparative Mythology

The nature of myth from the viewpoints of Anthropology, Folklore, Philosophy, Linguistics, Psychology and Comparative Religion. The main emphasis is on the nature of oral narrative in small scale societies, but the generation of myth in myth in modern society is also considered.

Consideration of various theories of myth and the part it plays in society. The issues of the relationship between myth and other narrative forms, between myth and ritual, myth and thought, and myth and society will be explored. The political context and implications of myth are also discussed. Examples are drawn from a wide range of societies, including African, American Indian, Classical and Near Eastern, and the modern world. Two one-hour lectures and one one-hour discussion session per week.
Session: Winter Evening *Cancelled*

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 Evening
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 Day
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

ANTB44Y Physiological Anthropology

Physiological principles and systems, ecological principles and systems, and the interrelationship of these two areas. This course is designed to give the student an understanding of physiology in its ecological setting, i.e. physiological Anthropology. An anthropological approach to physiology involves considerable attention to evolutionary schemes and comparative physiology.

Specific topics include: introduction to basic physiology, physiological systems (reproduction, vision, etc.), physiological systems in adaptation (cold, heat, altitude adaptations, etc.), ecological concepts and analysis (food chains, trophic levels, etc.).
Prerequisite: ANTA01 or BIOA03
Session: Winter Day

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 environ-

ments in daycare centres, kindergartens, informal organizations of park play, street games, club games and the like.

Essay each term

Two-hour exam

Each contribution at 1/3 total.

Prerequisite: ANTA01 or Permission of Instructor
Session: Winter Evening
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 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

ANTB50F Fact and Fiction In Anthropology

The merits of explanatory and other formulations concerning human prehistory. The course will consider proposals by popularizers of our prehistoric past such as E. von Daniken, R. Ardrey, D. Morris and T. Heyerdahl and the contributions of archeologists F. Bordes, L. Binford, K. Flannery and others regarding critical issues in prehistoric cultural development. Topics of investigation include ancient migration and diffusion on a large scale; the nature and origins of megaliths, mounds, and other monumental structures; and the reconstruction of prehistoric societies and activities, in both specific and general terms.

Prerequisite: ANTA01
Session: Winter Day

ANTB52A Field Methods in Archaeology

A consideration of the practice of archaeology, special techniques and problems, with intensive experience in an actual site situation.

The course will be offered during the summer. Since it will be necessary for students to live within commuting distance of the site, interested individuals should contact the instructor for details and arrangements. These six weeks of full-time excavation will be carried on with lectures and field trips to provide further insights into the use of archaeology as a tool in historical reconstruction and interpretation. Limited enrolment: 25.

Prerequisite: ANTA01, ANTB26; HISB04 recommended as well
Session: Summer Day
M. Latta

ANTC03F and C04S Directed Reading in Anthropology

A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individual tutorials, as arranged. Prerequisite: Permission of Instructor
Session: Winter Day, Winter Evening, Summer Evening

Members of Faculty

ANTC09Y The Anthropology of Humour

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

Collected data should yield information on comparative value systems. While examples and illustrations may be drawn from the Western World, most of the research will be concentrated on the "Third" World. Data are scattered, but information will be sought in fiction, fables, myths, plays and other sources. Students are expected to become familiar with literature from unfamiliar areas. Seminar: one two-hour session per week. Limited enrolment: 15.

Prerequisite: Any two of the following courses: ANTB02; ANTB20; ANTB22; ANTB24
Session: Winter Day
C. Hopen

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

ANTC17Y Theory and Methodology in Social/Cultural Anthropology

An overview of the history of ethnological thought, focusing on certain key theoretical debates which run through it and largely determine the "state of the art" today.

Evolutionary, diffusionist, psychological, cross-cultural, functionalist, structuralist, and hermeneutical approaches will be considered through selected writings from such major figures as Tylor, Durkheim, Boas, Kroeber, Malinowski, Radcliffe-Brown, and Levi-Strauss. An attempt will be made to understand these individuals in terms of the social and intellectual climates in which they wrote.

Exclusion: (ANTC16)

Prerequisite: ANTA01 and ANTB20 or Permission of Instructor

Session: Winter Day

ANTC28S The Prehistoric Archaeology of Canada

A survey of the varied concerns of Canadian archaeologists and the development of the science of Archaeology in Canada. An attempt to understand the significance of Canadian prehistory for modern Canadian social and cultural developments.

Exclusion: (ANTB28)

Prerequisite: ANTB38

Session: Winter Evening

M. Latta

ANTC29Y Analysis of Archaeological Material

An in-depth examination of two major classes of material culture: ceramics and lithics. Students will develop analytical skills through construction and study of artifacts in order to evaluate materials, construction principles and function of tools in prehistoric and contemporary contexts.

Exclusion: (ANTB29)

Prerequisite: Any B-level course in Archaeology

Session: Winter Day

M. Latta

ANTC45F Biomedical Anthropology

This course is designed for advanced students seeking an intensive examination of specific problems in medical Anthropology.

Problems to be discussed include: genetic disorders in families and populations, the interaction of malnutrition and infectious diseases in human populations, chronic non-infectious diseases in populations today, and epidemiology and medical anthropology as complementary disciplines. Laboratory sessions will cover: methods of data collection and analysis, problem sets in medical genetics, karyotyping, the use of genetic markers in biomedical anthropology and the life table and the analysis of cause-specific mortality over time.

Two hours of lectures and one three-hour laboratory session per week.

Prerequisite: ANTB51 and BIOA03; (ANTB39, and ANTB43 or STAB52 or PSYB07 are recommended)

Session: Winter Day

L. Sawchuk

Courses Not Offered in 1983-84

ANTA03Y Cultures in the Modern World

Exclusion: ANTA01

ANTB05S Social Anthropological Study of Africa

Prerequisite: ANTA01

ANTB11F Human Behaviour in the Stone Age

Prerequisite: ANTA01 (ANTB26 is recommended)

ANTB12S The Rise of Civilization

Prerequisite: ANTA01 (ANTB26 is recommended)

ANTB16S The Cultures of Modern Canada

ANTB17F Complex Societies

Prerequisite: ANTA01

ANTB24Y The Organization of Group Cultures

Corequisite: ANTA01 a course in Sociology or Geography or Psychology or Permission of Instructor

ANTB30Y Language and Culture

Corequisite: ANTB26

ANTB32F Political Anthropology

Prerequisite: ANTA01

ANTB39Y Human Diversity

Prerequisite: ANTA01; ANTB15 is recommended

ANTB40F/S

Anthropological Demography

Prerequisite: ANTA01; ANTB15 is recommended

ANTB41S

Pre-Industrial Technology

Prerequisite: ANTA01

ANTB43S

Quantitative Methods in Anthropology

Exclusion: ECOB11; PSYB07

Prerequisite: ANTA01; ANTB15 and ANTB26 are recommended

ANTB48S

Human Odontology

Prerequisite: ANTA01 or BIOA03; ANTB14 and ANTB15 are recommended

ANTB49S

Law and Society

Prerequisite: ANTA01 or Permission of Instructor

ANTB51Y

Medical Anthropology

Prerequisite: ANTA01

ANTB53Y

Classification and Material Culture

Prerequisite: ANTB26

ANTB54Y

The Anthropology of Sex

Prerequisite: None, although an introductory course in Anthropology and/or Biology would be beneficial

ANTB55Y

Cultures of the Middle East and the Islamic World

Prerequisite: none - it is recommended that students have completed one A-level course in the Social Sciences or Humanities.

ANTC02F

Systems of Thought

Prerequisite: At least one B-level course in social Anthropology

ANTC11Y

The Anthropology of Women

Prerequisite: One B-level course in the Social Sciences or Humanities

ANTC12F

Research on the Social Behaviour of Non-Human Primates

Prerequisite: ANTB22 or Permission of Instructor

ANTC15F

Frontiers of Anthropology

Prerequisite: ANTA01 and one B-level course in Anthropology

ANTC27Y

Advanced Archaeological Methods: Data Description and Presentation

Exclusion: (ANTB27)

Prerequisite: ANTB26

ANTC42Y

Native People of Canada

Exclusion: (ANTB42)

Prerequisite: ANTA01; and one B-level Anthropology course or Permission of Instructor

ANTC43Y

Anthropology of Race

Prerequisite: ANTB15

ANTC44F

Background to Modern Archaeology

Exclusion: (ANTB13)

Prerequisite: Any B-level course in Archaeology

ANTC46F

Ethnomedicine

Prerequisite: ANTB51

ANTC04Y

Arts

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 would 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)

Astronomy

Discipline Representative: P.P. Kronberg

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically man's attempt to gain an understanding of his place in the Universe, ranging from the planetary system in which he lives to the most distant galaxies and quasars which can be seen only as they were before men walked this earth. Within the past ten years have come astronomical observations which suggest the explosive "Big Bang" origin of the entire Universe and the presence of hitherto unsuspected complex molecules in the interstellar medium of our galaxy. The implications of these and other astronomical discoveries for man and his world are profound.

The full range of astronomical topics is covered at an introductory level in ASTA02 (for science students) and ASTA03 (for non-science students) while selected astrophysical topics are dealt with at a more advanced level in ASTB01 and ASTC01. JPAC10 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

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

Specialist Programme in Astronomy and Physics

Supervisor: P.P. Kronberg (284-3378) and J.D. King (284-3318)

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

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

...a student will be in a position to consider the study of astronomy at the research level. There are fifteen and one-half full-course credits prescribed. Students are advised to select their other courses after consultation with the Supervisor, particularly at the fourth year level, where there is some degree of choice depending on the student's future plans. Particularly recommended is a half course in Computer Science.

First year:

PHYA03Y Physics for the Physical and Life Sciences

MATA02Y

Calculus

MATA26Y

Calculus with Analysis
Introductory Astronomy and Astrophysics

Second year:

PHYB01S Electricity and Magnetism I

PHYB03F Introductory Electronics

PHYB04F Waves

PHYB19S Thermal Physics

PHYB17S Introduction to Quantum Physics I

PHYB18F Special Relativity

PHYB02H Practical Astronomy

PHYB41F Techniques of the Calculus of

Several Variables I

PHYB42S Techniques of the Calculus of

Several Variables II

Third year:

PHYB50F Analysis I

PHYB55S Analysis II

Fourth year:

PHYC01F Quantum Physics II

PHYC42S Advanced Classical Mechanics

PHYC03F Electromagnetic Fields

PHYC51F Differential Equations I

PHYC60F Complex Analysis I

PHYB01Y Topics in Astrophysics: Origin and Evolution

PHYC04S Physics of Solid State Devices

Fifth year:

PHYC10Y Relativity and Cosmology

PHYC01H Research Topic in Astronomy

PHYC420Y Astrophysics

PHYC335H Introduction to Nuclear Physics

Sixth year:

PHYC37H Elementary Particle Physics

PHYC456Y

Modern Optics and Radiation

PHYC450Y Quantum Theory

PHYC451Y Statistical Mechanics

PHYC454Y High Energy Physics

Major Programme in Astronomy and Physics

Supervisor: R.C. Roeder (284-3289)

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

First year:

PHYA03Y Physics for the Physical and Life Sciences

(PHYA02Y)

MATA26Y Calculus

or

MATA55Y Calculus with Analysis

ASTA02Y Introductory Astronomy and Astrophysics

Second year:

PHYB01S Electricity and Magnetism I

PHYB04F Waves

PHYB17S Introduction to Quantum Physics I

PHYB18F Practical Astronomy

ASTB02H Techniques of the Calculus of

Several Variables I

MATB41F Techniques of the Calculus of

Several Variables II

or

MATB50F Analysis I

MATB55S Analysis II

Third year: ASTB01Y Topics in Astrophysics

One additional full-course equivalent from

PHYB19S, B18F, C01F, C03F, ASTC01H

ASTA02Y Astronomy and Astrophysics: An Introduction

In this modern look at the Universe an appreciation of the techniques and implications of astronomical observations is developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the distant reaches of quasars; from the wasteland of interstellar space to the nuclear inferno deep in a stellar interior; from the quiet life of a star like the sun to its often cataclysmic demise; from the tranquillity of an interstellar dust cloud to the frenzied environs of a pulsar, an X-ray source or a black hole. Completion of this course should better equip one to assess the importance of forthcoming developments in the advancement of knowledge of the Universe and to contemplate such questions as life on other worlds. Instruction in the use of the telescopes, cameras and darkroom equipment is provided for all interested students, whether their ultimate purpose is carrying out a term project or merely extracurricular star-gazing. 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

ASTB01Y Topics in Astrophysics; Origin and Evolution of Stellar and Galactic Systems

Theories and observational evidence related to the origin and subsequent evolution of astronomical objects. The course will consist of five topics — the origin and evolution of the universe as a whole, of the galaxies, of the stars, and of the solar system, and a study of the conditions for and possibilities of other life in our Galaxy.

Students are given a comprehensive introduction, using elementary mathematics and physics, to the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the basis of knowledge thus gained the possibility of extrasolar planetary systems is discussed; the question of the origin of life is considered in the context of recent discoveries of complex molecules in the interstellar medium. Two lectures and one tutorial per week.

Prerequisite: PHYA03 (or PHYA02); MATA26 or MATA55 and ASTA02Y

Session: Winter Day

ASTB02H Practical Astronomy

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

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

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

Prerequisite: ASTA02 or ASTA03; PHYA03

(PHYA02); MATA26 or MATA55

Session: Winter Day

P.G. Martin

ASTB03S Great Moments in Astronomy

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

The course is intended primarily for students in Physical Science who, in their second or other years, wish to acquire an understanding of the origins and significance of our present world view. A term paper dealing in detail with an aspect of one of the topics is required.

Prerequisite: 4 full-course equivalents

Session: Winter Evening

C. Roeder

ASTB04F Qualitative Cosmology

An introduction to theoretical and observational cosmology, the study of the universe, oriented to students who are not majoring in the Physical Sciences. Questions related to the uniqueness of the universe are discussed within a framework provided by a synopsis of the theory of relativity and its models of the universe. The concept of horizons is introduced. Both the earliest moments and the possible future development of the universe are described, with emphasis on the implications of present observational data.

Exclusions: ASTA02Y, JPAC10Y,

Prerequisite: ASTA03Y, or ASTB03S

Session: Winter Evening

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 Kronberg, Martin, or Roeder. The bibliography is dependent upon the topic selected. Prerequisite: ASTA02 or ASTB01; PHYB01; permission of instructor

Session: Winter Day

C.C. Dyer, P.P. Kronberg, P.G. Martin, R.C. Roeder

Courses Not Offered in 1983-1984

JPAC10Y Relativity and Cosmology

ASTB01Y

ASTB04F

Biological Sciences

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: I. Brown (284-3213). NALEWASKO (284-3216)
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 1983-84 Calendar). For a list of courses approved for this purpose, consult the Life Sciences Divisional Office.

4 Three courses in cognate disciplines:

- a CHMA02Y
- b PHYA02Y or PHYA03Y
- c Any one of the following: (MATA22Y, MATA26Y, or MATA27Y or MATA55Y)
One course from each of the above groups must be taken.

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

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

Students are referred also to the following Programmes: Specialist Programme in Chemistry and Biochemistry (listed under Chemistry); Quaternary Studies; 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 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); 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 |
- taking CHMB03Y as an option (see below)
BIOA03Y 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:

- | | |
|---------|----------------------------------|
| BIOB35Y | Introductory Biochemistry |
| BIOB36H | 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 |
| **BOT406H | Mycology Applied to Public Health |
- 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.

Exclusion: Not open to students who are taking NSCA02

Session: Winter Day
The Faculty

BIOB02Y Basic Microbiology

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

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

Prerequisite: BIOA03
Session: Winter Day
J. Silver

BIOB05Y Genetics

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

Mendel's principles, linkage, mapping, assignment of genes to chromosomes, structure of gene, genetic control of protein synthesis, regulation of gene activity, chromosome struc-

ture, mutation, cytoplasmic inheritance. Lectures, laboratory, work problems, discussion.

Prerequisite: BIOA03

Session: Winter Day

M.F. Filosa

BIOB06Y Plant Physiology

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

The green plant as a functional organism; water and salt uptake and translocation, water loss; mineral nutrition, carbohydrate, protein and lipid metabolism. Enzymology. Photosynthesis and respiration. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work.

Prerequisite: BIOA03

Session: Winter Day

G.F. Israelstam

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,

cession and climax; concept of the ecosystem; biomes of the world; community energetics; community nutrition; other topics of general biological interest including the human population problem, island biogeography, and census analysis.

Prerequisite: BIOA03

Session: Winter Day

BIOB17Y General and Comparative Physiology

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 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,apses and integration, muscle and neuromuscular systems, sense receptors and hormones. Lectures and laboratory work.

Prerequisite: BIOA03

Session: Winter Day

T. Govind

BIOB19S Biology of Macromolecules

The basic concepts of the molecular biology of genes - 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.

Prerequisite: BIOA03

Session: Winter Day

T. Brown

BIOB20F Cell Ultrastructure

A course dealing with current concepts of animal and plant cell ultrastructure and specifically with basic structure, development, and function of cell organelles. Laboratory work emphasizes interpretation of cell components as they appear in electron micrographs.

Topics include: (i) methods used in the biological application of electron microscopy; (ii) cell membranes and cell surfaces; (iii) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc. Lectures and laboratories.

Prerequisite: BIOB13 or BIOB24 or BIOB27

Session: Winter Day

R. Dengler

BIOB22Y Comparative Vertebrate Morphogenesis

A lecture and laboratory course dealing with the structural diversity of the vertebrates. Emphasis is placed on the evolution, development and anatomical specializations of organ systems as they are related to the physical demands placed upon the organism by its environment.

Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to the anatomical and physiological diversity of the modern vertebrates, are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories.

Prerequisite: BIOA03

Session: Winter Day (Labs) Evening (Lecture)

BIOB23Y Developmental Biology

The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a wide variety of organisms ranging from the unicellular to the multicellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development.

In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed - erythropoiesis, lens development, spermatogenesis, myogenesis, frog metamorphosis and carcinogenesis. In the last half of the second term R. Dengler discusses aspects of plant development. Some of the topics dealt with in this portion of the course are - comparison of developmental mechanisms in plants and animals, morphogenesis of fertilized eggs in primitive and advanced plants, and the role of cell division and cell enlargement in the development of form. Lectures and laboratory work.

Prerequisite: BIOA03

Session: Winter Day

I.R. Brown and R. Dengler

BIOB24Y Plant Kingdom

Evolutionary relationships between the major groups of plants are examined through a comparison of vegetative form, reproductive structures and life histories of selected living and fossil organisms.

The first term deals with the comparative morphology of the nonvascular plants - fungi, algae, lichens and bryophytes. The second term covers the vascular plants - club mosses, spike mosses, quill worts, horsetails, ferns, gymnosperms and angiosperms. Particular emphasis is given to the algae, fungi and seed plants.

Session: Winter Day

R. Dengler

BIOB31F Invertebrate Neurobiology

An examination in lectures, seminars and laboratory work, of current topics on invertebrate neurobiology. These topics will revolve around the neural synaptic and muscular mechanisms underlying certain *simple* behaviours and their development especially in insects, crustaceans and molluscs.

One two-hour lecture per week; seminars and laboratory work to be arranged with class.

Prerequisite: BIOA03

Session: Winter Day

C.K. Govind

JBCB35Y Introductory Biochemistry

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

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

The teaching method will consist of two one-hour lectures per week. The text used is:

Biochemistry 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.

Prerequisite: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

J. Gurd

BIOB43Y General Vertebrate Biology

An integrative course on the vertebrates emphasizing comparative, evolutionary and physiological approaches, and centering attention on the life cycle as the evolving and dynamic unit of study. Topics will include evolution, adaptation, diversity, zoogeography, comparative functional morphology and physiology; ethology, ecology and general biology; utilization, conservation, management. Course will consist of seminars, laboratories and some lectures on selected topics.

Prerequisite: BIOA03; BIOB22, (BIOB17, BIOB11, BIOB12, BIOB27 useful but not required)

Session: Winter Day

A. Weatherley

BIOB48F Bacterial Physiology and Ecology

A lecture and laboratory course dealing for the most part with bacterial physiology and ecology. Emphasis is placed on molecular mechanisms of regulation and of adaptation to environmental factors such as temperature, salinity and availability of nutrients. The biochemical bases of nitrogen-fixation, sporulation and chemotaxis are discussed. Laboratory exercises are research-oriented experiments involving the use of radioisotopes, antibiotics and gel electrophoresis. Limited enrolment: 25.

Prerequisite: BIOB02

Exclusion: (BIOB41)

Session: Winter Day

J. Silver

BIOB49S Biology of Algae

Lecture and laboratory course on the algae, 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; biology of photosynthesis; light,

temperature, nutrients and growth; mechanisms of adaptation to adverse environments; osmoregulation; and heterotrophy.

Prerequisite: BIOA03

Exclusion: (BIOB41)

Session: Winter Day

C. Nalewajko (Sparling)

BIOB01Y 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

BIOB02Y Directed Research in Biology

Identical to BIOB01Y 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

BIOB05S Advanced Genetics

Lecture and seminar course in genetics that deals in some depth with three or four topics in the area of genetics. Such topics as cytogenetics, chromosome structure, mitochondrial genetics, immunogenetics, recombination, genetic manipulation, developmental genetics, and social and ethical implications of genetics will be among those considered for discussion.

Limited enrolment: 10

Prerequisite: BIOB05Y

Session: Winter Day; alternate years starting

Spring, 1984.

BIOC10S Phytoplankton - Methods and Techniques

A seminar course with laboratory and field work, on phytoplankton taxonomy and on practical aspects of sampling, identification and enumeration of phytoplankton.

Principles of phytoplankton taxonomy. Isolation of unialgal and axenic cultures of algae. Parameters for estimation of phytoplankton populations. Spatial heterogeneity, and seasonal succession of phytoplankton in (a) the Great Lakes (b) a lake in Southern Ontario. One five hour session per week. Formal lectures are de-emphasized, while laboratory work and seminars are stressed. Reading material consists almost exclusively of papers from scientific journals. Most of these are available from the reserve room in the library.

The objectives are to gain practical experience in phytoplankton ecology and in the sampling, identification and enumeration of planktonic algae. This is an advanced and graduate level course, for students with background in physiology and ecology of algae. Dr. M. Munawar, research scientist at Canada Centre for Inland Waters, Burlington, participates in this course.

Prerequisite: BIOB15

Session: Winter Day

C. Nalewajko (Sparling)

BIOC11Y Quaternary Plant Ecology

An examination of the methodology, results and implications of pollen megafossil and other analyses of Quaternary sediments from the major regions of the world. Lectures, seminars and a laboratory with field work. Given in alternate years.

The history of the plant cover of the earth during the past several millennia, as reconstructed from pollen, seed and other primarily botanical evidence preserved in lake sediments, bogs, etc. From this factual record of vegetation change and development during and since the ice ages, environmental reconstructions will be attempted based on understanding of modern ecology.

Prerequisite: BIOB12; QUAA03 (NSCA03)

Session: Winter Day

J.C. Ritchie

BIOC12H Physiology and Biochemistry of Plant Growth and Development

A lecture and seminar course in plant growth and development. Emphasis will be placed on the mechanisms controlling growth and development. Limited enrolment: 12

The plant growth hormones and their mechanism of action, germination, dormancy, senescence, tropic responses, growth mechanisms, correlation effects, flowering, fruiting. Biological clock mechanisms. It is hoped to provide an in-depth understanding and to review critically the processes of growth and development in plants. It should acquaint the student with current literature on the subject, via "library research", providing a sound basis for possible future research in this field. Lectures and seminars.

Prerequisite: BIOB06

Corequisite: JBCB35 recommended

Session: Winter Day

G.F. Israelstam

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

BIOC17F Marine Biology: Nutrients and Productivity

Nutrients, phytoplankton and primary production in marine ecosystems. An advanced lecture course for students with a background in aquatic ecology.

Prerequisite: BIOB15 or BIOB12

Session: Winter Day

C. Nalewajko (Sparling)

Courses Not Offered in 1983-84

BIOB08Y Invertebrate Zoology
Prerequisite: BIOA03Y

BIOB13Y Plant Structure and Development
BIOB15Y Aquatic Systems

Prerequisite: BIOA03Y and at least one B-level Biology course.

BIOB27Y Comparative Vertebrate Histology
BIOB47Y Plant Ecology

Prerequisite: BIOB12

BIOC09F Field Course in Aquatic Biology
Prerequisite: BIOA03Y; BIOB15Y; permission of instructors

BIOC14F Ecological Methods
Prerequisite: BIOB12Y and an introductory statistics course such as PSYB07, STAB52, GGRB02, ANTB43, ECOB11, or the permission of the instructor.

BIOC16S Marine Biology: Habitats and Communities
Prerequisite: BIOB08Y

Canadian Studies

The College offers a large number of courses concerned with Canadian institutions, society, 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 the disciplines to the study of Canadian life and culture.

Specialist Programme in Canadian Studies

Supervisor: T. McFeat (284-3252)

The 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 scope 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

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

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

At least one of:

FREB36F/S French-Canadian Novel to 1945
FREB37F/S French-Canadian Novel since 1945

FREB38F/S

FREB43F/S

HISB42Y

Theatre of French Canada
French Language in Canada
French Canada: Origins to Present

- 4 Six additional full course equivalents, approved by the supervisor of studies, in advance, from the following list. The student should plan to take not fewer than three full course equivalents from one group, not fewer than two full course equivalents from a second group, and at least one full course equivalent from a remaining group.
- 5 At least one additional full course equivalent at the C-level with Canadian content in a discipline in which the student has done the required preparatory work at the B-level. This may include supervised reading courses, as noted below.

Final Year

- 6 During the final year of study, the Specialist candidate's programme must include the following two half courses:
CASC01F Interdisciplinary Seminar
CASC02S Independent Study
The content of each course will depend upon the needs and special interests of current Specialist candidates and will be determined anew each year. The Interdisciplinary Seminar will normally require as prerequisites a minimum of three courses at the B-level in one discipline relevant to the subject of the Seminar.

Courses with Canadian Content

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

Group 1: The Land

Courses dealing with the Canadian physical environment:
GGRB01Y Geography of Resources
GGRC34F Landscape Interpretation
Biosystems studies featuring Canadian data and field trips:
NSCA02Y Introduction to Natural Sciences:

BIOB12Y* Biological
Fundamentals of Ecology
BIOB15Y* Aquatic Systems
BIOB47Y* Plant Ecology
BIOC14F/S* Ecological Methods

Group 2: Cultural and Historical Roots
Native peoples before, or apart from, European contact:

QUAA03Y Ice Ages and Human Ecology
ANTC28F/S* The Prehistoric Archaeology of Canada
ANTB21Y* North American Background to Canadian Native Peoples
ANTB27Y* Archaeological Method and Theory

Modern cultures, both native and ethnic:
ANTB16S The Cultures of Modern Canada
SOCB20Y* Ethnic and Race Relations
SOCC24F/S* Changing Family Life in Canada
LINC12F Dialectology

Historical events following European immigration:

HISB04Y Introduction to Canadian History
HISB42Y* French Canada: Origins to the Present

HISB43Y* Ontario History: The 19th Century
HISB44F/S* Canadian Religious Traditions
HISB46Y* Atlantic Canada

HISC41F/S* Old Huronia
HISC42F/S* Church-State Relations in Canada
HISC43F/S* Selected Topics in Canadian Religious History

HISC45Y* Canadian Social, Political and Historical Thought

ECOB81Y* North American Economic History
ANTB52Y* Field Methods in Historical Archaeology

Group 3: Modern Urban Society

The nature of Canadian cities:

GGRB05Y* Urban Geography
GGRC04F/S* Urbanization and Residential Geography

GGRC31F/S* Development and Planning of Metropolitan Regions

POLB88Y Urban Politics
SOCB13Y* Canadian Society
SOCB15Y* Mass Media and Communications
SOCB23Y* Population

Problems generated by urbanization in Canada:

ECOB45F/S* Poverty and Income Distribution

GGRB17Y* Rural Geography
SOCC27F/S* Social Class in Canadian Society

The political/economic structure of urban Canada:

ECOA01Y Introduction to Economics
ECOB07Y* Macroeconomic Theory and Policy
ECOB31F/S* Economics of the Public Sector
ECOB32F/S* Economics of the Public Sector: Expenditures

ECOB35F/S* Public Decision Making
ECOB37F/S* Law and Economics
ECOB62F/S* International Economics: Trade Theory

POLB50Y Canadian Government and Politics
POLB51F/S* Government and Politics in Ontario
POLB52F/S* Canadian Constitutional Law

POLB53Y Public Policies in Canada
POLB54F/S* Intergovernmental Relations
POLB60Y Public Administration

POLB81F/S* Canadian Foreign Policy
POLC51F/S* Topics in Canadian Government
POLC61F/S* Policy Development

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: T. McFeat (284-3252)

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

ECOB13Y* Canadian Society
One and one-half further full-course equivalents (or six if ANTB16S is chosen from the preceding group) from the groups A, B and C listed below. The selection must include at least one full-course equivalent from each of the groups.

Group A
ECOB07Y Canadian Literature in English
POLB13F/S*) Drama in English Canada 1920-1970

ECOB25F/S* The Canadian Short Story
ECOB26Y* Canadian Poetry in English
ECOB27Y* Canadian Fiction in English

ECOB60Y The Arts in Canada: 1670 to 1960

ECOB61Y The Canadian Landscape
ECOB62F/S Recent Canadian Art
ECOB616Y* Language Practice

ECOB63F/S French-Canadian Novel to 1945
ECOB637F/S* French-Canadian Novel since 1945

ECOB638F/S* Theatre of French Canada
ECOB643F/S* French Language in Canada
ECOB639F/S* French-Canadian Poetry

Group B
ANTB16S Cultures of Modern Canada
ANTB21Y* North American Background to Canadian Native Peoples

ECOB38F* Prehistory of North America
ECOB28F* North of Mexico
ECOB28F* Prehistoric Archaeology of Canada

ECOB04Y Introduction to Canadian History
ECOB42Y French Canada: Origins to the Present

ECOB43Y* The Evolution of Ontario 1850-1950

ECOB44F/S* Canadian Religious Traditions
ECOB46Y* Atlantic Canada
ECOB47Y* The Canadian Left, 1867-present

ECOB41F/S* Old Huronia
ECOB42F/S* Church-State Relations in Canada

ECOB43F/S* Selected Topics in Canadian Religious History

ECOB45Y* History of Canadian Social, Political and Historical Thought

ECOB50Y Canadian Government and Politics

ECOB51F/S* Government and Politics in Ontario
ECOB52F/S* Canadian Constitutional Law

ECOB53Y Public Policies in Canada
ECOB54F/S* Intergovernmental Relations

POLB60Y Public Administration
POLB81F/S* Canadian Foreign Policy
POLB88Y Urban Politics
POLC51F/S* Topics in Canadian Government
POLC61F/S* Policy Development
POLC71Y Canadian Political Ideas
SOCB13Y* Canadian Society
SOCB15Y* Sociology of Mass Media and Communications

SOCB20Y* Ethnic and Race Relations
SOCB23Y* Population
SOCC24F/S* Changing Family Life in Canada
SOCC27F/S* Social Class in Canadian Society

Group C

ECOA01Y Introduction to Economics
ECOB07Y* Macroeconomic Theory and Policy

ECOB31F/S* Economics of the Public Sector: Taxation
ECOB32F/S* Economics of the Public Sector: Expenditure

ECOB35F Public Decision Making
ECOB37S Law and Economics
ECOB45F/S* Poverty and Income Distribution

ECOB62F/S* International Economics: Trade Theory
ECOB81Y* North American Economic History

COMC15Y* Income Tax
GGRB01Y* Geography of Resources
GGRB05Y* Urban Geography

GGRB17Y* Rural Geography
GGRC04F/S* Urbanization and Residential Geography

GGRC14F/S*) Settlement of Upper Canada
GGRC31S Development and Planning of Metropolitan Regions

GGRC34F* Landscape Interpretation
NSCA02Y Introduction to Natural Science: The Biological Sciences

QUAA03Y Ice Ages and Human Ecology
BIOB12Y* Fundamentals of Ecology
BIOB15Y* Aquatic Systems

(BIOB39B*) Biogeography
BIOB47Y* Plant Ecology
BIOC14F/S* Ecological Methods

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

It should be noted that there are supervised reading courses at the C-level in many disciplines. If these are concerned with Canadian material, they may be included in the above list.

Chemistry

ing of courses. However they normally require several prerequisites and approval from the discipline representative before they can be undertaken.

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

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

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

Completion of CHMA02 permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry (CHMB01), Analytical Chemistry (CHMB02), 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 St. George Series	Complete Scarborough Courses
420	CHMA02; CHMB03; CHMC02
430	CHMA02; CHMB01; CHMB02; CHMC01
440 (except 447)	CHMA02; CHMB05; CHMC03

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA03 (A02Y) early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA02, MATA55 or MATA26 and PHYA03 (PHYA02).

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

Specialist Programme in Chemistry

Supervisor: 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:	
CHMA02Y	General Chemistry
MATA26Y	Calculus
MATA55Y	Calculus with Analysis
PHYA03Y	Physics for the Physical and Life Sciences
PHYA02Y	
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
MATB50F*	Analysis I
MATB55S	Analysis II

Students should note that if they are going to select 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:	
CHMA02Y	General Chemistry
BIOA03Y	Introductory Biology
MATA26Y	Calculus
or	
MATA55Y	Calculus with Analysis
PHYA03Y	Physics for the Physical and Life Sciences
(PHYA02Y)	
Second and Third years:	
CHMB01Y	Inorganic Chemistry I
CHMB02Y	Analytical Chemistry
CHMB03Y	Physical Chemistry I
CHMB05Y	Organic Chemistry I
JBCB35Y	Introductory Biochemistry
JBCB36H	Laboratory in Biochemistry
CHMC01Y	Inorganic Chemistry II
or	
CHMC02Y	Physical Chemistry II
CHMC03Y	Organic Chemistry II
MATB41F	Techniques of the Calculus of Several Variables I

or
MATB50F Analysis I
MATB42S Techniques of the Calculus of Several Variables II

or
MATB55S Analysis II
In addition, CHM447S (St. George) or BCH424S (St. George), one additional BCH400 series half-course (St. George) one and one-half additional CHM full-course equivalents selected from the C-level or 300 - 400 series (St. George), or 400 series BCH courses.

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

Specialist Programme in Chemical Physics

Supervisor: 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

(PHYA02Y)

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, PHYC03Y, PHYC04S, PHYC05H, PHYC06F or a 300 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

Students are urged to consult with the supervisor early in the Programme.

Major Programme in Chemistry

Supervisor: 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

(PHYA02Y)

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

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, PHYC03Y, PHYC04S, PHYC05H, PHYC06F or a 300 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

Students are urged to consult with the supervisor early in the Programme.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 designed 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

PHYA03Y Introductory Biology

Second and Third years:

CHMB05Y Organic Chemistry I

CHMB03Y Organic Chemistry II

CHMB05Y Introductory Biochemistry

CHMB03Y Laboratory in Biochemistry

CHMB05Y Biology of Macromolecules

CHMB03Y One full-course equivalent selected from:

CHMB02Y Analytical Chemistry

CHMB03Y Physical Chemistry I

CHMB02Y Basic Microbiology

CHMB03Y General and Comparative

Physiology

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

as prerequisites.

Students should note that if they are going to select CHMB03Y, they must take PHYA03Y

(PHYA02Y) and MATA26 or MATA27 or MATA55

Prerequisite: Grade 13 Chemistry (or Grade 12 Chemistry and permission of instructor); Grade 13 Functions and Relations

Corequisite: (MATA22) or MATA26Y6 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

R.H. Morris

CHMB02Y Analytical Chemistry

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

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

The course consists of 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.

Exclusion: (CHMB08)

Prerequisite: CHMA02

Other recommended courses: CHMB01

Session: Winter Day

K.A. Henderson

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(A02)

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.

Prerequisite: CHMA02

Session: Winter Day

R. McClelland

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

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.

Three hours of laboratory plus one hour of lecture each week.

Prerequisite: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

J. Gurd

CHMC01Y Inorganic Chemistry II

A study of transition metal chemistry including energy level diagrams; valence bond, crystal field and molecular orbital theories of bonding; spectra of transition metal complexes; structure and coordination numbers; isomerism; inorganic reaction kinetics and organometallic chemistry.

The objective of this course is to understand the structure, bonding, spectra and reactions of transition metal complexes. Two hours of lecture per week; seven hours of laboratory per week to be taken in either the Fall or Spring term. The required text is *Inorganic Chemistry* 2nd edition by J.E. Huheey.

Prerequisite: CHMB01, CHMB02 (or CHMB04)

Corequisite: CHMB08 (if only CHMB04 obtained)

Session: Lectures: Winter Day

Laboratory: Fall Term or Spring Term - One Day

A. Walker

CHMC02Y Physical Chemistry II

Quantum mechanics and its application to the theory of atomic and molecular structure, and spectroscopy. Basic principles of classical and quantum statistical mechanics, statistical thermodynamics, theory of chemical kinetics and electrochemistry. 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 using high atomic and molecular spectroscopy. Inter-molecular 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.

Prerequisite: CHMB03; MATB41 and MATB42, or CHB50 and MATB55

Session: Lectures: Winter Day

Laboratory: Spring Term - One Day

CHMC03Y Organic Chemistry II

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

Two lectures and one four hour laboratory per week.

Prerequisite: CHMB05

Session: Winter Day

CHMC45Y Library Thesis

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

The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. To develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Exclusion: CHMC47

Prerequisite: Permission of instructor

Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry 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 Chemistry Programmes.
Session: Summer Day, Winter Day
Members of the Chemistry Faculty

CHMC48S Special Topics in Inorganic Chemistry

A selection of topics in inorganic chemistry. Recent developments are emphasized. The content of the course varies from year to year, so students should consult with the faculty members involved as to the specific areas to be covered in a given year.

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful. Two lectures per week. a. 90 Prerequisite: CHMC01

Session: Winter Day
R.H. Morris, A. Walker
d110

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

CHMC50S Special Topics in Physical Chemistry

A selection of topics in physical chemistry in which recent developments are emphasized.

The content of the course varies from year to year. Examples of topics recently treated include quantum chemistry and theories of elementary chemical reactions. The course structure is two lectures per week.

Corequisite: CHMC02

Session: Winter Day

Courses not Offered in 1983-84**CHMC40F Kinetics and Mechanism of Chemical Reactions**

Corequisite: CHMC01; CHMC02; CHMC03

CHMC41S Structure and Synthesis of Chemical Compounds

Corequisite: CHMC01; CHMC02; CHMC03

CHMC51S Special Topics in Synthetic Organic Chemistry

Corequisite: CHMC03

CHMC52S Special Topics in Organometallic Chemistry and Catalysis

Prerequisite: CHMC01

Classical Studies

Discipline Representative: E. M. Irwin
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, 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:

- CLAA01Y Classical Civilization
- HUMA11Y Greek and Roman Mythology
- CLAB01Y Greek and Roman Epic
- or
- 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
- Three additional full-course equivalents from:
- CLA, GRH, GRK, LAT, HUMB22F/S, B23F/S, B24F/S, B25F/S, B34F/S, B35F/S, B36Y, B61F/S, PHLB40F, PHLB41S, PHLB42F, PHLB43S; FARA10F/S, FARB04F/S, FARB05F/S, FARB06F/S. The selection of these must be approved by the Supervisor.

Major Programme in Classical Studies

Supervisor: J. Warden (284-3144)(Greek)/I. R. McDonald (284-3171)(Latin)

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

Classical Studies (Latin):

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

Classical Studies (Greek):

- 1 CLAA01Y Classical Civilization
 - 2 Three full-course equivalents in Greek*
 - 3 GRHB01Y Greek History from the Bronze Age to the Death of Alexander
 - 4 Two further full-course equivalents to be selected in consultation with the Supervisor from:
- GRK;
CLAB01Y, B02Y, B21Y;

FARA10F/S, B04F, B05S;
GRHB24F/S, B25Y, B26Y;
HUMA11Y, B22F/S, B25F/S, B34F/S, B35F/S, B36Y, B61F/S;
PHLB40F, B41S, B42F, B43S

* Excluding GRKB10Y (and B20Y), except with permission of Programme Supervisor

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

- 1 Four full-course equivalents in LAT or four full-course equivalents in GRK
- 2 CLAB01Y or CLAB02Y
- 3 Two further full-course equivalents from courses in CLA, GRK, HUM, LAT to be selected in consultation with the Supervisor.

See also the Specialist Programme in Language and Literature.

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
A. Boddington and Staff

CLAB21Y Greek and Roman Religion

A study of religion in the Greek and Roman world.

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

One two-hour lecture a week, with opportunities for discussion.
Prerequisite: HUMA11 or CLAA01 strongly recommended.

Session: Winter Evening

M.E. Irwin

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, so 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 Evening
A. Boddington

GRHB03Y Roman History from the Gracchi to Nero

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

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

Session: Winter Day
J. Corbett

GRHB25Y Studies in Greek History I

Politics and economics in Greek city states, seen, as far as possible, through the eyes of the Greeks themselves.

A study of the period covered by B01Y, in which we look at people, places and ideas at a more specialized level. Students will be expected to study the source material in some depth, in translation. Choice of term paper topics will depend on the interests and qualifications of the student. The class will hold two seminar meetings a week.

Prerequisite: GRHB01, or any related GRH, CLA or HUM course
Session: Winter Day

A. Boddington

A01Y Introductory Greek

Basics of the language, with an emphasis on reading.

This course is for students who wish to acquire basic reading knowledge of ancient Greek.

Hours a week. Text: *Reading Greek* (JACT Press, 1978).

Session: Grade 13 Classical Greek
Session: Winter Day

M. Irwin

A10F Introduction to Greek Authors

Reading of simple Greek texts combined with 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

M. Irwin

B01S Plato: Apology

Study of *Apology*, Plato's account of Socrates' defence 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.

This course will include exercises to assist the student in further study of the Greek language. There will be one-hour meetings weekly in which students will be expected to participate actively in translating and discussing passages of the text.

Prerequisite: GRKA10

Session: Winter Day
M. Irwin

B10Y Intermediate Modern Greek

Study of the Modern Greek language, primarily in written form, with the goal of preparing the student for the reading of Modern Greek literature.

Prerequisite: GRK150 (St. George) unless the student is a native speaker of the language

Session: Winter Day
G. Papadatos

GRKB22Y Images of Modern Greece: 1936 to the Present

An examination of the social, political and cultural development of modern Greece in the last quarter-century.

This chronological study of one of the most vital moments in modern Greek history will focus first on the time of the Metaxas dictatorship, World War II and the civil war; then on the "boom" years from 1960 to 1967; and lastly on the period from the establishment of the military junta to the present. Analysis of social, economic and political phenomena will be complemented by a detailed study of cultural expression in such diverse fields as literature, music, theatre, cinema and folklore. Our field of enquiry will include selections from the work of poets, novelists and dramatists such as Seferis, Elytis, Vrettakos, Tachtsis and Kehaidis, of Karolos Koun and the Art Theatre; of seminal composers Theodorakis and Hadjidakis, and their heirs; and of the folklorist Domna Samiou. The final stage of the course will stress developments of the last decade.

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

Prerequisite: GRKB10 or permission of instructor

Session: Winter Day
G. Papadatos

GRKB30F-B34F

GRKB35S-B39S

GRKB40Y Supervised Reading

Reading of texts in Greek chosen by consultation between students and faculty.

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

Prerequisite: GRKB01 or demonstrated competence in reading classical Greek
Session: Winter Day

Co-ordinator: E.M. 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 helping him see the language in its cultural and historical context, and the impact of Latin on English.

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

The text is F. L. Moreland and R. M. Fleischer, *Latin. An Intensive Course*.

Exclusion: Grade 13 Latin

Session: Winter Day

I. R. McDonald

LATA10F Introduction to Latin Authors

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

This course serves as an introduction to university-level Latin studies for students with Grade 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

LATB01S Catullus

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

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

Prerequisite: LATA10

Session: Winter Day

J. Warden

LATB20F Latin Authors II

Reading and analysis of Latin Texts, prose or 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

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: I. R. McDonald

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: I. R. McDonald

Courses Not Offered in 1983-84

LAB01Y

LAB02Y

LAB23S

GRHB02Y

GRHB24S

GRHB26Y

GRHB27Y

GRHB29Y

Greek and Roman Epic

Greek and Roman Tragedy

Christianity in the Greco-Roman World

Greek and Roman History from the Death of Alexander to Gracchi

Ancient Historiography

Studies in Greek History II

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

Studies in Roman History: Pompeii

Studies in Roman History: Roman Britain

Prerequisite: GRHB03 or any other GRH 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 Supervisor 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

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

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

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:

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

Two full-course equivalents in ECO courses including ECOA01

JCSB27

NOTE D

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

Careers in Accountancy

The College offers a significant number of courses which have been recognised as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Registered Industrial Accountants. A brochure describing the various programmes and listing the recognised Scarborough College courses is available from the Student Services Office (284-292).

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, Summer 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 *Reserving*

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 *Reserving*

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 Evening *Cancelled*

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 Evening *Cancelled*

MC10F Management Control Systems

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

MC15Y Income Tax

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
German

MC25F Organizational Design

Course reviews design alternatives, involving changes in strategies, structures, environments and people for both business and non-business complex organizations. Limited enrolment: 60.
Prerequisite: JCSB27
Session: Winter Day

MC28F Comparative Organizational Behaviour

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

MC30Y The Legal Environment of Business

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

EC40S Public Policy Towards Business

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
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 *Cancelled*

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

JCEC70S Advanced Corporate Finance

This course focuses on major issues in corporate financial management with reference to company valuation for financial decisions and capital structure issues. Limited enrolment: 60.
Prerequisite: JCEC02
Session: Winter Day
K. Ho

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 *Cancelled*
Session: Winter Evening

Computer Science

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

COMC09S
C10F
C26F
C55S
JCEC75S
COMC06S

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 inherent difficulties 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 with an interest in electronics should consider the sequence of physics courses PHYA03Y, PHYB03F, PHYB08S. Students who wish to study computing primarily to use computers in their own specialities should begin with CSCA56F and CSCA66S.

Specialist Programme in Computer Science

Supervisor: W. Enright (284-3340)

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, MATA26 or MATA55, MATA40F, MATA45S

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

Third year:
CSCC78F, JMCC51S, 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 CSCC85S, C44F or C68F, 340S, 434F, 444S, 458S, 468F, 474S, 484F.
(Note that only CSCC68F, CSCC64S and CSCC85S 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: W. Enright

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, MATA26 or MATA27 or MATA55, MATA40F, COMA01, ECOA01

Second year:
CSCB68F, 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, 438F, 448S, 465F, 478F, JMCC51S and any three of CSCC85S, C44F or C68F, CSC340S, 434F, 444S, 458S, 465F, 478F, 468F, 474S, 484F.
(Note that JMCC51S, MATB44F, CSCC68, CSCC85, and CSCC64S 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: W. Enright

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, 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, C34F, C44F or C68F, C85S, C78F, CSC340S, 434F, 444S, 458S, 468F, 474S, 484F
 - (ii) at least two of MATB44F, JMCC51S, CSCC64S, JMCC31F, JMCC32F, CSC438F, 448S, 441S, 446S, 451F, 465F, 478S
 - (iii) at most two of CSCB08S, 218F, 300S
- (Note that CSCB28, C34, C64, C68, C78, C85, MATB44, JMCC51, C31, C32 are offered at Scarborough, while all other courses must be completed at the St. George Campus.)

CSCA56F/S/H 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 PL/1 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 PL/C. Structured programming. Elementary applications.

The PL/C programming language is used as a vehicle for the formulation and implementation of correct, lucid, and efficient algorithms for digital computers. Applications of programming techniques are considered. 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 numerical and non-numerical problems. Topics will include numerical methods, simulations, graph theory, data processing, and the validity of computer models.

Specific topics include: basic data structures; lists, stacks, queues, trees, graphs. Recursive programming. Graph theory algorithms. Sorting and searching algorithms. Numerical methods. 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 program 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.

Enrolment limit: 100.

Prerequisite: CSCA68

Session: Winter Day

Exclusion: CSCB73F

CSCB68F Programming Languages and Their Applications

Programming languages and applications. The syntax and semantics of various programming languages, including both algebraic and symbol manipulation languages. Data structures. Numerical and non-numerical applications.

This course is intended to introduce students to a wide range of programming languages, their formal description, and their applications. The languages PASCAL, SNOBOL, LISP will be discussed in detail, and their features will be compared. Other languages will also be discussed.

Enrolment limit: 100.

Prerequisite: CSCA68

Session: Winter Day

CSCC34F File Structures and Application Systems

Searching techniques including binary trees, B-trees, and hashing. 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

JMCC32F Graph Theory and Algorithms for its Applications

Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank farm scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.

Prerequisite: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science.

Session: Winter Day

JMCC51S Numerical Methods

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

This course is an introduction to the numerical solution of several types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their comparison, for each class of problem. All the algorithms that will be used are available in a software library, so that programming will be restricted to the writing of short driving and linking programmes.

Eight or nine assignments will be given.

The language of the packaged programmes is FORTRAN, for which a brief review will be given.

Exclusion: (MATB53)

Prerequisite: MATA40, MATB42 or MATB55,

CSCA68

Session: Winter Day

Courses Not Offered in 1983-84

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

CSCC68F Compiler Design

Compiler organization. Lexical scanning, parsing, semantic analysis, symbol table management, runtime storage organization, code generation.

Applications of regular expressions, finite automata and context-free grammars to programming language translation. Compiler writing tools.

Corequisite: CSCC34F or CSCC78F

Prerequisites: CSCB58F or CSCB73F, CSCB68F

Exclusion: CSCC44F

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 representation, sequences, graphs and basic graph algorithms, representation of trees and heaps, internal and external sorting algorithms, search aiding structures: trees, dictionaries and hash tables, file structures, data base systems. The course structure is lectures and tutorials.


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.

Prerequisite: CSCB58,  Permission of instructor.

Session: Winter Day

JMCC31F Combinatorics

Co-operative Programme in Administration

Director:

Assistant to the Director: Joan Bunyan

Co-ordinator: Kim N. Humphries

The Co-operative Programme in Administration is designed to assist students

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

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

The basic principle of co-operative education is that a combination of academic studies and work placements can result in a richer educational experience and contribute substantially to preparation for careers after graduation.

Admission to the Programme

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

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

For students applying from Grade 13, an appropriate Grade 13 curriculum would include at least one course from Functions and Rela-

tions, Algebra and Calculus and at least three courses from the following areas of studies: English, History and Humanities. Prior study in any of the social sciences is not required.

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

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

Specialist in Co-operative Programme in Administration

Supervisor:

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

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

To maintain standing in the Co-op Programme each student must complete at least four full-course equivalents each year and maintain an overall GPA of 2.5 in all courses. To be entitled to compete for the first work term, (usually in the second year of study) a student must have completed seven full-course equivalents including COMA01, ECOA01, HUSB02 or HUSB03 or HUSB04 and POLB50. To qualify for the second work term a student must have completed nine full-course

equivalents including COMB01, JCSB27, ECOB03 and POLB60. To qualify for the third work term, a student must have completed eleven full-course equivalents typically including the core statistics requirement. To qualify for the fourth work term, a student must have completed thirteen full-course equivalents.

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

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

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

The first two years of study for co-op students follow:

First Year: COMA01, ECOA01, HISB02 or HISB03 or HISB04, JCSB27 or MATA27, POLB50

Second Year: COMB01, ECOB03, POLB60, two full-course equivalent electives; one work term

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

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

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

I Behavioural Foundations (two full-course equivalents)

Required:

JCSB27Y Organizational Behaviour
one full-course equivalent from:
POLB65Y Political Behaviour

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

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

Required:

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

one of:
ECOB32F Economics of the Public Sector: Expenditures
Public Decision Making

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

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

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

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

Required:

COMA01Y Financial Accounting
COMB01Y Management Accounting
one half full-course equivalent from:
ECOB11F/S Quantitative Methods in Economics

ECOB12S Quantitative Methods in Economics: Applications
GGRB02Y Analytical and Quantitative Methods in Geography

STAB52F Probability and Statistics I
STAB57S Probability and Statistics II
PSYB07F Data Analysis in Psychology
PSYB08S Experimental Design in Psychology
SOCB06F Social Statistics

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

I Policy Analysis (three full-course equivalents)

a two full-course equivalents from:

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

b one half full-course equivalent from:
POLB51F/S Government and Politics in Ontario

POLB54F Intergovernmental Relations
c one half full-course equivalent from:

ECOB07Y Macroeconomic Theory and Policy

ECOB12S Quantitative Methods in Economics: Applications

ECOB31S Economics of the Public Sector: Taxation

ECOB35F Public Decision Making
ECOB41F Industrial Organization
GGRB27F Development Principles I

II Economic Policy (four full-course equivalents)

a Required:

ECOB07Y Macroeconomic Theory and Policy

ECOB12S Quantitative Methods in Economics: Applications

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

ECOB31S Economics of the Public Sector: Taxation

ECOB32F Economics of the Public Sector: Expenditures

ECOB41F Industrial Organization
ECOC08S Econometrics
JCEC40S Public Policy Towards Business

c one full-course equivalent from:
POLB53Y Public Policies in Canada

POLC60F Administrative Politics
POLC61S Policy Development

POLC62F/S Organized Interests and the State

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

a Required:

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

b one half full-course equivalent from:

COMC04F Principles of Marketing
COMC05S Introduction to Marketing

Management
SOCB23Y Population
SOCC07S Sociology of Occupations and Professions

SOCC11F/S Sociology of Law and Law Enforcement

SOCC13F/S Industrial Sociology

c one full-course equivalent from:

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

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

a Required:

GGRB04Y The Nature of Human Geography

GGRB02Y Analytical and Quantitative Methods in Geography

GGRB05Y Urban Geography

GGRB27F Development Principles I
GGRB28S Development Principles II

b one full-course equivalent from:

ECOB47S Urban Economics
GGRC04F Urbanization and Residential Geography

GGRC18F Urban Transportation Policy Analysis

GGRC31S Development and Planning of Metropolitan Regions

POLB88Y Urban Politics
POLC60F Administrative Politics

POLC61S Policy Development
SOCC26F Sociology of Urban Growth

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

a two full-course equivalents from:

COMC04F Principles of Marketing
COMC05S Introduction to Marketing

Management
JCEC02Y Corporation Finance

JCEB72F Analysis for Decision Making I
JCEB73S Analysis for Decision Making II

b Required: one of:

ECOB12S Quantitative Methods in Economics: Applications

PSYB08S Experimental Design in Psychology

c one half full-course equivalent from:
POLC60F Administrative Politics

POLC62F/S Organized Interests and the State

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

CSCA56F Computer Programming
CSCA58F Introduction to Computing

CSCA66S Programming Applications
CSCA68S Problem Solving with Computers

CSCB28S Programming Techniques for Data Processing

ECOB41F Industrial Organization
JCEC40S Public Policy Towards Business

SOCC07S Sociology of Occupations and Professions

SOCC13S Industrial Sociology

including at least one half-course from Computer Science.

Development Studies

College Programme in Development Studies

Supervisor: R. Sandbrook (284-3168)
Development studies have been stimulated by the demise of formal colonialism since the Second World War. The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At Scarborough College the major programme is based primarily upon 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 third world countries or in backward parts of "developed" countries. Students may then select additional courses from a broad range of relevant courses which will allow more specialized thematic or regional concentration, while ensuring the relatively broad interdisciplinary background essential in practical development work. Students enrolling in the College Programme in Development Studies are strongly advised to combine it with a major programme in a related discipline.

Students must enrol in at least *three* full-course equivalents from the following:
(Courses marked with an asterisk have prerequisites.)

*ECOB66F	Economic Development
or	
*ECOB68S	Comparative Economic Systems
*GGRB27F	Development Principles in Geography I
*GGRB28S	Development Principles in Geography II
POLB91Y	Politics of the Third World
*SOCB16Y	Social Change
*SOCC17F	Social Change in the Third World

An additional *five* full-course equivalents should be selected from the following:
(Courses not selected as the three core courses in the group above may be included.)

*ANTB05S	Social Anthropological Study of Africa
*ANTB21Y	North American Background to Canadian Native Peoples
*ANTB32F	Political Anthropology
*ANTB40Y	Anthropological Demography
*ANTC42Y	Native Peoples of Canada
*ECOB61S	International Economics: Finance
*ECOB62F	International Economics: Trade Theory
*ECOB82Y	European Economic History
*ECOC07S	The Economics of Karl Marx

*GGRB01Y	Geography of Resources
*GGRB29Y	Soil Management and Conservation
*GGRC33Y	Africa: Perspectives in Geography and Development
POLB89S	Politics and Society in Contemporary Japan
POLB92Y	Politics and Society in Independent Africa
POLB93Y	The Chinese Political System
*POLC91F	Urbanization and Underdevelopment
*POLC92S	Multinational Corporations and Underdevelopment
*SOCB14Y	Comparative Social Structure
*SOCB23Y	Population
*SOCC01F/S	Sociology of Revolution
*HISB21F	Frontier Communities in the British European Commonwealth: The South African Model
*HISB22S	British Imperialism in India
*HISC21Y	Urbanization and Social Change - Nineteenth Century England

Additional courses of relevance to the programme of which students should be aware are:

ECOB81Y	North American Economic History
*GGRB24Y	Environmental Pollution
POLC85Y	Comparative Communism

Numerous relevant courses are also available at the St. George campus.

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 include A-level courses in each of the disciplines selected. It is possible to complete the College Programme in a three-year degree, as shown in Example 1 below. However, students who are interested in obtaining thorough training in development studies are strongly recommended to register in a four-year degree which requires combination of a Major Programme with the College Programme. This provides the opportunity to select a wider range of development courses as well as a stronger disciplinary background, as in Example 2 below.

Example 1 (three-year degree)

First Year:
HISB02Y, SOCA01Y, POLA01Y, GGRA04Y, ANTA01Y

Drama

Second Year:

GGRB27F, GGRB28S, POLB91Y, HISB21F, HISB22S, SOCB16Y

Third Year:

ANTB40Y, POLB89S, POLB92Y, SOCB23Y, SOCC16F, HISC21Y

Example 2 (four-year degree)

First Year:

ECOA01Y, SOCA01Y, POLA01Y, GGRA04Y, ANTA01Y

Second Year:

ECOB03Y, ECOB07Y, POLB91Y, GGRB27F, GGRB28S, SOCB16Y

Third Year:

ECOB66F, ECOB68S, ECOB11F, ECOB12S, ECOB61S, ECOB62F, GGRB01Y, ANTB32F, ANTB05S

Fourth Year:

SOCC17F, POLC91F, POLC92S, ECOC07S, ECOC05S, GGRC33Y, POLB92Y

Discipline Representative: M.Q. Schonberg

The Drama courses at Scarborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject.

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

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

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

Specialist Programme in Drama

Supervisor: M.Q. Schonberg (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
	ENGB04Y*	English Poetry and Drama 1660-1800
	ENGB10Y	Shakespeare
	ENGB12Y*	English Drama to 1642
	ENGC28F/S*	Drama in English Canada 1920-1970
	FREB29F/S*	French Drama of the Eighteenth Century
	FREB30F*	French Theatre of the Early Modern Period

FREB31S*	Contemporary French Theatre: The Theatre and the Absurd	DRAC23Y*/DRAC24Y*/ DRAC25F*/DRAC26S*/DRAC27F*/ DRAC28S*	Supervised Reading Courses
FREB38F/S*	The Theatre of French Canada	The student may take only one of the Individual Studies courses in any single academic year.	
FREB39F/S*	Workshop in Modern French Theatre	8	Two full-course equivalents chosen from the following:
FREB41F/S*	French Classicism: The Theatre	ANTA01Y	Introduction to Anthropology
JHGB50Y	(GERB40Y) The Development of German Drama (in translation)	ANTA03Y	Cultures in the Modern World
GERB63F*	(GERB16Y) Nineteenth Century Drama	ANTB02Y*	Anthropological Study of Religion
GERB70S*	(GERB03Y) Twentieth Century Drama	ANTB23Y	Comparative Mythology
HUMB70Y	Introduction to Cinema	CLAB01Y	Greek and Roman Epic
ITAB27F*	Modern Italian Theatre from Pirandello to the Present	ENGA01Y	(ENGA04Y) English Literature: Practical Criticism and Interpretation
ITAB35F/S*	Italian Sixteenth Century Theatre	ENGA08Y (FARA03Y)	Twentieth Century Literature
ITAB41F/S*	Italian Eighteenth Century Theatre	HISA01Y	Aspects of Western Culture from the Renaissance to Modern Times
(SPAB23Y)	Spanish Drama	HISA01Y	The European World: An Introduction to History
JSDB24F	Golden Age Drama	HUMA01Y	Prologue
* Students should check these courses for prerequisites		HUMA11Y	Greek and Roman Mythology
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).	LINA01Y	General Linguistics
DRAB02Y	The Directors' Theatre	LINA04F/S	Introduction to Language
DRAB05Y	The Art and Nature of Comedy	MUSA01Y	Introduction to Music
DRAB06Y	Canadian Drama	PHLB03F	Philosophy and Art
DRAB10B	Improvisational Theatre: Commedia dell'Arte	PSYA01Y	Introduction to Psychology
DRAB12B	Medieval and Early Tudor Drama: The Texts and Their Production	SOCA01Y	Introduction to Sociology
DRAB13B	The Victorian Theatre	* Students should check these courses for prerequisites	
DRAC01Y	Advanced Practical Workshop and Elements of Directing	**	Prerequisite ten full-course equivalents
DRAC10Y**	Individual Studies in French Theatre and Drama in Translation	NOTE No more than ten full-course equivalents in DRA are permitted in the four-year degree.	
DRAC11Y**	Individual Studies in German Theatre and Drama in Translation	Major Programme in Drama	
DRAC12Y**	Individual Studies in Italian Theatre and Drama in Translation	Supervisor: M.Q. Schonberg (284-3126)	
DRAC13Y**	Individual Studies in Russian 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:	
DRAC14Y**	Individual Studies in Spanish Theatre in Translation	DRAB01Y	An Introduction to the Practical Elements of Theatre
DRAC20Y*/DRAC21Y*/DRAC22Y*/		DRAB03Y	History of Theatre I
		DRAB04Y	History of Theatre II
		ENGB11Y	Varieties of Drama
		In addition, the student must take two full-course equivalents, one from group A and one from group B, but no more than two courses from DRAC10-C28 may be taken within the three-year degree.	

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

Group B	
CLAB02Y	Greek and Roman Tragedy
DRAB02Y	The Directors' Theatre
DRAB05Y	The Art and Nature of Comedy
DRAB06Y	Canadian Drama
DRAB10B	Improvisational Theatre: Commedia dell'Arte
DRAB12B	Medieval and Early Tudor Drama: the Texts and their Production
DRAB13B	The Victorian Theatre
ENGB04Y*	English Poetry, Prose and Drama 1660-1800
ENGB10Y	Shakespeare
ENGB12Y*	English Drama to 1642
ENGCB28F/S*	Drama in English Canada 1920-1970
ENGB31Y*	Modern Drama
FREB29F/S*	French Drama of the Eighteenth Century
FREB30F*	French Theatre of the Early Modern Period
FREB31S*	Contemporary French Theatre: the Theatre and the Absurd
FREB38F/S*	The Theatre of French Canada
FREB39S*	Workshop in Modern French Theatre
FREB41F/S*	French Classicism: The Theatre
JHGB50Y	The Development of German Drama (in translation)

GERB63F*	Nineteenth Century Drama
GERB70S*	Twentieth Century Drama
HUMB70Y	Introduction to Cinema
ITAB27F*	Modern Italian Theatre from Pirandello to the Present Day
ITAB35F/S*	Italian Sixteenth Century Theatre
ITAB41F/S*	Italian Eighteenth Century Theatre
JSDB24F*	Golden Age Drama
* Students should check these courses for prerequisites.	
** Prerequisite ten full-course equivalents	

DRAB01Y An Introduction to the Practical Elements of Theatre

An introductory practical course, concentrating on the non-literary aspects of theatre.

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

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

Careful preparation for each of the workshops is essential. Lab fee \$25.00

Session: Winter Day
L.L. Browne

DRAB02Y The Directors' Theatre

A study of the theoretical statements and practical work of directors from 1860-1960.

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

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

The bibliography includes Cole and Krich, ed. *Directors or Directing*. Jerzy, *Towards a Poor Theatre*, Brook, *The Empty Space*, Grotowski, *New Theatre for Old*.

Session: Winter Day
M.Q. Schonberg

Cancelled

DRAB03Y The History of Theatre I

A study of the non-literary aspects of theatre from the pre-Hellenistic period to the end of the eighteenth century.

Areas of concentration will include classical Greek and Roman theatre, with special emphasis on the Hellenistic period; Western European Medieval dramatic traditions; the impact of the *commedia dell'arte* on European theatre; Elizabethan and Jacobean drama; the theatre of the Baroque; Neoclassicism. Acquaintance with representative plays of the various periods will be required. Attention will also be paid to the social and political milieu from which the plays arise.

Lectures and tutorials. The text for the course will be *History of the Theatre* by Oscar Brockett. Representative plays will be announced.
Session: Winter Evening
M.Q. Schonberg

DRAB06Y Canadian Drama

A study of at least 25 Canadian plays from Canada's earliest theatre history to the present.

The course will survey the historical development and contemporary state of Canadian Drama (Some attention will also be paid to the history of theatre in Canada). Playwrights whose works will be studied include: Charles Mair, Sarah Curzon, Lister Sinclair, Gwen Pharis Ringwood, Merrill Dennison, John Coulter, Herman Voaden, Robertson Davies, John Herbert, George Ryga, James Reaney, Michael Cook, Sharon Pollock, Carol Bolt, David Fennario, Michel Tremblay, Gratien Gelinaz, Erika Ritter, David French, David Freeman.

Prerequisite (Permission of Instructor required for students who have taken ENG285).
Session: Winter Evening
L.L. Browne

DRAB13A The Victorian Theatre

A study of theatrical developments in England in the nineteenth century, paying particular attention to the popular theatre. In addition to the formal comedy and drama of the time, melodrama, light comedy and farce, burlesque, pantomime and music hall entertainment of this period will be studied with a view to contemporary staging practices and acting styles. One such entertainment will be produced by the class as part of the course. The class will meet in four three-hour sessions each week. It is hoped that visiting scholars will give guest lectures.

Session: Summer Evening (Summer Arts Programme)
L.L. Browne

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 \$25.00.
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

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

Courses Not Offered in 1983-84

DRAB02Y

The History of Theatre IIY

DRAB05Y The Art and Nature of Comedy
DRAB10B Improvisational Theatre: The

Commedia dell'Arte
DRAB12B Medieval and Early Tudor Drama:
The Texts and their Production
JSDB24F Golden Age Drama

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 (ECO001); the initial B-level courses - Price Theory (ECO003) and Macroeconomic Theory and Policy (ECO007); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECO081, ECO082), the Literature of Economics (ECO020, ECO021), Comparative Economic Systems (ECO068). 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 ECO001). 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 one-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 one-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 or ECOC07F/S
ECOC08S
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 those specified above.

Students are urged to take ECOA01Y, CSCA56F or CSCA58F and either MATA27Y or MATA26Y or MATA55Y in their first year of full-time study (or equivalent). MATA27Y is adequate for satisfying the mathematics requirements of the Programme. However, students considering the possibility of graduate work in Economics are urged to take B-level Calculus as well, and to take Mathematical Statistics (STAB52F and STAB57S) instead of ECOB11F/S.

NOTE: students taking MATA26 or MATA55 must complete additional courses in Mathematics in order to satisfy the Programme requirements (namely, MATB41F or MATB50F).
ECOB03Y, ECOB07Y and ECOB11F/S or (STAB52F and STAB57S) should normally be taken in the second year of full-time study. Students may petition the Supervisor for permission to substitute other courses for some of those listed above.

Specialist Programme in Economics and Commerce

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 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:

ECOA01Y
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:

Six full-course equivalents are required in each of the two disciplines.* The specific courses required are listed below. In addition, mention is

made of courses in other disciplines that complement the Specialist Programme.

Required courses in Economics:

ECOA01Y
ECOB03Y
ECOB07Y
ECOB31S, ECOB32F
ECOB20F or ECOB21S or ECOC05S or ECOC07F
ECOB35S or ECOB66F
ECOB11F/S OR (STAB52F and STAB57S)

Required courses in Political Science:

POLA01Y
POLB50Y
POLB70Y or POLB71Y

Three additional full-course equivalents from at least two of the five sub-fields listed below.

A Canadian Government, Public Administration - POLB51F/S, POLB52F/S, POLB53Y, POLB54F/S, POLB60Y, POLC50Y, POLC51F/S, POLC60F, and POLC61S, POLC62F/S

B Political Behaviour - POLB65Y, 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, POLC91F, POLC92S

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 Pro-

gramme in Economics. Students must complete at least twelve full course equivalents in Economics, Mathematics, Statistics and Computer Science. The specific requirements are as follows:

ECOA01Y
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
ECOC09
JCEB72F

One half course from: CSCC34F, CSCC51S, CSCC78F; 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: The Supervisor of Studies in Economics

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.

ECO01Y 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

ECO03Y 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 Day, Winter Day, Winter Evening

ECO07Y 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 Day, Winter Day, Winter Evening

ECO11F 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: ANT843; GGRB02; PSYB07; SOCB06; STAB52 Prerequisite: ECOA01 Session: Summer Day, Winter Day, Winter Evening

ECO12S 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

ECO13S 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.

ECO20F 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

ECO21S 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, Wicksell and the early Keynes. Limited Enrolment: 60. Prerequisite: ECOA01 Corequisite: ECOB03, ECOB07 Session: Winter Day

ECO31F 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 Evening M. Bucovetsky

ECO32F 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 Day M. Bucovetsky

ECO35S 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 Evening M. Krashinsky

ECO37S 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

ECO41F/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

ECO45F 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

ECO47S Urban Economics

Economic analysis applied to contemporary urban problems. Topics discussed include housing and urban renewal, poverty and income maintenance, education, and metropolitan organization of urban areas. Prerequisite: ECOB03 Session: Winter Day

ECO51S 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

ECOB66F Economic Development

A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions. Topics include the role of international trade and 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 Day

ECOB68S Comparative Economic Systems

An introduction to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a theoretical perspective; the rest will be devoted to studies of particular economies,

especially Canada, the Soviet Union and Yugoslavia. Limited Enrolment: 60.
Prerequisite: ECOA01
Corequisite: ECOB03
Session: Winter Day
I. Parker

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~~ ^{MTA}
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
D. Moggridge

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

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 consideration of their implications. Modern criticisms and interpretations will be discussed.
Prerequisite: ECOB03, ECOB07
Session: Winter Day
D. Moggridge

ECOC07S The Economics of Karl Marx

A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.
Prerequisite: ECOB03, ECOB07
Session: Winter Day

ECOC08S Econometrics

A 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, ~~ECOC05~~
Prerequisite: ECOB12, ECOB03, ECOB07, MATA40 or MATB41 or permission of instructor
Corequisite: ECOC13 or ECOC14
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

Cancelled
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

JCEC70S Advanced Corporate Finance

This course focuses on major issues in corporate financial management with reference to company valuation for financial decisions and capital structure issues. Limited Enrolment: 60.

Prerequisite: JCEC02

Session: Winter Day

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 1983-84

Cancelled
ECOB47S

ECOC17F

ECOC18S

ECOC19F

ECOC20S

Workshops in Economics

Prerequisite: ECOB03; ECOB07; MATA26 or MATA27 or MATA55. For ECOC19 and ECOC20, ECOC13 or ECOC14 will be a prerequisite.

Discipline Representative: M.S. Tait

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: M. Tait (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

HISB23Y Tudor and Stuart England

(Prerequisite: a B-level HIS course)

HUMA01Y Prologue

HUMA11Y Greek and Roman Mythology

LINA01Y General Linguistics

(The above listing represents those courses which have a general relevance to the study of English literature. Students may substitute, with the prior approval of the Supervisor, other Humanities courses which have specific relevance to their individual programmes.)

Major Programme in English

Supervisor: M. Tait (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 tragicomedy? This course will consider such questions, mainly through practice in the close analysis of literary texts. Frequent written assignments should stimulate students to think critically, to

formulate their ideas coherently, and to express themselves clearly and persuasively. The texts are: *The Norton Anthology of English Literature (Fourth Edition)*, Vols. 1 and 2; Austen, *Pride and Prejudice*; Dickens, *Great Expectations*; further texts may be chosen by individual instructors.

Teaching will involve a mixture of lecture and discussion, with particular emphasis on active class participation. All sections will require written term work (a total of at least 7500 words).

Exclusion: (ENGA04)

Session: Winter Day, Winter Evening

Co-ordinator: M. Cuddy-Keane

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, D.H. Lawrence, Naipaul, and Margaret Laurence. Plays by dramatists such as O'Neill, Tennessee Williams, 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.

cancelled

Teaching will involve a combination of lectures and tutorials.

Note: this course is intended primarily for students who do not expect to take a Specialist or Major Programme in English.

Session: Summer Evening, Winter Day.

R. Brown, W. J. Howard

ENGB01Y Old English Language and Literature

An introduction to the language and literature of the Old English period as represented principally in the poetry and prose of the ninth and tenth centuries.

In the first term a fluency in the language is developed, mainly through a study of the grammar and syntax of various pieces of prose and poetry; the second term is devoted to a reading of poems selected from the Exeter Codex.

Bibliography Quirk and Wrenn, *An Old English Grammar*; J. C. Pope ed., *Seven Old English Poems*; Aelfric, *Lives of Three English Saints*; N. F. Blake ed., *The Phoenix*.

Three hours of co-operative workshop each week. Students are expected to prepare work for these meetings.

Session: Winter Day

A. Patenall

ENGB06Y Victorian Poetry

The poetry of Tennyson, Browning, Arnold, and selections from other poets, including Morris, D. G. Rossetti, Swinburne, Hopkins, Hardy.

The poetry of this period reflects the spiritual crisis of the Victorian age-- the collapse of religious belief, the resulting alienation and despair, and the attempt to affirm a positive vision in the face of doubt. The course concentrates upon major poems of the mid-Victorian period, emphasizing the development of the dramatic monologue and the elegy. A selection of poems from the later period reflects increasingly darker ironies and leads to the introverted and sensual poetry of Aestheticism and Decadence. The course focuses both on close readings of individual poems and on general discussion of nineteenth-century thought.

Prerequisite*: ENGA01, ENGA02; or ENGB15

Session: Winter Day

M. Cuddy-Keane

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 novelists such as Callaghan, MacLennan, Laurence, Grove, Davies, and poets such as 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; however, the individual student will be encouraged to read more widely in the works of particular authors through the preparation of essays.

Lectures, discussions, and tutorials. Texts will include Laurence, *A Jest of God*; Davies, *The Manticore*; Ostenso, *Wild Geese*; MacLennan, *The Watch that Ends the Night*.

Session: Winter Evening

R. Brown

ENGB09Y Prose and Poetry of the English Renaissance 1500-1660

The non-dramatic literature of the English Renaissance from the rise of English humanism to the Interregnum.

This course begins with sixteenth-century humanism in the works of More, Erasmus and other Continental writers. It traces the development of English poetry from the early Tudor period (Wyatt and Surrey), through Spenser, Sidney, Shakespeare, Marlowe, Donne, Jonson, Herbert, Marvell and Vaughan, including love poetry and other lyric forms, as well as the epic as treated by Spenser and Milton. The evolution of English literary prose and prose-narrative forms is studied in works by More, Sidney, Bacon, Browne, Burton, Milton and Bunyan. Texts to be announced.

Corequisites: ENGA01, ENGA02; or ENGB15

Session: Winter Evening.

R. Brown

ENGB10Y Shakespeare

A study of at least eleven plays.

A study of selected plays by Shakespeare, both as unique works of art and in the larger contexts of Shakespeare's work as a Renaissance dramatist. A list of texts will be available in H332A.

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 the 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 ten plays. Students are encouraged to think about the relationship between dramatic texts and their theatrical production, to consider the relevance of generic labels (e.g. tragedy, comedy, tragicomedy), 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 Ernest*; Pinter, *The Homecoming*. A full reading list will be available later in H332A.

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 techniques and theatres from medieval times to the Elizabethans. The Shakespeare texts are: *Comedy of Errors*, *Love's Labour's Lost*, *Richard II*, *Much Ado about Nothing*, *Measure for Measure*, *Othello*, *The Winter's Tale*. Others will be announced.

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

Corequisite*: ENGA01, ENGA02; or ENGB11

Session: Winter Day

J. M. R. Margeson

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.

Teaching method will combine lecture and discussion.

Session: Winter Day

H. Jackson

ENGB15Y English Poetry

A comparative study of forms, modes, themes, and styles of poetry from a number of historical periods.

The poems selected for study will reflect the variety of forms in the English poetic tradition, including medieval ballads, Renaissance sonnets, eighteenth-century couplets, romantic odes and modern free verse. Poets studied will include Shakespeare, Donne, Pope, Wordsworth, Eliot, and Yeats. The text will be *The Norton Anthology of Poetry: Shorter Edition* (Revised). Classes will involve close reading and discussion of selected poems in a seminar group.

Session: Winter Day

S. Namjoshi

ENGB16Y Fiction 1832-1900

A study of the development of the English novel in the Victorian period.

This course cultivates an understanding of the English novel in its most assured period of creation through study of the following works: C. Bronte, *Jane Eyre*; E. Bronte, *Wuthering Heights*; Thackeray, *Vanity Fair*; G. Eliot, *Middlemarch*; Dickens, *Hard Times*, *Great Expectations*; Hardy, *Far From the Madding Crowd*, *The Woodlanders*, *Jude the Obscure*; G. Moore, *Esther Waters*; Conrad, *The Secret Agent*. Students are urged to read as many of these novels as possible beforehand.

Teaching will be conducted by lectures, discussion and seminars.

Prerequisite*: ENGA01, ENGA02; or ENGB14; or HISC21

Session: Winter Day

A. Thomas

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, Malgoukar, Keneally, Stow, Stead, White.

Exclusion: ENGB28Y

Session: Winter Day

W.J. Howard

ENGB24Y Major American Authors

A close study of works by at least four and no more than six authors. Three of the authors will be drawn from the following list: Cooper, Emerson, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner.

Further information will be available later in Room H332A.

Prerequisite: One full-course equivalent in English

Session: Winter Day

J. Kay

ENGB25F The Canadian Short Story

A study of the best contemporary short stories written by Canadian authors. The course will emphasize the short fiction of Margaret Atwood, Margaret Laurence, Alice Munro, Clark Blaise, Hugh Hood, and Mavis Gallant.

This course will not be a survey of authors studied chronologically, nor will it place its primary focus on the context of culture or nationality. Instead it will first of all seek to discover techniques for reading Canadian short stories. Since one of the techniques considered will be the use of an author's body of work as a means of understanding an individual story, single author collections will be used rather than an anthology. The course will also discuss technical aspects of the short story as a literary form and will investigate a number of larger contexts (modernism, the literary tradition, culture).

The following works will be studied in this course: Margaret Atwood, *Dancing Girls*, Margaret Laurence, *A Bird in the House*, Clark Blaise, *A North American Education*, Alice Munro, *Something I've Been Meaning to Tell You*, Mavis Gallant, *The End of the World*, Sinclair Ross, *The Lamp at Noon*, Hugh Hood, *Selected Stories*, and one or two other collections.

Session: Winter Day

Russell Brown

ENGB26Y Canadian Poetry in English

A study of the Canadian poets of the nineteenth and twentieth centuries, including Lampman, Pratt, F.R. Scott, A.J.M. Smith, Birney, Klein, Layton, Reaney, Avison, Livesay and Atwood.

Problems arising from the relationship of a poem to its cultural context are of particular importance in the study of Canadian poetry. We shall examine the ways in which Canadian poets have dealt with these problems.

The teaching method will combine lectures and seminars

Prerequisite: One full-course equivalent in English

Session: Winter Day

S. Namjoshi

ENGB27Y Canadian Fiction in English

A study of Canadian fiction in English from its origins in the eighteenth century, through the search for form and tradition in the nineteenth and early twentieth century, to the contemporary period of new exploration and consolidation.

The course examines authors confronting the problem of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition. It then examines several contemporary novelists both in terms of that tradition and through close readings of specific novels. Texts: Frances Brooke, *The History of Emily Montague* (selections); Moodie, *Roughing It in the Bush*; Grove, *Fruits of the Earth*; Callaghan, *They Shall Inherit the Earth*; MacLennan, *Each Man's Son*; Mitchell, *Who Has Seen the Wind*; Ross, *As For Me and My House*; Watson, *The Double Hook*; Richler, *St. Urbain's Horseman*; Laurence, *The Stone Angel*; Davies, *Fifth Business*; Kroetsch, *The Studhorse Man*; Atwood, *Surfacing*; and one or two additional novels.

Prerequisite: One full-course equivalent in English

Session: Winter Evening

J.M.R. Margeson

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.

Prerequisite*: ENGA01, ENGA02; or ENGB11

Session: Winter Day; Summer Evening

M.S. Tait; K. Theil

ENGB33Y Fiction 1900-1950

An intensive study of at least twelve novels, with particular attention given to developments in fictional form and in the theory of the novel.

The early twentieth century was a period of innovation and experiment in the novel. New ways of writing novels expressed new ways of thinking about man. This course explores the emergence of a new 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: James, *The Ambassadors*; Conrad, *Lord Jim*; Ford, *The Good Soldier*; Joyce, *A Portrait*; Lawrence, *Sons and Lovers*; Woolf, *To the Lighthouse*; Forster, *A Passage to India*; Faulkner, *Absalom, Absalom!*. Students are urged to do some reading in advance and use editions listed in the Bookstore.

Prerequisite*: ENGA01, ENGA02; or ENGB14

Session: Winter Day

K. Theil

ENGB34S The Short Story

An introduction to the short story as a literary form.

This course will suggest that the short story, like the lyric poem, may have a simple face, but a complex psychology. We shall examine its special appeal for writers and readers; the particular effects it is best able to produce; its origins and the course of its development. The reading will begin with stories drawn from different countries and periods to explore the variety of possibilities within the form; we will then concentrate upon a few writers and their individual achievements. Some readings in the theory of short fiction will be assigned.

Session: Winter Day

M. Cuddy-Keane

ENGB71F Dryden and the Restoration

A study of English plays, poems and non-fiction prose of the period 1660-1700.

In addition to Dryden, authors to be studied will include Butler, Rochester, Congreve and Wycherley. Texts to be announced.

Exclusion: ENGB04

Prerequisite: ENGA01, ENGA02; or ENGB15

Session: Winter Day

W.J. Howard

ENGB72S Pope, Swift and the Early Eighteenth Century

A study of English poetry and prose, 1700-1745.

In addition to Pope and Swift, authors to be studied will include Addison, Steele and Defoe. Texts to be announced.

Exclusion: ENGB04

Prerequisite: ENGA01, ENGA02; or ENGB15

Session: Winter Day

W.J. Howard

ENGB95Y English Literary Criticism

A study of English literary criticism from the Renaissance to the 20th Century.

This course aims to develop a systematic understanding of criticism. Some great critical texts in the English tradition will be studied in detail. Reading will include works by: Pope, Johnson, Coleridge, Shelley, Arnold, Leavis, Richards, Empson, Frye, Burke, among others. Central issues of literary theory are raised by these works and will be discussed in relation to them.

Prerequisites: A01 (A04), A02 and two further full-course equivalents in English.

Session: Winter Evening

J. Kay

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 Profes-

sor M.S. Tait. By November 15th a more specific statement of the project is to be sent to Prof. Tait 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

ENG15Y 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

ENG60-69F/S Selected Topics in Renaissance Literature

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

ENG65F Edmund Spenser
This course offers a critical study of several of the major genres of poetry in the context of the artistic development of a single poet. In Spenser's work, the ancient and medieval traditions

are preserved, yet adapted to express modern experience. Spenser is also the great myth-maker of English poetry, and through his poetry we shall attempt to understand better how myth operates in poetry and in human life and what is peculiar to the literary use of myth.

Prerequisites: ENGA01, ENGA02; and three further full-course equivalents in English, or one of ENGB09, ENGB10, ENGB12.

Enrolment limited to 15.
Session: Winter Evening
E.P. Vicari

ENG66S John Milton

The poetry and a good sampling of the prose of Milton will be read in this course, which traces Milton's artistic and intellectual development. Milton's career is of special interest as it is almost a paradigm of the ideal career of the poet who, in the Humanist tradition, is very much a citizen as well. All the major currents of Renaissance thought and the dominant forms of Renaissance poetry reach a kind of fruition and terminus in Milton's work.

Prerequisites: ENGA01, ENGA02; three further full-course equivalents in English, or one of ENGB09, ENGB10, ENGB12.

Enrolment limited to 15.
Session: Winter Evening.
E.P. Vicari

ENG80-89F/S Selected Topics in Nineteenth Century Literature

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

ENG81F George Eliot

The primary focus will be on a close analysis of approximately four novels, reflecting the author's development as an artist; readings will include selections from her letters and journals. Students are advised to obtain the Norton Edition of *Middlemarch* and read that novel in advance. Prior reading of *The Mill on the Floss* is also strongly recommended.

Prerequisites: ENGA01, ENGA02; three further full-course equivalents in English, or one of ENGB05, ENGB06, ENGB16.

Enrolment limited to 15.
Session: Winter Day.
M. Cuddy-Keane

ENG90-99F/S Selected Topics in Twentieth Century Literature

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

ENG93F F. Scott Fitzgerald and Ernest Hemingway

A study of some patterns in American literature between the wars, as they emerge in the work of Fitzgerald and Hemingway. Texts will include at least two novels and some short fiction, letters, and critical writing by each novelist. (*The Great Gatsby*, *Tender is the Night*, *The Sun Also Rises*, *A Farewell to Arms*, etc.). Evaluation will be based on a term paper, a seminar presentation, and several short assignments.

Prerequisites: ENGA01, ENGA02; and three further full-course equivalents in English, or one of ENGB31, ENGB32, ENGB33.

Enrolment limited to 15.
Session: Winter Day.
K. Theil

ENG94S James Joyce

A study of continuity and development in the work of Joyce. Texts include: *Stephen Hero*, *A Portrait of the Artist*, *Dubliners*, *Exiles*, *Ulysses*, and selections from *Finnegan's Wake*. *The Odyssey*, some Joyce letters, and some critical material will also be required reading. Evaluation will be based on a term paper, a seminar presentation, and several short assignments.

Prerequisites: ENGA01, ENGA02; and three further full-course equivalents in English, or one of ENGB31, ENGB32, ENGB33.

Enrolment limited to 15.
Session: Winter Day.
K. Theil

Courses Not Offered in 1983-84

ENGB02Y Chaucer
Corequisite*: ENGA01, ENGA02; or ENGB15

ENGB05Y Romantic Poetry
Prerequisite*: ENGA01, ENGA02; or ENGB15

ENGB07Y Canadian Literature in English: An Introduction

ENGB08Y American Literature: An Introduction

ENGB17Y Fiction before 1832
Prerequisite*: ENAB01, ENGA02; or ENGB14

ENGB25F/ENGB32Y

The Canadian Short Story

Modern Poetry
Prerequisite: ENGA01, ENGA02; or ENGB15

ENG01Y

Advanced Studies in Beowulf and Other Old English Poetry

Prerequisite: ENGB01

ENG03Y

Studies in Middle English Language and Literature

Prerequisite: ENGB01; ENGB02

ENG04Y

Studies in Renaissance Literature

Prerequisite: ENGA01, ENGA02; three further full-course equivalents in English, or one of ENGB09, ENGB10, ENGB12

ENG05Y

Studies in Restoration and Eighteenth Century Literature

Prerequisite: ENGA01, ENGA02; three further full-course equivalents in English, or one of ENGB04, ENGB17

ENG06Y

Studies in Nineteenth Century Literature

Prerequisite: ENGA01, ENGA02; three further full-course equivalents in English, or one of ENGB05, ENGB06, ENGB16

ENG08Y

Studies in Twentieth Century Literature

Prerequisite: ENGA01, ENGA02; three further full-course equivalents in English, or one of ENGB31, ENGB32, ENGB33

ENG24Y

Topics in American Literature

Prerequisite: One of ENGA08; ENGB24; one other B-level full-course equivalent in English

ENG40F

Women Poets

Prerequisite: Three full-course equivalents in English, at least one at B-level; or two courses in English, at least one at B-level, and one in Women's Studies

ENG77F

Landscape and Literature

Prerequisite: ENGA01, ENGA02; and three further course equivalents in English, or one full-course equivalent from ENGB04, ENGB17, ENGB71, ENGB72, ENGB73.

ENG80S

Selected Topics in Nineteenth

Century Literature: Dickens

Exclusion: ENG41F/S
Prerequisite: ENGA01, ENGA02; and three further full-course equivalents in English; or one of ENGB05, ENGB06, ENGB16

Fine Art

- ENG82S** English Writers and the French Revolution
Prerequisites ENGA01, ENGA02; and three further full-course equivalents in English; or one of ENGB05, ENGB06, ENGB16.
- ENG90F** Selected Topics in Twentieth Century Literature
Prerequisite: ENGA01, ENGA02; and three further full-course equivalents in English; or one of ENGB31, ENGB32, ENGB33.
- ENG91S** Selected Topics in 20th Century Literature: Virginia Woolf
Prerequisite: ENGA01, ENGA02; and three further full-course equivalents in English; or one of ENGB31, ENGB32, ENGB33.
- ENG92F** Selected Topics in 20th Century Literature: Contemporary Novel in America
Prerequisite: ENGA01, ENGA02; and three further full course equivalents in English, or one of ENGB31, ENGB32, ENGB33.

Discipline Representative: L. Carney
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 page 24 of this calendar.)

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

Students in studio courses are required to meet part of the cost of materials for each half-course.

Specialist Programme in Fine Art History

Supervisor: R. Siebelhoff (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. One two-hour lecture per week. Visits to R.O.M. and A.G.O.

Exclusion: (FARA04)

Session: Winter Evening

M. Shaw

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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. Two hours of slide lectures weekly and trips to the Royal Ontario Museum.

Exclusion: (FARB24)

Session: Winter Day

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. Two hours of lectures per week; class participation is encouraged. Slides and films will be used and visits will be made to the A.G.O. and the R.O.M. The course texts are Frederick Hartt, *Art, A History of Painting, Sculpture, Architecture. Vol. II, Renaissance, Baroque, Modern World*. New York, Abrams, 1976.

Exclusion: (FARA03), (FARA04)

Session: Winter Day

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.

Exclusion: (FARA03), (FARA04)

Session: Winter Day

R. Siebelhoff

FARB02S Wallpainting in Ancient Egypt and the Aegean Bronze Age (ca. 3200 B.C. - ca. 1200 B.C.)

The course will trace the development of painted mural decoration in tombs and temples of Ancient Egypt and in houses and palaces of Crete, other Greek islands, and Mainland Greece.

Modes of representation, techniques and possible inter-relationships between these areas will also be examined. There will be one two-hour lecture weekly.

Exclusion: (FARB42)

Session: Winter Day

M. Shaw

d6906

FARB11F Gothic Architecture

A development of Gothic architecture from the beginning of the twelfth century to the middle of the thirteenth century.

Emphasis will be placed upon Notre-Dame in Paris, upon the cathedrals of Chartres, Reims and Amiens, and upon a select number of monuments in England. A discussion of the sculptural programs of the said churches will be included. One two-hour lecture per week. Course texts: O. Von Simson, *The Gothic Cathedral*, Princeton 1962.

Session: Winter Day

M. Gervers

FARB15F Renaissance in Italy

The development of Painting in Italy, 1420 to 1520.

The course will focus on three major periods: the birth of an Early Renaissance style in Florence as represented by the work of Masaccio, Angelico, Uccello, Castagno; the dissemination

of this style outside of Florence during the second half of the 15th century through artists such as Piero della Francesca and Mantegna; the rise of a High Renaissance style in Florence, Rome, Venice (artists discussed: Leonardo da Vinci, Raphael, Michelangelo, Titian). Textbook: F. Hartt, *History of Italian Renaissance Art: Painting, Sculpture, Architecture*, New York 1969. Exclusion: (FARB03), (FARB23) Session: Winter Day G. Scavizzi

FARB16Y The Arts in Northern Europe Ca. 1400-1500

A study of the Northern Renaissance concerned with the emergence of the Burgundian Netherlands as a cultural unit.

The course will emphasize the development of painting from the Van Eycks to Hugo van der Goes against a background of patronage from court and city. The first few lectures will deal with the geography and topography of the Burgundian Lands around 1400 and will proceed with a historical survey of the area during the fifteenth century, including aspects of the interaction between Flanders and Northern France. Then the origins of Netherlandish painting will be explored by looking at some of the major manuscript workshops and the panel painters who followed. The works presented will be used to illustrate some of the problems faced by art historians, such as attribution of works upon documentary, stylistic and iconographic grounds. There will be two hours of lectures per week with class participation encouraged. Use of slides and films, visits to A.G.O., R.O.M.. The course text is: Ch. Cuttler, *Northern Painting*, New York, (soft cover edition) 1968. Exclusion: (FARB22) Session: Winter Evening R. Siebelhoff

FARB41F Architecture in the Western World Since 1750.

An introduction to the history of architecture, landscape architecture and town planning in the modern period" (i.e. since the middle of the eighteenth century)

This course concentrates on key monuments to illustrate some of the major issues in the man-made environment over more than two centuries and deals especially with aesthetic, stylistic, social, political, religious, technological and urbanistic factors in the evolution of various building types. Some background in the earlier

history of architecture, in cultural history, in historical geography, or in urban studies is helpful. Recommended preparation: FARA12, FARA13 Session: Winter Day D. Richardson

FARB46F Gauguin, Seurat, van Gogh, Cézanne

The painting and drawing of four pioneers of modern art.

The course offers a detailed study of the major post-impressionist artists, their roots in impressionism, the highly independent directions of their careers, and the establishment of artistic principles that extend far into the twentieth century. The class will meet weekly for a two-hour slide lecture with occasional films.

Exclusion: (FARB28)

Session: Winter Day

L. Carney

FARB47F Nineteenth Century Realism

A study of the most important artistic movement between Romanticism and Impressionism.

The aim of the Realist artist was to represent the real world in an objective and impartial way. Realism had major representatives in England and Germany, but its greatest flowering occurred in France between ca. 1840 and 1880. The course will trace the careers of Millet and Courbet in France, the Pre-Raphaelites in England, and several German artists. Bibliography includes Linda Nochlin, *Realism* (Penguin, 1971) and Linda Nochlin, *Realism and Tradition in Art 1848-1900* (Prentice-Hall, 1966).

There will be two hours of lectures per week with class participation encouraged. Slides and films will be used, and visits paid to the A.G.O. and, if possible, to the Albright-Knox gallery in Buffalo.

Session: Winter Day

R. Siebelhoff

FARB54F New York in the Twentieth Century

A study emphasizing major New York painters and sculptors from the first half of this century.

The course surveys 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.

There will be a two-hour slide lecture each week, with class participation encouraged. The class will make a day trip to the Albright-Knox

Gallery in Buffalo, and a weekend trip to New York City if this can be arranged. Bibliography will be discussed in class.

Prerequisite: Recommended preparation or companion courses: FARA13 or FARB48

Session: Winter Day
L. Carney

FARB60Y The Arts in Canada: 1670-1960

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.

There will be a two-hour lecture each week, with visits to important Canadian art collections. FARA13 is recommended but not required as preparation.

Exclusion: (FARB20)
Session: Winter Evening
L. Carney

FARB62S Recent Canadian Art

An introduction to the work of major Canadian artists, chiefly painters and sculptors, from the last three decades.

Each weekly session will be devoted to the work of either one or two artists of national importance. The course will also examine these painters' and sculptors' links with traditions in art.

The class will meet for a two-hour slide lecture each week. Taped interviews and films will also be used. The bibliography will consist mostly of exhibition catalogues, and will be discussed in class.

Prerequisite: Another course in modern art 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.

FARC11F Frans Hals, Rembrandt and Vermeer

An advanced examination of the work of the three principal masters of the seventeenth century in Holland.

This study of Dutch Baroque painting explores artistic developments in Haarlem, Amsterdam and Delft. The various styles will be considered from the point of view of the centre in which each artist worked and the generation to which he belonged. The course will also focus on subject matter, technique, outside influences and chronology. Lectures, slides, films and visits to galleries.

Prerequisite: One full course equivalent at the B-level in Fine Art History, preferably FARB29

Session: Winter Day
R. Siebelhoff

FARC12F Southern Baroque Art: Gianlorenzo Bernini

An historical study of Bernini's sculpture and architecture, and their roles in the social and religious life of 17th-century Rome. Bernini's rhetorical inventions will be analyzed as successful translations into art of Catholic ideals of the papacy and the Roman nobility. The correlation of visual form and expressive intent, which ranged from pagan delight to mystical ecstasy, will be considered. Evaluation: slide test and research paper. Texts: Howard Hibbard, *Bernini*, Baltimore 1974; Irving Lavin, *Bernini and the Unity of the Visual Arts*, Oxford, 1981.

Prerequisite: One full-course equivalent at the B-level in art history.
Session: Winter Day.
P. Sohm

FARC14S Art Around 1900

The exploration of Symbolism and Art Nouveau with reference to the stylistic and literary origins.

This study emphasizes the development in several centres such as Paris, Vienna and Munich. The coincidence of these developments will be researched, and the contribution of individual artists will be evaluated. Since literary prototypes of the visual images are of major importance they will be carefully looked at. Bibliography includes: Mario Praz, *The Romantic Agony*, London-New York, Oxford University Press, 1970 (There exist several editions); and Robert Schmutzler, *Art Nouveau*, New York, Abrams,

1962 (now available in soft cover). The teaching method will involve lectures, slides, films and visits to galleries.

Prerequisite: One full-course equivalent at the B-level in Art History

Session: Winter Day
R. Siebelhoff

FARA70F Two and Three Dimensional Design

An introduction to the basic principles of visual design for the student interested in the visual arts, but not intending to pursue the Specialist Programmes.

The student will investigate basic principles in design and composition, developing a familiarity with both the verbal and visual vocabulary. There will be lectures, demonstrations and group critiques. The student will work in class and be given weekly assignments related to that work.

Three hours per week. Limited enrolment: 20
Session: Winter Day, Winter Evening
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 Evening
J. Hoogstraten

FARB72F Introduction to Printmaking (Screen Process Printing)

Materials and methods in edition printing.

This course is designed to introduce the student to the art of printmaking through the use of the silk screen medium. The course will include lectures and demonstrations of the silkscreen, etching, and lithographic techniques of printmaking. The student will be expected to conceive and print several serigraphs. Trips to public and private galleries to view prints will be mandatory. Three hours per week. Lab fee \$45.00. Limited Enrolment: 15.

Prerequisite: FARA90 or permission of instructor
Corequisite: FARB70
Session: Winter Evening
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 Evening
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 Day
J. Hoogstraten

FARB76B Intermediate Painting I

A course designed to develop competence in contemporary materials with an emphasis on understanding recent attitudes in painting.

Limited Enrolment: 15

Prerequisite: FARB75 or permission of instructor
Session: Summer Day-Summer Arts Programme
S. Wiittisalo

FARB80F Drawing from the Figure I

An exploration of some of the aspects of drawing using the figure as the basis for this exploration.

This course will develop concepts in drawing using the figure as subject matter. The class will meet three hours every week for work in the studio and for personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. Lab fee \$40.00. Enrolment limited according to space available and permission of instructor.

Prerequisite: FARB74 or permission of instructor
Session: Summer Evening-Summer Arts Programme
S. Burgess

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 limited according to space available and permission of instructor.

Prerequisite: FARB74 or permission of instructor
Session: Summer Evening-Summer Arts Programme
S. Burgess

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. Three hours per week of studio work. Lab fee \$45.00. Limited enrolment: 10.

Prerequisite: FARA90; FARB72 or permission of instructor
Session: Winter Day
D. Holman

FARB83S Intermediate Lithography

An extension of FARB82.

The objective of the course is to further explore the art of stone lithography in 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 Day
D. Holman

FARB84A Introduction to Etching

An introduction to etching and relief printing exploring the use of materials and techniques involved in the process of creative 'Fine Art Printing'. Lab Fee \$45.00. Limited Enrolment: 15.

Prerequisite: FARB72 or permission of instructor
Session: Summer Evening - Summer Arts Programme
B. Sheckter

FARB85B Intermediate Etching

A studio course designed to expand the student's knowledge of etching and relief printing. Lab Fee \$45.00. Limited Enrolment: 15.

Prerequisite: FARB84 or permission of instructor
Session: Summer Day - Summer Arts Programme
O. Tamasauskas

FARB90F**FARB91S Supervised Studies in Studio: Intermediate Level**

These courses may be in any of the fields of drawing, painting and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. The courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to

meet with instructors on a regular basis for criticisms of work in progress.

The proposal submitted to the instructors must specify as clearly as possible the nature of research and experimentation, number of works to be completed, deadlines for projects, and criteria for evaluating the sort of work they wish to do. Students must be prepared to be critical of their own work, and to pursue areas of research determined in co-operation with the instructors. Since these courses usually lead to independent study courses at the C-level, students might consider how they fit into a projected programme of study. Students are also advised to speak to instructors as far in advance as possible of submitting proposals.

Limited enrolment: 3.

Prerequisite: FARA90, and permission of instructor, which is based on the evaluation of the proposal and/or portfolio
Session: Winter Day
D. Holman, J. Hoogstraten

FARB92Y Introduction to Sculpture Concepts

An investigation of current attitudes in sculpture.

This course will familiarize the student with current explorations of space, time, motion and sound. Practising artists will speak about their concerns in a lecture discussion format. Students will be required to produce a number of working drawings in response to these and other sculptural concerns. Texts will include Rosalind E. Krauss' *Passages in Modern Sculpture* and Gregory Battcock's *Minimal Art: A Critical Anthology*. Limited enrolment: 15.

Prerequisite: FARA90 or permission of instructor
Session: Winter Day
J. Hoogstraten

FARC21Y Advanced Studio: Individual Study in Painting

This course is only for students who would like to develop further a mature painting ability. Students must convince the instructors that they are able and willing to assume the responsibility to carry this course without intensive guidance.

The student will have an opportunity to work independently while receiving ongoing, advanced criticism from the instructors. The content of this course, methods to be used, and evaluation of work are determined co-operatively by the student and the instructors. Limited enrolment: 5.
Prerequisite: Permission of instructor must be obtained by the first week of classes.
Session: Winter Day
J. Hoogstraten

FARC22Y Advanced Studio: Individual Study in Printmaking

The purpose of this course is to give the promising student an opportunity to work independently while receiving advanced criticism. The content, method and evaluation of the course will be decided upon by both the student and instructor. Limited enrolment: 5.

Prerequisite: Permission of instructor must be obtained by the first week of classes.

Session: Winter Day
D. Holman

FARC24F

FARC25S Independent Studies in Studio: Advanced Level

These courses may be in any one of the fields of drawing, painting and printmaking. Limited enrolment: 3.

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

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

Session: Winter Day
D. Holman

FARC90F

FARC91S Independent Studies in Studio: Advanced Level

These courses may be in any one of the fields of drawing, painting and printmaking.

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

Content, method and evaluation to be planned in 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 1983-84

FARB04S Archaic Greek Sculpture (650-480 B.C.)

FARB05S Classical Greek Sculpture (480-300 B.C.)

FARB06F Ancient Rome
FARB10F Carolingian and Romanesque Art and Architecture

Prerequisite: FARA11 Highly recommended

Corequisite: FARA11 Highly recommended

FARB19F Michelangelo

Exclusion: (FARB32)

FARB27F Baroque Painting in Southern Europe 1600-1650

Exclusions: (FARB39Y), (FARB44Y)

FARB29Y Baroque Painting in the Netherlands

Exclusion: (FARB17)

FARB37F From David to Delacroix

Exclusion: (FARB13)

FARB43S Impressionism

Exclusion: (FARB14), (FARB51)

FARB48F Art from 1900-1950

Pre- or Corequisite: FARA13Y recommended but not required

FARB61Y The Canadian Landscape
FARB77B Intermediate Painting II

Prerequisite: FARB76 or permission of Instructor.

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.

FARC13F/S Eighteenth and Nineteenth Century

FARC15F/S Cubism and Related Movements

Exclusion: (FARB52)

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

FARC16F/S Expressionist Trends

Pre- or Corequisite: FARB46 or FARB48 and at least one additional half-course in Art History.

French

Discipline Representative: J. Kirkness

The courses offered in French are designed primarily for students with Grade 13 French who wish to continue their study of the language and of the literature of France and French Canada. Students without Grade 13 French or an equivalent background who wish to qualify for FARB06, or simply to begin their study of the subject, will find opportunities in FRE A-level language courses offered throughout the year and/or in the summer at the Scarborough Language Institute. FARB06 serves to consolidate the previous experience of students in the understanding and use of the language.

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

- The regular courses*, offered during the Winter session, which provide language instruction on a three- to four-hour per week basis (A06Y, A16Y, B06Y, B16Y and C06Y);
- The immersion courses*, available in the Summer term and which are described in detail in the 1983 Scarborough Language Institute Information Package.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Specialist Programme in French are invited to consider taking both FARB06 and FARB02 in their first year, or, if they enrol in intensive courses, to combine FARB06A, FARB16B and FARB02Y. They may then choose courses from within the following groups:

- the main trends of French and French Canadian literature;
- the genres: poetry, theatre and novel in various periods;
- advanced language;
- language practice courses.

Note: Students may include only one Civilization[®] course for credit in the three programmes named below; they may thus take for programme credit EITHER FARB20 OR FARB21 and/or FARC33.

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

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

Specialist Programme in French

Supervisor: J. Curtis (284-3186)

Students should complete twelve full-course equivalents, including:

- 1 the sequence FREB06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y), (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- 2 one of the following courses: FREB25Y, FREB42F-43S, FREB48Y, FREC09Y
- 3 three full-course equivalents in French and French Canadian Literature, one of which should deal with a period prior to 1800 and one with a period after 1800
- 4 four full-course equivalents at C-level (or from the 300 and 400 series courses offered on the St. George Campus). Both FREC06Y (FREC01Y) and supervised reading courses may count toward this requirement.
- 5 It is recommended that the student include in his/her Programme one full-course equivalent from the series FREC02-C07, FREC90 (Supervised Reading) involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2), (3) and (4) above.) Normally, no more than two full-course equivalents in the area of supervised reading may be credited for requirements for the Specialist Programme.
- 6 Two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor.

The following may not count toward a Specialist Programme:

- 1 any A-level French course except (FREA01) and (FREA02)
- 2 more than two courses from the series FRE425 to FRE469, (specialized seminars) offered on the St. George Campus.
- 3 FREB18 (Commercial French).

Major Programme in French Language

Supervisor: J. Curtis (284-3186)

Students should complete seven full-course equivalents, including:

- 1 FREB06Y (FREA01Y), FREB16Y (FREB01Y), FREC06Y (FREC01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- 2 two full-course equivalents from the following: FREB07F/S and/or FREB17F/S or FREC16Y (C99Y); FREB18Y, FREB25Y, FREB42F-FREB43S, FREB48Y, FREC09Y

- 3 two other full-course equivalents in French, only one of which may be chosen from group (2).

- 4 Students may include in their Programme a maximum of one supervised reading course.

The following may not count toward a Major Programme in French Language:

- 1 any A-level French course except (FREA01) and (FREA02)

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 (FREA01Y), FREB16Y (FREB01Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- 2 one of the following courses: FREB25Y, FREB42F-43S, FREB48Y, FREC06Y (FREC01Y), FREC09Y, FREC16Y (FRE99Y)
- 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)

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.

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.

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

FREA06Y Introductory French

A basic course in spoken and written French for students with very little or no background in the language.

Four class hours and one language laboratory hour per week. Students wishing to take this course will be asked to take a placement test to identify those who may have the necessary competence for FREA16.

Exclusion: (FREA00)

Session: Winter Day, Summer Day (see FREA06B in the 1983 Scarborough Language Institute Information Package)

C. Evans and staff

FREA07S Elementary Conversation I

Intensive practice in spoken French through controlled situational oral work. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French Language.

Exclusion: (FREA04)

Co-requisite: FREA06

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)

L. Mignault

FREA16B Elementary French

Spoken and written French studies for students with some background in the language but without Grade 13 High School French.

This is an intensive course using an innovative teaching approach which stresses effective oral communication skills while developing reading and writing skills. Practice is given priority over formal grammar studies.

Exclusion: Grade 13 French or equivalent.

Prerequisite: FREA06. For those students who lack the prerequisite, admission to this course is through a placement test to be held soon after the beginning of classes.

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)

L. Mignault

FREA16Y Elementary French

Spoken and written French studies for students with some background in the language but without Grade 13 High School French.

Four class hours per week are devoted to the study of written and spoken French. There is also one laboratory period a week specifically designed for oral-aural practice. This course prepares students to enter FREB06. Textbooks:

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

Exclusion: Grade 13 French or equivalent

Prerequisite:

FREA06. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes.

Session: Winter Day

F. Mugnier-Manfredi and staff

FREA17S Elementary Conversation II

Intensive practice in spoken French through controlled situational oral work. This course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. Some background in French is required.

Exclusion: (FREA05)

Co-requisite: FREA16

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)

L. Mignault

FREB02Y Introduction to Literary Analysis

An introduction to methods of critical analysis through the study of selected works from the fields of French drama, fiction and poetry of the nineteenth and twentieth centuries.

FREB02 is intended to prepare the student for more advanced study in French and French-Canadian literature. It deals with a wide range of themes, styles and genres, and can also provide, for the non-specialist, an introduction to several major writers of the modern period.

Two hours of classes a week are devoted to lecture *expliquée*, class discussion and student presentations.

Prerequisite: Grade 13 French or equivalent or FREA16 (FREA00)

Co-requisite: FREB06 (FREA01)

Session: Winter Day

P. Moes and staff

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.

This is an intensive course designed to bring students to the level of entering FREB16 in one term rather than two. The class meets for grammar review, vocabulary-building exercises, reading and discussion of texts, debates and other exercises that class and instructor may choose to devise.

Exclusion: (FREA01), native or near-native proficiency in French

Prerequisite: Grade 13 French or FREA16 (or FREA00) or equivalent

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREB06Y Language Practice I

This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.

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.

Opportunity is provided to take this course in an intensive version in the Summer session (see FREB06B). For students planning to specialize in French, FREB02 is also recommended.

Exclusion: (FREA01), native or near-native proficiency in French

Prerequisite: Grade 13 French or FREA16 (or FREA00) or equivalent

Session: Winter Day
L.E. Doucette and staff

FREB07S Intermediate Conversation I

Intensive practice in the spoken language through controlled situational oral work and discussion groups. Offered only in the immersion programme of the Scarborough Language Institute, this course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language.

Exclusion: (FREB04), (FREB05)

Prerequisite: (FREA00) or FREA16 or Grade 13 French

Corequisite: FREB06

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREB16B Language Practice II

A continuation of FREB06 work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.

This is an intensive course designed to bring students to the level of entering FREB06 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. This course is concerned with the development of fluency, accuracy of expression, and style.

Exclusion: (FREB01)

Prerequisite: FREB06 or (FREA01) or equivalent

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

FREB16Y Language Practice II

A continuation of FREB06 work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.

This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet three hours per week.

Please note that opportunity is provided to take this course in an intensive version in the Summer session (see FREB16B).

Exclusion: (FREB01)

Prerequisite: FREB06 (FREA01) or equivalent

Session: Winter Day, Winter Evening

J. Bancroft and staff

FREB17S Intermediate Conversation II

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

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.

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One hour weekly for lecturing, vocabulary building and testing; two hours weekly for oral practice.

Students should arrange to have no other courses scheduled during the six hours allotted for this course on the time-table.

Exclusion: (FREB04), (FREB05)

Prerequisite: FREB06 or (FREA01)

Corequisite: FREB16

Session: Winter Day, Summer Day (see the 1983 Scarborough Language Institute Information Package)

L. Mignault and staff

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*.

Prerequisites: FREB06, or permission of the instructor.

Session: Winter Day

W.J. Bancroft and staff

FREB21F France Today

An introduction to the study of political, social, and intellectual developments in France since 1945.

The topics to be discussed will include France and the European community; France and the francophone world; the political parties; the unions; the socialist experience; decentralization; decolonization; the educational system; the media; cultural values. This course is designed to interest both the specialist and the non-specialist; in particular, it provides valuable background for advanced literature courses (and for FREC33S).

Textbook: *Civilization française quotidienne*, by M. Paoletti and R. Steele-Natier, 1981.

Prerequisite: FREB06

Session: Winter Day

F. Mignier

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

An introduction to French Literature of the eighteenth century.

This course deals with the nature of the French Enlightenment and the way in which its principal ideas and ideals find expression in works of fiction as well as non-fiction. Texts include works by the *philosophes* Montesquieu (*Lettres persanes*), Voltaire (*Candide*), Rousseau (*Discours sur l'inégalité*); by the novelist Prévost (*Manon Lescaut*); and by the dramatist Beaumarchais (*le Barbier de Séville*). An anthology, *The Age of Enlightenment*, by Fellows and Torrey (eds.), provides a broad choice of additional texts.

Prerequisite: FREB06 (FREA01)

Session: Winter Evening

P. Moes

FREB26Y The Romantic Current in French Literature

Analysis of *romanticism* in nineteenth century literature, with attention to the main writers of the period.

Some introductory lectures will be devoted to exploring the origins of French Romanticism, the spread of Romanticism in Europe, historical events and social changes which contributed to the formation of the Romantic Movement. The remainder of the course will alternate between lectures, discussions and analyses of specific works by prominent authors from the first half of the nineteenth century.

Prerequisite: FREB06 (FREA01)

Session: Winter Day

G. Trembley

FREB38F The Theatre of French Canada

A study of the dramatic literature of French Canada, with emphasis on the period after 1960.

A brief introduction to the history of Theatre in French in this country is provided, but the required texts all come from the period of the past thirty years and are intended to reflect the cultural and political renaissance of Québec and Acadia. Texts will probably include: Crélinas, *Tit-Coq*; Dubé, *Un simple Soldat*; Loranger, *Une Maison, un jour*; Barbeau, *Joualez-moi d'amour*; Tremblay, *Les Belles-soeurs*; Mailliet, *La Sagouine*; Boucher, *Les Fées ont soif*.

Prerequisite: FREB06 (FREA01) or equivalent.

Session: Winter Day

L.E. Doucette

FREB39S Workshop in Modern French Theatre

A discussion of performing techniques combined with practical work in staging and acting modern French plays. This will result in the production of at least one play.

Prerequisite: FREB16 (FREB01) or equivalent language ability.

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)
L. Mignault

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 (FREB01) *can call*
Session: Winter Day

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 (FREB01)

Session: Winter Day

J. Curtis

FREB42F General History of the French Language

The evolution from Latin to Modern French.

Topics will be chosen for study from the history of French, from its origin in Latin to the present; reference will be made to social and regional variations in the standard language as well as to the influence of other languages on its development.

Prerequisite: FREB06 (FREB01). Students specializing in French language and literature are urged to take FREB43S as a companion course.

Session: Winter Evening

J. Kirkness

FREB43S The French Language in Canada

The history and present state of the French Language in Canada.

Topics will be chosen for study from the history of the expansion of French beyond Europe (with particular reference to North America) and the development and current status of French in Canada.

Prerequisite: FREB06 (FREB01). Students specializing in French language or literature are urged to take FREB42F as a companion course.

Session: Winter Evening

J. Kirkness

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: 20.

Prerequisite: FREB06 (FREB01)

Session: Winter Day

G. Trembley

FREB49Y The Twentieth Century: The Search for Identity

A study of the social, political and philosophical ideas of such writers as Camus, Sartre, Malraux, Nizan, Céline, Beckett, Genet and Saint-Exupéry.

Attention will focus on the thematic content of specific texts. Novels will not necessarily be studied in chronological order, although some historical background will be provided.

Students interested in taking FREB49Y might wish to consult a general account of the twentieth century French novel, e.g., *An Age of Fiction* by Germaine Brée and Margaret Guillon.

Exclusion: (FREB35)

Prerequisite: FREB06 (FREB01)

Session: Winter Day

S.E. Mittler, L.B. Mignault

FREB80F Images of Women in French Literature

A study of women characters in French Literature.

This course consists of an analysis of the portrayal of women and of the concept of femininity as presented by prominent male authors from the seventeenth century to the present. On the one hand stereotyped roles assigned to female characters (wife, mother, sexual object, etc.) will be traced, examined and discussed; on the other hand an effort will be made to discover and investigate the dominant myths women have come to embody for the male imagination and the functions these myths serve (the shrew, the *femme fatale*, etc.).

Readings will include plays and novels by Molière, Flaubert, Maupassant, Claudel, Mauriac and Genet.

Exclusion: HUMB42

Prerequisite: FREB06 (FREB01)

Session: Winter Day

C. Bertrand-Jennings

FREB81S Women's Consciousness in French Literature

This course will attempt to trace the history of women's role in French literature and to analyze the concept of femininity as experienced and described by prominent female authors from the seventeenth century to the present. Authors studied will include LaFayette, Sand, Colette, Sarraute, de Beauvoir, and Wittig.

The class will meet for two hours per week; lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.

Prerequisite: FREB06 (FREB01)

Session: Winter Day

C. Bertrand-Jennings

FREC06B Language Practice III

A continuation of FREB16 (FREB01), including reading, grammar, composition, translation and stylistic exercises, discussion and/or debates.

This is an intensive course designed to bring the student to an advanced level of competence in written and oral skills. Vocabulary building exercises and grammar studies are combined with innovative techniques to develop effective communication skills.

Emphasis in this course will be put equally on the oral and written components of French through (a) the study of grammar, (b) the reading and analysis of texts in modern prose, (c) the

writing of essays in French, (d) discussions in the classroom. The two required textbooks (J. Darbelnet, *Pensée et Structure*; *Contes modernes 3rd edition*), being used in conjunction, are intended to reinforce the students' proficiency in the language.

Exclusion: (FREB01)

Prerequisite: FREB16 (FREB01)

Session: Summer Day (see FREC06B in the 1983 Scarborough Language Institute Information Package). Part-time students who are required to take FREC06Y in order to complete their programme, but are unable to do so during the session provided, are advised that the equivalent course, FRE371, is available to them Winter Evening at Woodsworth College, St. George Campus.

L. Mignault

FREC06Y Language Practice III

A continuation of FREB16 (FREB01), including reading, grammar, composition, translation and stylistic exercises, discussion and/or debates.

Emphasis in this course will be put equally on the oral and written components of French through (a) the study of grammar, (b) the reading and analysis of texts in modern prose, (c) the writing of essays in French, (d) discussions in the classroom. The two required textbooks (J. Darbelnet, *Pensée et Structure*; *Contes modernes 3rd edition*), being used in conjunction are intended to reinforce the students' proficiency in the language.

Exclusion: (FREB01)

Prerequisite: FREB16 (FREB01)

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 provided, are advised that the equivalent course, FRE371, is available to them Winter Evening at Woodsworth College, St. George Campus.

G. Trembley

FREC02F**FREC03S****FREC04F****FREC05S****FREC07S**

Supervised Reading
(see FREC90Y for description)

FREC90Y Supervised Reading

These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should contact Prof. S. Mittler.

Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17.
Session: Winter Day

FREC09Y Problems in Translation

A comparative study of expression in English and French, including practice in translating and analysis of selected examples of the translator's art.

Basic terminology and concepts of comparative stylistics will be studied in *Stylistique comparée du français et de l'anglais* by Vinay and Darbelnet (pub. Beauchemin; text and workbook). On the practical side, there will be translating and discussion of passages in English and in French representing various styles and levels of expression: formal, colloquial, technical, literary, journalistic. Two hours a week for discussion and practical work.

Prerequisite: FREB16 (FREB01)

Session: Winter Day

J. Curtis

FREC16B Advanced French

A language practice course which continues the FREB06-FREB16-FREC06 sequence; it includes reading and composition, translation and stylistics, oral reviews and debates. Information will be available at a later date in Room H332A.

This course is offered only in the immersion programme of the Scarborough Language Institute.

Exclusion: (FREC99)

Prerequisite: FREC06 (FREC01)

Session: Summer Day (see the 1983 Scarborough Language Institute Information Package)

L. Mignault

FREC25Y Literature of the Renaissance

A study of sixteenth-century French literature, including Rabelais, Montaigne and the major poets.

During the fall term, the major schools of poetry and their exponents (Marot, Ronsard, Du Bellay, d'Aubigné) will be studied. Although some of the texts will be read in modernized versions, a good deal of time will be devoted at first to introducing the student to sixteenth-century French. The second term is devoted to the works of Rabelais and Montaigne. Texts will include Ronsard, *Poèmes* Du Bellay, *Défense et illustration* and poetic works; Rabelais, *Oeuvres complètes*; Montaigne, *Essais*. For useful background reading, see J. Cruikshank, *French Literature and its Background: I. The Sixteenth Century*; and D. Stone, *France in the 16th Century*.

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

Session: Winter Day

J. Curtis, L.E. Doucette

FREC33S French Civilization: Continuity and Change

Some of the theses of leading French thinkers concerning the development of France in the past, present and future.

This course is directed to students who wish a broad historical overview of the social events and literary movements they normally study in period and genre fragments. The first half of the course will look chronologically at behavioural patterns in specific periods of French cultural history that include the Middle Ages, the Renaissance, the Enlightenment and the Romantic era; two of the most enduring patterns, the rational and individualist traditions, will then be analysed and their mutation through the centuries developed as a focus through which to view, in the second half of the course, contemporary French issues such as technological progress, superpower alternatives, mass consumption and the safeguarding of the quality of life. Texts, alternately artistic, sociological, economic or political in content, will include selections from Aries, Bernal, Crozier, Duby, Foucault, Le Roy Ladurie, Touraine, Zeldin, and other scholars.

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

Session: Winter Day

S.E. Mittler

FREC39S French-Canadian Poetry

The development of Canadian poetry in French from the middle of the nineteenth century to the present, with emphasis on the contemporary period.

After the initial few lectures in which a general introduction to prosody and to the origins of French-Canadian poetry is provided, this course is heavily weighted towards the twentieth century. Much emphasis will be given to modern poets such as Saint-Denys Garneau, Anne Hébert and Alain Grandbois. Texts will include L. Mailhot and P. Nepveu, *La Poésie québécoise: Anthologie*, and paperback editions of works by various individual authors, depending on availability.

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

Session: Winter Day

L.E. Doucette

FREC40Y Modern French Poetry from Baudelaire to Valéry

A study of such major nineteenth century post-Romantic poets as Baudelaire, Gautier, Nerval, Verlaine, Mallarmé and Rimbaud. Twentieth century poets will include such major figures as Apollinaire, Péguy, Claudel and Valéry. Emphasis will be placed on the characteristic aspects of French Poetry and on poetic analysis rather than on historical development.

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

Session: Winter Day

W.J. Bancroft

Cancelled

Courses Not Offered in 1983-84

- FREB20Y** History of French Civilization
FREB25Y Introduction to French Linguistics
Prerequisite: FREB06 (FREB01)
- FREB29S** French Drama of the Eighteenth Century
Prerequisite: FREB06 (FREB01)
- FREB30F** French Theatre of the Early Modern Period
Prerequisite: FREB06 (FREB01)
- FREB31S** Contemporary French Theatre: The Theatre and the Absurd
Prerequisite: FREB06 (FREB01)
- FREB32F** The Writer and Nineteenth Century Society
Exclusion: (FREC10)
Prerequisite: FREB06
- FREB33S** Readings in Nineteenth Century French Fiction
Prerequisite: FREB06
- FREB34Y** From Romanticism to Naturalism
Exclusion: (FREC32); (FREC33)
Prerequisite: FREB06 (FREB01)
- FREB36F** French-Canadian Novel to 1945
Prerequisite: FREB06 (FREB01)
- FREB37S** French Canadian Novel since 1945
Prerequisites: FREB06 (FREB01)
- FREB70Y** The Twentieth Century: In Search of the Novel
Prerequisite: FREB06 (FREB01)
- FREC10S** Textual Analysis
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17
- FREC22Y** Introduction to Medieval French Language and Literature
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17.
- FREC23S** The French Novel in the Seventeenth Century
Prerequisite: One B-level course in the group FREB16 - B82, excluding FREB17. FREB40 and/or FREB41 are strongly recommended as background courses.
- FREC24F** The French Novel in the Eighteenth Century
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17.
- FREC34S** Cross-currents in Contemporary French Fiction
Prerequisite: One B-level course in the group FREB16 - FREB81, excluding FREB17

FREB17S
FREB21F
FREB40F
FREB41F

Geography

Assistant Chairman: E.C. Relf

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 GGRC12F/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, GGRB07Y, 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. 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 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, GGRC33Y, GGRC34F/S

GGRA04Y The Nature of Human Geography
Comparison of the major approaches to human geography - historical process, spatial organization, resources and environment, landscape and culture.

The course aims to identify and discuss some of the fundamental concepts of human geography, and to demonstrate the nature of the major approaches to the subject. The course consists of four main sections: (i) human settlements and urbanization, (ii) spatial patterns and disparities, (iii) environmental and resource use and abuse, (iv) modern landscapes and urban design.

Session: Winter Day

E.C. Relf

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

Problems of resource use with particular reference to their environmental setting: (i) definition and classification of resources, (ii) special problems relating to agricultural resources, (iii) specific aspects of the use of non-agricultural resources, (iv) an examination of the use, misuse and abuse of resources.

Resource issues are examined in two broad contexts: global resource problems and policies; themes and problems in Canadian resource management. The specific subjects discussed include: the world food problem; global patterns of energy consumption and production; use and management of the world's minerals; interna-

tional responses to resource inequalities; water development and management in Canada, pollution, conservation, environment and the law, problems of land management in Canada. Two Hours of Lectures per week.
Prerequisite: GGRA04 or GGRA05.
Session: Winter Day

GGRB03Y Climatology

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

Some of the major topics are: radiation and energy balance on a small scale; surface effects on these balances; gas flow in the atmosphere, atmosphere motion and winds; atmospheric water vapour and clouds, global circulation; air masses and fronts. Climatic variables, their measurements and use. Climatic change and the effect of climate on social and industrial activities.

Prerequisite: GGRA05

Session: Winter Day

GGRB05Y Urban Geography

A study of the forces and processes which give rise to urban places, which influence the growth and development of cities and systems of cities, and which influence the location of various types of human activities in the city.

The first half of the course focuses on the city in history and on urban systems - their evolution, regulation, classification, and abstract representation. The second half is concerned with the internal structure of the city, concentrating on residential, commercial and industrial land use patterns, and on transportation, migration and planning. Examples will be drawn in part from Canadian cities. Two hours of lectures per week.

Session: Winter Day

GGRB13Y Modern Landscapes and Built Environments

The character and architectural and social origins of twentieth century landscapes, and the ways in which places and landscapes can be appreciated and designed.

In the fall term the features of modern landscapes and their technological, cultural and architectural origins will be discussed. In the spring term emphasis will be on the experience and appreciation of landscapes, and on the problems and deficiencies of twentieth century built environments. Various approaches to environmental design will be examined. Field trips are planned during the fall term.

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

Session: Winter Day
E.C. Relp

GGRB15Y Coastal Geomorphology

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

Corequisite: GGRB19Y; GGRB31S is strongly recommended
Session: Winter Day
B. Greenwood

GGRB17Y Rural Geography

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

A thematic study of the geography of rural environments. Lectures and seminars will examine the distinctiveness of rurality, the evolution, elements and patterns of rural settlement, the rural resource base, agricultural land use, and contemporary issues in rural regions. These themes will be discussed in various cultural contexts.

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

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.

Prerequisite: GGRA05
Session: Winter Day
B. Greenwood

GGRB24Y Environmental Pollution

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

The aim is to examine the complexity of the controls in undisturbed water-air systems, and to give students an understanding of how the residue of human population and usage of water and solid quality of natural systems. Two hours of lecture and one hour of lab. per week.

Exclusion: (GGRC23)
Session: Summer Evening, Winter Day

GGRB27F Development Principles in Geography I

An introduction to theories of growth and development with emphasis on spatial or locational implications. Course topics include spatial patterns in economic activity, theories of trade and regional specialization, patterns of urbanization and their role in regional development, and the planning and management of growth.

In this course, spatial patterns of development and growth will be related to location and trade theories, land allocation processes, urban growth theory, city system linkages, and polarization forces. The role of the planner in shaping changes to these patterns will also be discussed. This course is intended to be taken in conjunction with GGRB28S. Two hours of lectures per week plus an additional tutorial hour as needed.

Exclusion: (GGRB06)
Prerequisite: GGRA04Y or an A-Level course in the Social Sciences.
Session: Winter Day
J. Miron

GGRB28S Development Principles in Geography II

An evaluation of the spatial and locational implications of economic and societal change. Varying theoretical interpretations of macro-economic growth are presented and analysed, and their value as tools for understanding spatial processes discussed.

In the course, the theories of the classical, neo-classical, and structuralist schools of economic and social development are discussed in relation to processes of urbanization, industrialization, removal polarization, migration and spatial inequality. The implications of each theory for planning and policy formulation will also be discussed. This course is intended to be taken with GGRB27F. Two hours of lectures per week plus an additional tutorial hour as needed.

Exclusion: (GGRB06)
Prerequisite: GGRB27
Session: Winter Day
J. Miron

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.

Exclusion: (GGRC15)
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.

Prerequisite: GGRA04 or GGRA05
Exclusions: GGRB21, GGRB22, GGRB25
Session: Winter Day

GGRB31S Analytical Methods in Geography

Topics will be taken from the following: classical and Bayesian probability theory, frequency and sampling distributions, population parameters and statistical estimation, hypothesis testing,

correlation and regression, sampling theory and analysis of variance. Applications to geographical problems include spatial sampling, trend surface analysis, evaluation of spatial patterns, and spatial auto-correlation. The course involves the use of microcomputers, package programmes and elementary computer programming. Two hours of lectures and two hours of laboratories per week.

Prerequisite: GGRA04 or GGRA05
Exclusions: GGRB02, ECOB11, PSYB07, SOCB06, STAB52, STAB57
Session: Winter Day
J. Miron

GGRC01Y Supervised Research

A research project under the supervision of a member of faculty. The project will culminate in a written report in the form of a dissertation. This may be based upon the results of library or archival research, field study, data analysis or other appropriate methods. Students will meet as a group with the coordinator as well as having frequent contact with their supervisor.

Prerequisite: Any fifteen full-course equivalents. By the end of year in which the student takes this course, at least eight full-course equivalents in Geography (not including GGRC01) must have been completed.
Session: Winter Day

GGRC04F Urbanization and Residential Geography

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

The course begins with a consideration of past and present trends in urbanization, and their relevance for regional planning and urban government. The major focus of the course is on residential differentiation or segregation and associated processes of neighbourhood change in the city, and on the quality of the residential environment, the provision of public goods, planning and the political processes involved. Each two-hour class will consist of a general lecture, a seminar presentation by a student and a discussion.

Prerequisite: GGRB05 or GGRB27/GGRB28.
Session: Winter Day

GGRC12S Contemporary Issues in the Philosophy of Geography

An examination of the major themes in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, philosophy of history, etc.). Alternative philosophical approaches of increasing popularity (phenomenology, Marxism, conceptual analysis) are also considered.

The aim of this course is to examine the relationships between the various types and approaches of geography, and to demonstrate some of the implications of the most widely adopted approaches.

Prerequisite: Any ten full-course equivalents. By the end of the year in which the student takes this course at least five other full-course equivalents in Geography must have been completed.

Session: Winter Day

E.C. Relf

GGRC13S (see courses not offered)

GGRC18F Urban Transportation Policy Analysis

An introduction to the analysis of urban transportation planning problems. Topics include the spatial impacts of transportation improvements, mass transit policy, environmental impacts, and evaluation in transportation planning. Three hours of lectures per week.

Prerequisite: GGRB05 or GGRB06 or GGRB27/GGRB28

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: GGRB05, GGRB13 or GGRB17. Students with a background in other Social Sciences disciplines may be interested in this course: they will be admitted with permission of instructor.

Session: Winter Day

GGRC25S Sedimentary Models

Basic principles of sediment transport mechanisms necessary for the interpretation of the physical properties of sedimentary bodies. Detailed examination of a wide range of modern sedimentary systems will be undertaken to establish analogues for paleoenvironmental interpretation. Topics include: fundamental sediment properties, facies definition, tectonics and sedimentation, cyclic sedimentation, facies models, paleohydraulic interpretations. Two hours lecture and two hours lab/field trip per week.

Prerequisite: GGRB07 or GGRB15

Session: Winter Day

B. Greenwood

GGRC29F (see courses not offered)

GGRC30S Bioclimatology

An examination of the environmental aspects of the surface energy exchanges that are important in some advanced branches of physical geography and ecology. Instrumental measurements of radiative and mass fluxes (i.e. water vapour) are linked to the behaviour of vegetative cover, and the resultant physiological responses on the ecosystem are quantitatively evaluated. Leaf temperature, soil moisture status, leaf area, etc. are linked to environmental parameters and their role in the local surface energy balance is shown.

Some major topics are: solar and long wave radiation balance over different surfaces; penetration of solar radiation in plant communities; effect of soil moisture on stomatal behaviour and productivity of ecosystems; models of water and carbon flow through ecosystems. Lectures 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.

Exclusion: (GGRC27)

Prerequisite: One of GGRB05, GGRB06, GGRB27/GGRB28, ECOB47, POLB88, SOCB05

Session: Winter Day

J. Miron

GGRC34F (see courses not offered)

GGRC35H Hillslope Geomorphology

The course will involve review of development of major concepts of hillslope evolution, detailed theoretical and practical study and measurement of hillslope processes, and application of the principles of hillslope geomorphology to problems of land-use management, such as soil erosion and lake bluff collapse. Limited enrolment 15.

Prerequisite: GGRB19. GGRB03 is strongly recommended.

Corequisite: GGRC28

Session: Winter Day

R.B. Bryan

Courses Not Offered in 1983-84**GGRB07Y Geomorphology: The Pleistocene Epoch**

Corequisite: GGRB19; GGRB31 is strongly recommended.

GGRC05F Theory and Method in Modern Quantitative Geomorphology
Prerequisite: GGRB07 or GGRB15, GGRB31**GGRC13S A Theoretical Approach to Political Geography**

Prerequisite: Any two of GGRB01, GGRB05, GGRB13, GGRB17, GGRB27/GGRB28, POLB70, POLB71.

GGRC24S Advanced Quantitative Methods
Prerequisite: GGRB31**GGRC28Y The Hydrology of Surface and Subsurface Waters**

Exclusion: (GGRB18)

Prerequisite: GGRB03 or GGRB19 or GGRB24; GGRB31S is strongly recommended.

GGRC29S Problems in Modern Agricultural Land Use

Prerequisite: One of GGRB01, GGRB13, GGRB17, GGRB28.

GGRC32S Research Seminar in Soil Management

Prerequisite: GGRB29 (or GGRC15)

GGRC33Y Africa: Perspectives in Geography and Development

Exclusion: (GGRB26)

Prerequisite: One of GGRB01, GGRB05, GGRB06, GGRB17; or one B-level course in development studies in economics, political science or sociology.

GGRC34F Landscape Interpretation

Exclusion: (GGRC17)
Prerequisite: One of GGRB05, GGRB13 or GGRB17; students with other Geography courses or courses from other disciplines with permission of instructor.

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 at the College should register in the Terrain and Environmental Earth Sciences (TEES) Programme. Further details on the Geology programme at the University of Toronto can be obtained from the Discipline Representative.

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 sixteen 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 the end of each of the 2nd and 3rd years.

First year:

GLGA01Y	Introductory Geology
GGRA05Y	Introductory Physical Geography
MATA26Y	Calculus
or	
MATA55Y	Calculus with Analysis
CHMA02Y	General Chemistry
PHYA03Y	Physics for the Physical and Life Sciences
(PHYA02Y)	

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:

GLG318Y	Introductory Petrology I
GLG319S	Introductory Petrology II
GLG331F	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

Fourth year:

GLGC01Y	Fundamentals of Hydrogeology
GLG400H	Environmental Geochemical Analysis
GLGC02S	Applied Glacial Geology
GGRC25S	Sedimentary Models
or	
GLG429S	Sedimentology of Clastic Rocks

Options: Students are strongly encouraged to consider courses in the wide range of other disciplines available at the College.

GLGA01Y Planet Earth: an Introduction to Geology

Fundamental concepts of physical and 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.

Prerequisite: None, but one Grade 13 course in Mathematics and Grade 13 Chemistry or Biology or Physics are strongly recommended.
Session: Winter Day
J.A. Westgate

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 ~~Day~~ *Evening*
W. Tovell

GLGB01Y Introductory Mineralogy and Petrology

Crystallography, physical properties, chemical properties, origin and occurrence of minerals, and descriptive mineralogy of approximately eighty common or useful minerals. Optical mineralogy and identification of the principal rock-forming minerals in thin section by use of the polarizing microscope; introduction to petrography.
Prerequisite: GLGA01, CHMA02
Session: Winter Day (Enrolment Limit of 20 (or 30) persons)
D. Gorman, J. Gittins

GLGB02S Principles of Stratigraphy and Sedimentology

Physical and chemical processes of sedimentation, properties and classification of sedimentary rocks, sedimentary environments and facies, diagenesis, stratigraphic nomenclature and classification.
Prerequisite: GLGA01
Corequisite: GLGB01
Session: Winter Day
N. Eyles

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, CHMA02Y, PHYA03Y (PHYA02Y) MATB42S or MATB55S
Session: Winter Day
K. Howard

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.
Prerequisite: GLGB02S, or GGRB07Y, or GLG326F
Session: Winter Day
N. Eyles

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 completed specialist courses in the area of intended study.
Session: Winter Day
Staff

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; not offered in 1983-84
Session: Winter Day
J. Westgate

German

Discipline Representative: H. Wittmann
Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria and part of Switzerland. Language and literature courses may be combined in various ways by students who have completed the prerequisite courses. Also available are Major Programmes in German Language or German Language and Literature, and a Specialist Programme in German Area Studies. All Programmes include a sequence of language courses in order to maintain continuity in the development of practical skills.

Specialist Programme in German Area Studies

Supervisor: H. Ohlendorf (284-3197)
The German-speaking areas in Europe have throughout their history exerted a major formative influence on Western civilization, be it in the fields of politics and economics or through their contributions to literature, the arts, and philosophy. Awareness of this significant fact is clearly reflected in a large number of courses in the Social Sciences and the Humanities at Scarborough College.

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

Required for every student are the German language courses GERB19Y, GERB20Y, GERC10Y, and two full-course equivalents in German Literature. Four full-course equivalents are to be chosen from one of the core groups A, B, or C. The remaining three full-course equivalents should be selected from groups A - E, excluding your core choice.

- A History
- HISA01Y The European World
 - HISB17Y Germany in the 19th and 20th Centuries
 - HISC17Y European Society and Culture Between the World Wars
- plus one course from among:
- HISC19S Weimar Culture
 - HISB13Y Europe in the Reformation Era 1500-1650
 - HISB15Y European Social History 1789-1918
 - HISB18Y Europe under the Enlightened Despots
- B The Arts
- MUSA01Y Introduction to Music
 - MUSB02F Music of the Classic Period
 - MUSB06F Music of the Romantic Period

plus two full-course equivalents from among the following:

- FARA12F Renaissance and Baroque Art
- FARB10F Carolingian and Romanesque Art and Architecture
- FARB11F/S Gothic Architecture
- FARB16Y The Arts in Northern Europe ca. 1400-1500
- FARB45F/S Rembrandt
- FARB48F Art from 1900-1950
- FARC01F/S Readings in Art History: Marxism and the Arts
- FARC16F/S Expressionist Trends in Western Art From Van Gogh to Jackson Pollock
- MUSB01S Music of the Twentieth Century
- MUSB05S Music of the Baroque Era
- MUSB07F The Symphony
- MUSB13F/S Bach
- MUSB18S Beethoven

- C Philosophy
- PHLA01Y Fundamental Questions of Philosophy
 - PHLB12F/S Marx and Marxism
 - PHLB30F/S Existentialism
 - PHLB48F Philosophy in the Later Modern Age I
 - PHLB49S Philosophy in the Later Modern Age II

plus one full-course equivalent from among the following:

- PHLB03F/S Philosophy and Art
- PHLB04F/S Philosophy in Literature
- PHLB16F/S Philosophy of History
- PHLB60F/S Existence and Reality
- PHLB70F/S Philosophy of Science
- PHLB80F/S Philosophy of Language
- PHLB46F Philosophy in the Early Modern Age I
- PHLB47S Philosophy in the Early Modern Age II

- D Politics and Economics
- ECOB61S International Economics: Finance
 - ECOB62F International Economics: Trade Theory
 - ECOB68F/S Comparative Economic Systems
 - ECOB82Y European Economic History
 - ECOC07F The Economics of Karl Marx
 - POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries
 - POLB85Y Comparative Politics of Industrial Societies

- POLC70Y Twentieth Century Political Thought
- POLC86F/S Intergovernmental Relations in the European Economic Community
- E Drama and Humanities
- DRAB02Y The Directors' Theatre
- DRAB04Y The History of the Theatre II
- DRAC11Y Individual Studies in German Theatre and Drama
- HUMB29S Religion and Western Culture
- HUMB43F/S The Emergence of Modern Prose
- HUMB44F/S Disaster and the Literary Imagination
- JHGB52F The Holocaust in German Literature
- HUMC19F Contemporary Fiction and its Background

Students interested in German Area Studies should contact the Supervisor as soon as possible to ensure that a satisfactory and cohesive sequence of courses is selected.

Major Programme in German Language

Supervisor: H. Wittmann (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
- LINA01Y General Linguistics

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

Major Programme in German Language and Literature

Supervisor: H. Wittmann (284-3197)

The Major in German Language and Literature consists of seven full-course equivalents including GERB19Y, GERB20Y and GERC10Y. At least four full-course equivalents must be taken in German Literature. GERA09H and GERA10Y do not count towards the requirement.

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

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

H. Wittmann

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

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

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

H. Wittmann

GERB50S Methods of Interpreting Literature

An introduction to the techniques of literary analysis.

Poems and short pieces of prose will be analysed in close reading. Prosody and metrics will be dealt with in some detail; special attention will also be given to the relationship between form and content. In the final section patterns of rhetoric, syntax, and style will be investigated in the analysis of prose texts. The course is intended to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.

All sessions are informal tutorials: they have free-flowing discussions with a high degree of student involvement. Each student is asked to prepare a number of short presentations.

Prerequisite: GERB19 and B20

Session: Winter Day

H. Wittmann

GERB63F Nineteenth Century Drama

The development of drama from Grabbe and Büchner to Hauptmann and Wedekind.

The core of this course is formed by the best known plays of two major trends of nineteenth century drama: the conservative and the revolutionary. Emphasis will be placed on the reading, analysis and discussion of the plays in the context of their time and the literary traditions in which they stand or which they themselves begin. The plays will also be looked at as practical examples of the theories of the theatre they are intended to represent.

Prerequisite: GERB19 and GERB20

Session: Winter Day

H. Wittmann

GERB70S Twentieth Century Drama

A study of plays from Expressionism to the present.

Modern German theatre from Brecht to Handke is investigated in this course. Special attention is paid to the definition of phenomena such as expressionism, epic theatre, documentary theatre, theatre of the absurd, etc., as they apply to the authors selected. The course is intended to show what gave rise to the many experiments in modern German theatre, and what relationships exist to the social and ideological realities which these plays confront.

Three hours of lecture per week.

Prerequisite: GERB19 and GERB20

Session: Winter Day

H. Wittmann

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 is going to 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.

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

GERC30, 33, 43F

C36, 40, 46S

C48Y Supervised Reading

The course is designed to give senior students an opportunity to follow up on ideas generated during the more formal courses of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student.

Prerequisite: (GERB30), GERB19 and GERB20

Session: Winter Day

Staff

Courses Not Offered in 1983-84**GERB24S**

The Last Hundred Years

GERB33S

Practicum in the History and Structure of the German Language

Prerequisite: Grade 13 German or GERA09 and GERA10

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

GERB60F

Nineteenth Century Prose

Prerequisite: GERB19 and GERB20

GERB66F

Twentieth Century Prose

Prerequisite: GERB19 and GERB20

GERB70S

Twentieth Century Drama

Prerequisite: GERB19 and GERB20

GERB73S

Modern German Poetry

Prerequisite: GERB19 and GERB20

GERB76F

Features of Post-War German Literature

Prerequisite: GERB19 and B20

GERC13Y

Classicism

GERC20Y

Literature of Sturm und Drang and Romanticism

Prerequisite: GERB19 and GERB20

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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

GRHB03Y Roman History from the Gracchi to Nero

GRHB25Y Studies in Greek History I

For further information see under Classical Studies.

History

Discipline Representative: I.R. Robertson

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

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HISA01Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in European history. A series of survey courses (HISB02-09) provides a comprehensive foundation of knowledge in their particular areas, and also serves as preparation for more detailed and advanced studies. In upper-level courses students investigate more specific areas, periods, or problems. C-series courses are conducted as seminars. In them students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are sequences of courses at all levels in the following areas: Medieval European, Modern European, British, American, Canadian, Russian, and Ancient Greek and Roman.

Specialist Programme in History

Supervisor: 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*	Roman Britain
HISB06Y	Europe in the Middle Ages
HISB13Y*	Europe in the Reformation Era, 1500-1650
HISB18Y*	Europe under the Enlightened Despots
HISB23Y*	Tudor and Stuart England
HISB61Y*	The Beginnings of France: Constantine to Charlemagne
(HISC11Y*)	Western Europe in the Seventeenth Century
HISC12Y*	The Renaissance in Europe
HISC14Y*	The European Mentality in the Early Modern Period
HISC32Y*	The American Colonies and the British Empire
HISC62Y*	The Crusades

LIST B

Half-year courses exclusively within a period before 1815

GRHB24F/S	Ancient Historiography
HISB14F/S*	Popular Culture in Early Modern Europe
HISC34F/S*	Revolutionary America 1760-1790
HISC41F/S*	Old Huronia

LIST C

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

HISA01Y	The European World
HISB07Y	Russia from the Thirteenth Century to the Present
HISB46Y*	Atlantic Canada

* Students should check these courses for prerequisites.

Major Programme in History

Supervisor: 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
(HISC11Y*)	Western Europe in the Seventeenth Century
HISC12Y*	The Renaissance in Europe
HISC14Y*	The European Mentality in the Early Modern Period
HISC32Y*	The American Colonies and the British Empire
HISC62Y*	The Crusades

LIST B

Half-year courses exclusively within a period before 1815

GRHB24F/S	Ancient Historiography
HISB14F/S	Popular Culture in Early Modern Europe
HISC34F/S*	Revolutionary America 1760-1790
HISC41F/S*	Old Huronia

LIST C

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

HISA01Y	The European World
HISB07Y	Russia from the Thirteenth Century to the Present
HISB46Y*	Atlantic Canada

* Students should check these courses for prerequisites.

HISA01Y The European World: An Introduction to History

A survey of European history from the Middle Ages to the present.

This course examines the most prominent changes in social and economic organization, in thought and in politics, as Europe developed from a feudal and agrarian to a modern and industrial order. The teaching method is based on lectures and tutorials. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential. Session: Winter Day
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. Two lectures per week.

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 Enlight-

enment 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
J.S. Moir, I.R. Robertson

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 Coun-*

try 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. Gervers

HISB07Y Russia from the Thirteenth Century to the Present

The Russian people, state and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present.

Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history. Lectures and tutorials.

Session: Winter Day
E.W. Dowler

HISB10S 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 Evening
L.J. Abrey

HISB13Y Europe in the Reformation Era 1450-1650

An examination of major themes in sixteenth century Europe, especially social and cultural developments.

There will be strong emphasis on the religious issues and institutions which were so important in that period, and on the interaction of these with the society and culture. Lectures and discussions.

Prerequisite: HISA01

Session: Winter Day
L.J. Abrey

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

HISB21F Frontier Communities in the British Empire-Commonwealth: The South African Model

A comparative study of the influences of frontiers on the development of new nations, with main emphasis on the history of South Africa.

Such major issues as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power are considered.

Two lectures a week.

Prerequisite: HISB02 or permission of instructor

Session: Winter Day
J.P.B. Kenyon

HISB22S British Imperialism in India

The impact of imperialism on India.

Topics will include the motive behind British imperialism; the problems of administration; the transfer of power; neo-colonialism. Two lectures a week.

Prerequisite: HISB02 or Permission of instructor

Session: Winter Day
J.P.B. Kenyon

HISB23Y Tudor and Stuart England

England from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688.

The course gives an overview of political, economic, social, and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers; Parliament and the rule of law; the great religious crisis and its spillover into civil war; the cultural heritage. Two lecture hours and one tutorial per week.

Prerequisite: Any B-level course

Session: Winter Day
L.J. Abrey

HISB31Y The Southern United States and Slavery

The social, political and economic structures of the old South from the colonial period to the Confederacy.

Topics will include the development of southern culture, the relationship between ideas and institutions, slavery as a social and economic system, race relations, and the growth of Southern separatism. One two-hour lecture and one tutorial per week in both of which there will be opportunity for class discussion led by the instructor.

Prerequisite: HISB03

Session: Winter Day
A.N. Sheps

HISB35Y The United States since 1870: The Response to Industrialism

Industrial organization, social mobility, ethnicity, relations between government, labour and capital, social welfare and the implications of industrial development for foreign policy are among the topics discussed.

Prerequisite: HISB03

Session: Winter Day
W.M. Dick

HISB42Y French Canada: Origins to the Present

A thematic study with particular emphasis on Quebec in the nineteenth and twentieth centuries.

The course examines what unites and divides French Canadians, the impact of English dominance, nationalism, industrialization, urbanization, demographic problems, the role of the Catholic church, and relations between Francophones and Anglophones in Canada. Although Quebec receives pride of place we shall also look at communities in the Maritimes, Ontario, the West, New England, and the American South.

Lectures and discussions.

Prerequisite: HISB04

Session: Winter Day
L.J. Abrey

HISB43Y The Evolution of Ontario, 1850-1950

An examination of the growth of Ontario from a rural, agricultural society to an urbanized, industrial province, and of the contribution of demographic, political, economic and social forces to that growth.

Topics will include changes in transportation and communication, the establishment of indus-

HISB35Y Change in title and course description

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, industrialism 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: HISB03Y

Session: Winter Day Time: W2-4, T0001 M2

tries and trade unions, the development of commercial, educational and public service institutions, the impact of immigration, provincial political parties and movements, and Ontario's place in the Canadian Confederation.

There will be two lectures and one tutorial per week.

Prerequisite: HISB04 (HISB09)

Session: Winter Evening

J.S. Moir

HISB46Y Atlantic Canada

An examination of the Maritime provinces and Newfoundland from the first European contacts to Confederation in each province.

Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economies and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fishermen's movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include two research papers.

Prerequisite: HISB04

Session: Winter Day, Summer Evening

I.R. Robertson, M.B. Taylor

HISB61Y The Beginnings of France: Constantine to Charlemagne

A brief survey of the later Roman Empire in the west, followed by a study of the period from Constantine to Charlemagne.

Major topics include: background (Roman Empire and Christian church); the Age of Constantine; A.D.; life and letters in late Roman Gaul (300-500 A.D.); the kingdom of the Franks (500-600 A.D.); the world of Charlemagne. Special emphasis will be placed on social, economic and religious aspects of the period. Students will be expected to acquire a general familiarity with the literature on the subject, to choose one topic area each term and present a paper on it, and to develop a personal view of the subject. Two hours of lecture and one of tutorial per week.

Prerequisite: Any B-level course in History or Greek and Roman history

Session: Winter Day

J.H. Corbett

HISC01F

HISC02S

HISC03Y Independent Studies

A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students meet regularly with the supervisor to discuss progress in their investigations and complete a 7,500-10,000 word paper for a term course and a 15,000-20,000 word paper for a year course.

Prerequisite: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC01 and HISC03 and by 1 December for HISC02. See History Supervisor for detailed application procedures.

Session: Winter Day

The History Faculty

HISC15Y Social Conflict and Accommodation in Modernizing Societies

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 Day

W. Dick

HISC19S Weimar Culture

An examination of the social and political foundations of modernism, using the cultural ferment of Germany between 1918 and 1933 as model.

Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation. Seminar. Limited enrolment: 15.

Prerequisite: HISA01 and one B-level course in History

Session: Winter Day

M. Eksteins

HISC21Y Urbanization and Social Change in Nineteenth Century England

A study of the new social environment created by the growth of cities in an industrial community.

Seminar. In the first term students will discuss major issues based on prescribed readings; they will also write a book report. In the second term students will present a report on their research. Limited enrolment: 20.

Prerequisite: HISB02

Session: Winter Day, Summer Evening

J.P.B. Kenyon

HISC32Y The American Colonies and the British Empire

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

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

HISC41F Old Huronia

Political, social, religious and economic life of the Huron Indians and the interaction of Huron and European cultures.

The course will be taught by weekly seminar.

Limited enrolment: 15.

Prerequisite: HISB04

Corequisite: Field trip to be arranged

Session: Winter Evening

J.S. Moir

JHPC44Y Canadian Social Issues: Historical and Philosophical Perspectives

An advanced level seminar that will examine social issues in Canadian society with an emphasis on the historical development of legal and ethical thinking. Limited enrolment: 15.

In 1983-84 we will examine: conscription and pacifism; the status of native Canadians; women in Canadian society; race relations; crime and punishment; religious freedoms. We will examine the historical development of legal and ethical thinking on these issues including an examination of the various positions taken by interest groups and the role they have played in influencing opinion and law in Canada.

Prerequisites: HISB04Y or PHLB01F/S or PHLB05F/S

Session: Winter Day

J.S. Moir, R.P. Thompson

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 Evening

M. Gervers

HISC20H Anglo-Saxon England

An examination, chronological and topical of aspects of life in Anglo-Saxon England.

Topics will include law and kinship, political organization, the economic system, the conversion to Christianity, religious organization, the Viking invasions, the Danish imperium, the golden age of Edward the Confessor, and the effects of the Norman Conquest. Seminar.

Prerequisite: One B-level course in History or English

Session: Winter Evening **Time:** T7-10E

Instructor: J.S. Moir

The History of Ideas

Courses Not Offered in 1983-84

HISB105

- HISB14F** Popular Culture in Early Modern Europe
Exclusion: HISC14
Prerequisite: HISA01
- HISB16Y** Modern France 1750 to the Present
Prerequisite: HISA01
- HISB18Y** Europe Under the Enlightened Despots, 1700-1789
Prerequisite: HISA01
- HISB44F** Canadian Religious Traditions
Prerequisite: HISB04
- HISB47Y** The Canadian Left, 1867 to the Present
Prerequisite: HISB04
- 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.
- HISC17Y** European Society and Culture in the Twentieth Century
Prerequisite: HISA01 and one B-level course in History.
- HISC20H** Anglo-Saxon England
Prerequisite: One B-level course in History of English
- HISC34F/S** Revolutionary America, 1760-1790
Prerequisite: HISB02 or HISB03 or HISB04
- HISC43S** Selected Topics in Canadian Religious History
Prerequisite: HISB44
- HISC45Y** History of Canadian Social, Political and Historical Thought
Prerequisite: HISB04
- HISC78Y** The Russian Intelligentsia
Prerequisite: HISB07 or RUSA01

JHPC44Y

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 | |
| ECO01Y | 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 |

*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 | |
| ECO01Y | 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 | 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 1/2 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 |

Humanities

- 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 1/2 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 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.

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 re-structure subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly attractive point of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a loose historical period, or a movement of broad cultural relevance.

Humanities courses fall into the following broad categories, for all of which HUMA01Y serves as a useful, though not always a required, prologue:

Civilization and Culture

- HUMA01Y Prologue
HUMB13Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities
HUMB14Y Topics in Latin American Culture and Literature
HUMB15Y The Civilization of Spain
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
see also:
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
HUMB34F/S Hercules: Man of Action
HUMB35F "The Ulysses Factor"
HUMB36Y Orpheus: The Quest for Beauty
HUMB37F/S Atlantis
HUMB38F/S Utopia: From More to Huxley
HUMB39F/S Fantasy in Narnia and Middle Earth
HUMC25Y The University
See also:
ANTB23Y Comparative Mythology

Interliterary Studies

- HUMB40Y Russian and English Nineteenth-Century Fiction
HUMB43F/S The Emergence of Modern Prose
HUMB44F/S Disaster and Literary Imagination
HUMB45S The Spanish Civil War: Fact to Fiction
HUMC01S Lyric Poetry of the Middle Ages
HUMC14Y Romance Philology
HUMC19F Contemporary Fiction and its Backgrounds
JHEC13Y Advanced Seminar in Literary Theory and Criticism

Literature in Translation

- CLAB01Y Greek and Roman Epic
CLAB02Y Greek and Roman Tragedy
HUMB50S Machiavelli and Aspects of the Italian Renaissance
HUMB54F The Crisis of Contemporary Society in Modern Italian Drama
HUMB55Y The Twentieth Century Latin American Novel and The European Tradition

- JHGB50Y The Development of German Drama
JHGB51Y Masterpieces of the German Novel from the Eighteenth Century to the Present
JHGB52F/S The Holocaust in German Literature
JSOB24F Golden Age Drama
RUSB11Y The Nineteenth Century Russian Novel, 1830-1880
RUSB17Y Dostoevsky's Major Fiction
RUSB21Y Twentieth Century Russian Fiction, 1900-1940
RUSB23Y Soviet Russian Underground Literature from the 1920's to the Present

Women's Studies

- JHSA01Y Introduction to Women's Studies
HUMB61S Women in Ancient Greece
HUMB64Y Literary Considerations and Feminism

Film Studies

- HUMB70Y Introduction to Cinema
JHIB71F Italian Cinema

Specialist Programme in the Humanities

Supervisor: 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

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, NSCA02Y, POLB70Y, POLB71Y, SOCB03Y. Other courses offered by the Division of Science and the Division of Social Sciences may be chosen to fulfil this requirement upon approval by the Supervisor.

- 7 Three further full-course equivalents in Humanities subjects, 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*; Cervantes, *Don Quixote*; Montaigne, *Essays*; Calderon, *Life is a Dream*; Vasari, *Lives of the Artists*; Galileo, *Discoveries and Opinions*; Goethe, *Faust*; Marx, *Communist Manifesto*; 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*, 11, i.

Session: Winter Evening

Co-ordinators: W.C. Graham, P.W. Gooch

JHSA01Y Introduction to Women's Studies

Women and their roles and relationships in various societies. Taught by members of the disciplines of Anthropology, Classics, English, French, History, 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

HUMA11Y Greek and Roman Mythology

The emergence and treatment of myths and legends in the Greco-Roman World.

The course will examine the more important myths and legends and their representation in classical literature, drama and art, and will partly be concerned with ancient and modern theories of myth. This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in classics.

Session: Winter Day

J. Warden

HUMB14Y Topics in Latin American Culture and Literature

A study of the political, social, cultural and literary evolution of Latin America through selected topics such as: Pre-Columbian America, myths and religious practices; the Spanish conquest, construction or destruction?; the Mexican and Cuban revolutions, a study in contrasts; contemporary Latin American fiction, themes and concerns; and, the present day political scene.

No knowledge of the Spanish language is required. However, students majoring in Spanish, please see programme requirements.

One two-hour lecture/discussion session per week. Tutorials to be arranged.

Exclusion: (SPAB38)

Session: Winter Day

P. León

HUMB16F The Image of the Self in Liberal Society

Critical contemporary reactions to social problems.

Contemporary society has been labelled post-industrial, newly illiterate, value-neutral, commodity-conscious, narcissistic. In examining the concerns of social critics such as Habermas, Horkheimer and Adorno, Chomsky, Toffler, Lasch, Sennett, Ellul and Tourane, we shall confront a broad range of issues that include the trivialization of personal relations, media culture, bureaucracy, teamwork and the corporate identity, commodity education, the crisis of socialism and capitalism, new modes of social conflict and finally, the relevance of futurology.

Session: Winter Day

W. Graham, S. Mittler

Cancelled

HUMB17Y The European Experience: Man and Society in the Twentieth-Century French and Italian Novel

The modern evolution of two European societies as documented in their narrative fiction.

In this interdisciplinary analysis of the cultural fabric of France and Italy, non-literary material will be used to complement selected readings that illustrate social, political and economic developments, Europe-wide philosophical reactions, and consequent innovations in narrative form. Works will be read in translation, although students with reading knowledge of French and/or Italian will be encouraged to read in the original. Texts include Svevo, *The Confessions of Zeno*, Céline, *Journey to the End of Night*, Camus, *The Fall*, Lampedusa, *The Leopard*, Moravia, *The Two of Us*, LeFebvre, *Everyday Life in the Modern World*, and other works.

Exclusion: (HUMB03)

Session: Winter Day

S. Mittler

HUMB19F Beyond Consciousness

An examination of the limits of consciousness from the point of view of various disciplines in the Humanities. The specific content will vary but will focus on one of the following: communication, religion and philosophy, myth-making and poetry.

In 1981-82, suggestion and the unconscious will be studied insofar as they relate to the educational process and emphasis will be placed on yoga, music therapy, East-European and Western work in memory training and communication theory.

Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking HUMB19 might wish to consult the following: Brown, *New Mind*, New Body 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

HUMB23S The Age of Augustus

Rome in transition from Republic to Principate, with reading of the *Aeneid* of Virgil as well as selections from Horace and Ovid. Representative pieces of Roman art and architecture will also be studied.

The course aims to present an integrated picture of an exciting and crucial period in Roman history. The response of Augustan Rome to questions of power, social organization, national idealism, and the quality of life will be considered as they are reflected in literature and art, with particular emphasis on poetry and architecture. Special attention will be given to the Augustan Forum, the *Ara Pacis*, and the "Prima Porta" statue on the one hand, and the poetry of Virgil, Horace, and Propertius on the other. Slides will be shown and studied frequently, and discussion encouraged.

Session: Winter Day
J.R. McDonald

HUMB25F The Age of Homer

The world of Homer's heroes as described in the *Iliad* and revealed through archaeology. The course will cover the development of early Greek epic poetry and will offer a survey of Mycenaean remains. Required reading will include Homer's *Iliad*.

The objectives will be to investigate the Homeric Poems as sources of history for a period of Greek civilization for which no substantial ancient documents exist (ca. 1500-1000 B.C.); to appreciate the poetic qualities of the poems and to understand something of the circumstances under which they were composed; to impart a knowledge of the cultures described by Homer and known through excavation (e.g. Mycenae, Pylos, Ithaca, Troy, etc.).

Two lectures a week, illustrated by slides where appropriate. Readings will include the *Iliad* and the *Odyssey* in translation.

Session: Winter Day
M.E. Irwin

HUMB27S Science Fiction

Reading and discussion of representative works in the genre of science fiction.

Science fiction is where science and the Humanities most interact. Its authors have been interested, no less than scientists and philosophers, in the central concepts and issues of western thought, as will be seen in reading the works of such authors as Mary Shelley, Jules Verne, H.G. Wells, Olaf Stapledon, C.S. Lewis, John Wyndham and Aldous Huxley. The precise reading list will depend in part on the availability of titles, most of which are out of print at any given time.

Lectures and discussion.
Session: Winter Day
R. Binnick

HUMB28Y Major Religious Traditions, East and West

An introductory study of the ideas, attitudes, practices and contemporary situation of the Judaic, Christian, Muslim, Hindu, Buddhist, Confucian, Taoist, and Shinto faiths.

The first part of the course deals with the faiths of India, China, and Japan. The faiths of the Near East - Judaism, Christianity, Islam are studied in the second part. While the course is of general interest, it will be particularly useful for students who are concerned with the history, philosophy, sociology and psychology of religion.

Session: Winter Day
J. McAuliffe

HUMB35F 'The Ulysses Factor'

The literature of exploration: a study of a recurring motif - the *Odyssey* - in Greek, Latin, Medieval, and Modern literature, based on the Homeric archetype, Odysseus.

The course traces the portrayal of an archetypal hero and the legends around him from their genesis in Greek myth and history to the present day. It explores some reasons for the hold of the Ulyssean personality on the creative imagination, and considers the cultural and literary influences on it. Beginning with a close reading of Homer's *Odyssey*, we shall follow the figure of Odysseus as subsequently interpreted by Virgil (*Aeneid* I-VI), Dante (*Inferno* 26), Shakespeare (*Troilus and Cressida*), Joyce (selection from *Ulysses*), and Kazantzakis (selections from *The Odyssey: A Modern Sequel*). Some attention will be given to the Odysseus figure in other literary and non-literary media, and to J.R.L. Anderson's theory of the 'Ulysses Factor'.

Exclusion: (HUMB07)
Session: Winter Day
J.R. McDonald

HUMB39F Fantasy in Narnia and Middle Earth

Reading and discussion of masterworks in the genre of modern literary fantasy.

This course examines the novels of the "Inklings" (J.R.R. Tolkien, C.S. Lewis, and Charles Williams), three of the most important writers of modern fantasy literature. The precise reading list will depend on the availability of titles, but will include at least some fantasies by such forebearers of Tolkien and company as William Morris, Lord Dunsany, George MacDonald, and H. Rider Haggard. Emphasis will be on the continuing tradition in fantasy literature both

as a reflection of the modern world and as an escape from it. Lectures and discussion.

Exclusion: (HUMB05)
Session: Winter Day
R.J. Binnick

HUMB45S The Spanish Civil War: Fact to Fiction

An exploration of the impact of the Spanish Civil War, 1936-39, on the literary imagination within and outside Spain.

This is not a course on the history of the Spanish Civil War but one in which a brief examination of its origins, progress, and aftermath will lead to analysis and discussion of the varying modes of artistic response (narrative, dramatic, lyrical, documentary) to the military, political, and social realities of the conflict. Authors to be considered will probably include: Gironella, Hemingway, Malraux, Orwell, Sender, Spender et al. The texts will be read and the course conducted in English in a lecture-tutorial format.

Session: Winter Day
R. Skyrme

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
Hall

HUMB61S Women in Ancient Greece

A study of women in Greece from the time of Homer to the fourth century B.C.

The course will consider the role of women and the attitude of society toward them in this period, and will study what we know of women in ancient Greek society, in order to discover their position in society, their rights, their functions, and attitudes towards them. We shall consider

women in Homeric epic, tragedy and comedy. Women in Athens will be contrasted with women in Sparta. Non-citizen women will be compared to citizen women. Reading in translation will include selections from Homer, Hesiod, the lyric poets, the historians, philosophers and dramatists. One two-hour meeting each week; lecture followed by discussion.

Exclusion: (HUMB41)
Session: Winter Day
M.E. Irwin

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. Schonberg

JHIB71F Italian Cinema

A survey of the development of Italian cinema from World War II to the present.

Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be shown during the course, which will meet four hours per week. There will be an introduction to the film followed by film viewing and discussion. Specialists in Italian will be expected to do their written work in Italian. This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian.

NOTE: There is a screening fee of \$10.00 for this course.

Exclusion: (HUMB71), (JHIB90)
Session: Winter Evening

HUMB80Y Creative Writing: An Introduction

An introduction to the writing of poetry and short fiction.

This course will provide students with the experience of writing, discussing and revising their work in a workshop format. It will also provide special work on techniques and form, and consideration of a few major contemporary writers to facilitate technical discussions. Limited enrolment: 16.

Prerequisite: Admission by portfolio. This requirement may be replaced by interview at the discretion of the instructor.

Session: Summer Evening
R.M. Brown

HUMB73S Religious Themes in the Films of Werner Herzog

An examination of some of the major religious themes in the films of Werner Herzog.

Topics include questions of innocence and guilt, "intensity" versus dissipation, humility and pride and standards of normality. Of all the major new German film makers, Herzog is the most universal in his choice of subject matter. He is not interested in portraying the details of German politics and society, but rather those dramas that reveal something of life as everyone experiences it. Concurrent with the viewing of eight films, students will read religious texts dealing with Herzog's major themes.

Session: Winter Evening Time: W6-10E

There is a screening fee of \$10.00

Instructor: M. Barnes

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

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 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

HUMC25Y The University

An examination of the concept of higher education and the nature of the university from its medieval origins to the present, including a review of the historical development of this institution in Europe and North America, as well as discussion of current issues.

Prerequisite: Any two B-level courses

Session: Winter Day
J. Kirkness

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 1981. (For a year of individual study, students must enrol in all five courses. Those who wish to take Individual Studies should consult disciplinary listings.)

Prerequisite: Permission of the Division of Humanities Committee on Individual Study.

Session: Winter Day
Staff

Courses Not Offered in 1983-84

HUMA10Y Introduction to the Study of Religion

HUMB13Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities

Exclusion: (HUMB30)

HUMB15Y The Civilization of Spain

Exclusion: (SPAB08), SPAB09

HUMB18S Modern Italy

Exclusion: ITAB20

HUMB20Y Primitive Christian Literature and Myth

Prerequisite: No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.

HUMB21S The Literature of the Spanish Mystics

Exclusion: (SPAB37)

HUMB22F The Age of Pericles

HUMB24S The Age of Nero

HUMB26Y Women in the Major Western Religions

HUMB29S Religion and Western Culture

HUMB33Y World Visions from the late Middle Ages to the Renaissance

HUMB36Y Orpheus: The Quest for Beauty

Exclusion: (HUMB08)

HUMB37F/S Atlantis

Exclusion: (HUMB09)

HUMB38F Utopia: From More to Huxley

HUMB44F Disaster and the Literary Imagination

Exclusion: (HUMB02)

HUMB50S Machiavelli and Aspects of the Italian Renaissance

Exclusion: ITAB33

HGB50Y The Development of German Drama

Exclusion: (GERB40)

HGB51Y Masterpieces of the German Novel from the Eighteenth Century to the Present

Exclusion: (GERB43)

HGB52F The Holocaust in German 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

HUMB64Y Literary Considerations and Feminism

Prerequisite: Either one course in English or one in Women's Studies

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.

HUMC14Y Romance Philology

Prerequisite: LINA01; two full-course equivalents, one of which must be at the B-level in one of the following languages: French, Italian, Latin or Spanish. It would also be an asset, but it is not a prerequisite, to have some knowledge of Latin and/or a second Romance language.

HUMC19F Comparative Study of Contemporary Fiction

Prerequisite: One B-level course in literature or permission of instructor

HUMC25Y

Italian

Discipline Representative: A. Franceschetti (284-3307)

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 | ITAA01Y | Introductory Italian |
| 2 | ITAA02H | Introductory Italian Language Practice |
| 3 | ITAA03S | Conversation II |
| 4 | ITAB01Y | Intermediate Italian I |

- | | | |
|----|----------------------|--|
| 5 | ITAB03F or ITAB04F/S | Intermediate Conversation I or Advanced Composition |
| 6 | ITAB06S or ITAB05F/S | Intermediate Conversation II or Practical Translation |
| 7 | ITAC01Y | Language Practice |
| 8 | ITAB20F/S | Modern Italy |
| 9 | ITAB22F | Introduction to Modern and Contemporary Italian Literature |
| 10 | LINA01Y | General Linguistics |

Option B (for students with some prior knowledge of Italian or one of its dialects but without Grade 13 Italian):

- | | | |
|----|----------------------|--|
| 1 | ITAA11Y | Elementary Italian |
| 2 | ITAA03S | Conversation II |
| 3 | ITAB11Y | Intermediate Italian II |
| 4 | ITAB03F or ITAB04F/S | Intermediate Conversation I or Advanced Composition |
| 5 | ITAB06S or ITAB05F/S | Intermediate Conversation II or Practical Translation |
| 6 | ITAC01Y | Language Practice |
| 7 | ITAB20F/S | Modern Italy |
| 8 | ITAB22F | Introduction to Modern and Contemporary Italian Literature |
| 9 | ITAB23F/S | Survey of Italian Literature from the Middle Ages to the Renaissance |
| 10 | LINA01Y | General Linguistics |

Option C (for students with Grade 13 Italian):

- | | | |
|----|-----------|---|
| 1 | ITAB10Y | Italian Language Review (proposed new course) |
| 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 | LINA01Y | General Linguistics |

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:

Three full-course equivalents in Italian Language

Three full-course equivalents, including ITAB22F and ITAB23S (or ITAB21Y), and ITAB31Y, in Italian Literature.

One full-course equivalent selected 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

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 prerequisite course A02H. The basic Italian textbook is supplemented by dialogues made up by 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. Three hours per week.

Exclusion: ITAA11

Corequisite: ITAA02. Furthermore, it is strongly recommended that students enrolled in ITAA01 and ITAA02 take ITAA03 concurrently with them in the Spring term.

Session: Winter Day

D. McAuliffe

ITAA02H Introductory Italian Language Practice

Practical application of the language structures introduced in ITAA01.

As with the corequisite A01Y, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The two hours weekly of classtime are devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practise with one another, and as they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest.

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. Three hours per week.

Corequisite: ITAA01 or ITAA11

Session: Winter Day

S. Mittler

ITAA11Y Elementary Italian

An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

The course aims at giving a basic knowledge of speaking, reading and writing Italian. The main objective is to free the student from the phonological, lexical and grammatical interference, from both dialects and English, found in the Italian community. Basic grammar rules will

be studied and modern prose passages will be analyzed from the point of view of grammatical structure, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. Three hours of lectures per week; the 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

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. Three hours per week.

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

ITAB03F Intermediate Conversation I

An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idioms and special constructions focusing on Italian culture and civilization.

This course offers the opportunity to improve oral and aural skills in Italian. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics and by preparing the specialized vocabulary of those topics. At least two oral reports on an agreed-upon subject related to Italian culture and civilization will be required of each student. Three hours per week.

Corequisite: ITAB01 or ITAB10 or ITAB11

Session: Winter Day

ITAB04H Advanced Composition

Study and analysis of modern Italian prose structures, idioms and stylistics.

The purpose of the course is to enable the students to acquire fluency of expression in written Italian, both in free compositions and in summaries of passages of modern Italian writers. Difficulties of grammar, idiom and stylistics will be discussed and explained during the two-hour class meeting every second week. Individual student compositions will be analyzed in detail during tutorial session.

Corequisite: ITAB01 or ITAB10 or ITAB11

Session: Winter Day

A. Franceschetti

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 in addition to 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. Three hours per week.

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

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. During the course of the term 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

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.

Exclusion: (ITAB21)

Prerequisite: ITAB01 or ITAB10 or ITAB11

Session: Winter Day

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 students' 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*, 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.

Exclusion: (ITAB21)

Prerequisite: ITAB01 or ITAB10 or ITAB11

Session: Winter Day

D. McAuliffe

ITAB31Y Dante and Medieval Culture

An introduction to Medieval Italian literature with special reference to Dante.

This course aims to introduce to the student the problems, mentality, social and cultural patterns of man in the Middle Ages with specific reference to literary phenomena such as Provençal lyrics and old French poetry and epics. The origins and development of medieval literature will be examined, leading up to Dante and the masterpiece of the Middle Ages, *The Divine Comedy*. The course will include a brief survey of Dante's minor works and their significance in terms of the life and culture of the times. Three hours of lectures with discussion per week. Class participation and student's comments are strongly encouraged.

Prerequisite: ITAB01 or ITAB10 or ITAB11

Session: Winter Day

A. Franceschetti

ITAB34F Chivalric Poetry of the Renaissance

A brief survey of the origins of epic poetry in the Middle Ages followed by the study of the masterpieces of the Renaissance Epic: Pulci's *Morgante*, Boiardo's *Orlando Innamorato*, and Ariosto's *Orlando Furioso*.

This course aims to give the student an adequate knowledge of the artistic and cultural significance of the masterpieces of Italian Renaissance chivalric literature. Selected passages from the three poems will be read and discussed in class. The lectures will stress Pulci's comical and humorous attitudes towards chivalric institutions and conventions, Boiardo's idealistic vision of man, and Ariosto's participation in both these attitudes as well as his role as "inventor of the modern novel." There will be three hours of lectures with discussion per week.

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

ITAB36S Lyric Poetry of the Renaissance (from Poliziano to Michelangelo)

An introduction to the study of the Italian Renaissance.

This course aims to provide the student with an understanding of the development of Italian lyric poetry from Petrarchism to Bemboism in the second half of the fifteenth and first half of the sixteenth centuries. Cultural background concerning these schools of literature and their dependence on neo-platonism will be provided in a series of lectures. In addition to the better-known participants in the above-mentioned schools, attention will be paid to a group of women writers among whom Vittoria Colonna is foremost. Some anti-Petrarchist and anti-Bemboist poetry and some popular poetry will also be studied. Students will be invited, after a careful reading of the poetry, to participate in class discussion. All texts will be read in Italian; the language to be used for class discussion and for written assignments will be decided upon during the first few class meetings.

Prerequisite: ITAB01 or ITAB10 or ITAB11; a course in Italian literature, such as ITAB22 and ITAB23 is recommended but not required.

Session: Winter Day
D.J. McAuliffe

ITAB44F Manzoni

A study of Manzoni's lyric poetry, tragedies and *Promessi Sposi*.

The integral text of *I Promessi Sposi* will be analysed in its double role as seminal contribution to the history of Italian language and as literary masterpiece. Selections from Manzoni's minor works will be read and discussed in order to provide necessary background material for his narrative masterpiece. This course is recommended to those students interested primarily in language as well as to those concentrating on literature; and no special preparation in literary studies is necessary. Class discussion will be conducted in Italian.

Prerequisite: ITAB01 or ITAB10 or ITAB11
Session: Winter Day
D.J. McAuliffe

JHIB71F Italian Cinema

A survey of the development of Italian cinema from World War II to the present.

Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be shown during the course, which will meet four hours per week. There will be an introduction to the film followed by film viewing and discussion. Specialists in Italian will be expected to do their written work in Italian. This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian. NOTE: There is a screening fee of \$10.00 for this course.

Exclusion: (HUMB71), (JHIB90)
Session: Winter Evening

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. Three hours of class per week. 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
Staff

Courses Not Offered in 1983-84**ITAB05S****Practical Translation**

Prerequisite: ITAB01 or ITAB10 or ITAB11.

ITAB12S**The Twentieth Century Novel**

Prerequisite: ITAB01 or ITAB10 or ITAB11.

ITAB27S**Modern Italian Theatre from Pirandello to the Present Day**

Prerequisite: ITAB01 or ITAB10 or ITAB11

ITAB32S**Petrarch and Boccaccio**

Prerequisite: ITAB01 or ITAB10; or ITAB11; a course in Italian literature, such as ITAB22F and ITAB23S is recommended but not required.

ITAB35F**Italian Sixteenth Century Theatre**

Prerequisite: ITAB01 or ITAB10 or ITAB11; a course in Italian literature, such as ITAB22F and B23S, is recommended but not required.

ITAB40S**Reformatio and Baroque Literature**

Prerequisite: ITAB01 or ITAB10; or ITAB11

ITAB43F/S**Foscolo and Leopardi**

Prerequisite: ITAB01 or ITAB10 or ITAB11

ITAB45F**The Nineteenth Century Italian Novel in Transition**

Prerequisite: ITAB01 or ITAB10 or ITAB11

Joint Courses

For a description of these courses please refer to the disciplines concerned:

Biology and Chemistry

JBCB35Y Introductory Biochemistry
JBCB36H Laboratory in Chemistry

Commerce and Economics

JCEB54S Industrial Relations
JCEB72F Analysis for Decision Making I
JCEB73S Analysis for Decision Making II
JCEC02Y Corporation Finance
JCEC40S Public Policy Towards Business
JCEC70F Advanced Corporate Finance
JCEC75S Investments

Commerce and Sociology

JCSB27Y Organizational Behaviour

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
JHSB04Y The Bloomsbury Group
JHSC01H Senior Project in Women's Studies

Linguistics and Psychology

JLPB24S Developmental Psycholinguistics
JLPB55F Psycholinguistics

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

Language and Literature

Physics and Astronomy
JPAC10Y Relativity and Cosmology

Physics and Mathematics
JPMC42S Advanced Classical Mechanics

Spanish and Drama
JSDB24F Golden Age Drama

Specialist Programme

Supervisor: R. Barta (284-3205)

Students wishing to follow this Specialist Programme should complete the *Major in Language and Literature* in two of the following disciplines:

English,
French,
Classical Studies (Greek or Latin),
German,
Italian,
Russian,
Spanish.

In addition, one full-course equivalent should be chosen from the following, the choice to be approved by the Supervisor:

ENGB95Y English Literary Criticism
FARA10F Ancient Art and Architecture
FARA11S Medieval Art
FARA12F Renaissance and Baroque Art
FARA13S Modern Art 1750 to the Present
HUMA01Y Prologue
HUMA11Y Greek and Roman Mythology
PHLB03F/S Philosophy and Art
PHLB04F/S Philosophy in Literature

Latin

Courses are offered in introductory Latin

(LATA01, LATA10) and Latin literature (LATB01, LATB30, etc.).

LATA01Y Introductory Latin
LATA10F Introduction to Latin Authors
LATB01S Catullus
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: R. Binnick (284-3314)

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINA01, LINB11, and LINB04). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LINB07, JLPB55, JLPB24 and other courses.

Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LINA04, LINB26 and LINB27.

Specialist Programme in Linguistics

Supervisor: R. Binnick (284-3314)

The Specialist Programme in Linguistics may be taken in one of three ways, depending on whether the student wants to focus on general linguistics, psycholinguistics, or sociolinguistics. Each involves a core of four basic full-course equivalents, as follows:

- 1 LINA01Y General Linguistics
- 2 LINB11Y Syntax and Semantics
- 3 Two of:
LINB09F Phonetics
LINB02S Phonology
LINB04S Historical and Comparative Linguistics
- 4 LINC21Y Investigation of a Language
or
LINC22Y Comparative Study of a Language Family or Area

In addition to these, students must choose one of the following three areas of concentration:

I General Linguistics Concentration:

Students must complete nine additional full-course equivalents, to be constituted as follows:

- 5 LINB07Y Sociolinguistics
or two of:
JLPB24S Developmental Psycholinguistics
JLPB55F Psycholinguistics
LINB25F Second Language Learning
LINB27F Animal Communication and the Nature of Language
- 6 Four further full-course equivalents in Linguistics, not to include LINA04F/S

- 7 One full-course equivalent from among the following courses:
- | | |
|-----------|---|
| ANTB30Y | Language and Culture |
| ENGB01Y | Old English Language and Literature |
| FREB25Y* | Introduction to French Linguistics |
| FREB42F* | General History of the French Language |
| FREB43S* | The French Language in Canada |
| FREB48Y* | Theoretical and Practical Phonetics |
| GERB33S* | Practicum in the History and Structure of the German Language |
| PHLB80F/S | Philosophy of Language |
| SPAB04F* | Phonetics |
| SPAB12S* | History of the Spanish Language |

* Students should check these courses for prerequisites.

- 8 Two full-course equivalents in a language which is not the student's native language.
- 9 The student must also, in addition to his native language and the language taken under (8), have some knowledge of a third language; this requirement can be satisfied by either: (a) a demonstration that the student's knowledge is equivalent to that acquired in one full course at the university level (to be decided in consultation with the Supervisor), or (b) the student's taking one further course in such a language at the university level.

II Psycholinguistics Concentration

Students must complete ten additional full-course equivalents, to be constituted as follows:

- 5 Two of:
- | | |
|---------|---|
| JLPB24S | Developmental Psycholinguistics |
| JLPB55F | Psycholinguistics |
| LINB25F | Second Language Learning |
| LINB27F | Animal Communication and the Nature of Language |
- 6 Two further full-course equivalents in Linguistics, not to include LINA04F/S
- 7 PSYA01Y
- 8 Four full-course equivalents from among the following:
- | | |
|----------|---------------------------------|
| PSYB07F | Data Analysis in Psychology |
| PSYB09S | General Experimental Psychology |
| PSYB20F | Developmental Psychology |
| PSYB40F* | Learning |

- | | |
|------------|-------------------------------------|
| (PSYB41F*) | Operant Conditioning |
| PSYB50F | Sensation and Perception |
| PSYB51F* | Perceiving and Knowing |
| PSYB52S* | Human Information Processing |
| PSYB57S* | Human Learning and Memory |
| PSYB60F | Brain Mechanisms and Behaviour: I |
| PSYB65F* | Biological Foundations of Behaviour |

* Students should check these courses for prerequisites or exclusions.

- 9 Either (a) a total of two further full-course equivalents to be selected from Linguistics and/or Psychology, or (b) two full-course equivalents in a language which is not the student's native language. If (b) is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).
- Students are encouraged to complete a course in Calculus or Statistics.

III Sociolinguistics Concentration:

The student must complete nine additional full-course equivalents, to be constituted as follows:

- 5 All of the following:
- | | |
|---------|----------------------------|
| LINB07Y | Sociolinguistics |
| SOCA01Y | Introduction to Sociology |
| SOCB01Y | Methods in Social Research |
- 6 Two of:
- | | |
|---------|--|
| SOCB10Y | Social Class and Social Stratification |
| SOCB13Y | Canadian Society |
| SOCB16Y | Social Change |
- 7 Two further full-course equivalents in Linguistics, not to include LINA04F/S
- 8 Either (a) two further full-course equivalents in Linguistics, or (b) two full-course equivalents in a language which is not the student's native language. If (b) is chosen, the student may satisfy this requirement by demonstrating that he or she has a knowledge equivalent to that acquired in two full-course equivalents at the University level (to be determined in consultation with the Supervisor).

Major Programme in Linguistics

Supervisor: R. Binnick (284-3314)

Students must complete seven full-course equivalents, as follows:

- | | | |
|---|---------|--|
| 1 | LINA01Y | General Linguistics |
| 2 | LINB11Y | Syntax and Semantics |
| 3 | Two of: | |
| | LINB09F | Phonetics |
| | LINB02S | Phonology |
| | LINB04S | Historical and Comparative Linguistics |

Students must also complete *either* four other full-course equivalents in LIN or three other full-course equivalents in LIN plus one C-level full-course equivalent in a language. (Only the first option is permitted when this programme is taken as part of the Modern Languages Specialist Programme.) JLPB55F and JLPB24S can be included as LIN courses. LINA04F/S cannot be counted towards the Major.

LINA01Y General Linguistics

An introduction to various methods of linguistic analysis, as well as to the form and content systems which comprise language.

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, D. James, R. Binnick

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 LINA01Y. LINA01 and LINA04 may not be taken in the same session.

Session: Winter Day

S. Whalen

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

LINB04F Historical and Comparative Linguistics

Language change and language relationships.

Topics such as the following will be included: the ways in which language changes; social motivations for language change; language families; language contact; language universals.

Prerequisite: LINA01

Session: Winter Day

S. Whalen

LINB08F Scripts

Alphabets and other writing systems, their history, development and use. Hieroglyphics, Cuneiform, and other ancient scripts. History of the Latin and related alphabets.

There will be lectures and discussion, some assignments.

Prerequisite: LINA01 or LINA04

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 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

JLPB24S Developmental Psycholinguistics

The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing.

There will be lectures and discussions.

Exclusion: LINB15

Prerequisite: One full-course equivalent in LIN or PSY.

Session: Winter Day

A. Gopnik

LINB27S Animal Communication and the Nature of Language

An examination of how some animals communicate and what this can tell us about how to form a theory of language.

Topics include: non-human communication; the relationship of human language to animal communication; non-linguistic communication by humans.

Lectures, discussion and films.

Prerequisite: One course in LIN, or PSY, or SOC or ANT.

Session: Winter Day

S. Whalen

LINB28S Language and Sex

Linguistic differences between males and females as regards the structure and use of language, and what languages can tell us about how males and females are viewed by their speakers.

Do women speak more correctly than men? Is women's speech more polite? Do men speak more forcefully? Do women talk more than men? Evidence for and against such hypotheses will be discussed. Sex-linked speech differences in other languages will also be examined and also non-verbal communication. In addition, we will look at phenomena which reveal attitudes towards the sexes, such as sex-exclusive derogatory terms and the use of noun classifiers in

various languages. The underlying causes of these phenomena will be discussed. There will be lectures and discussions.

Prerequisite: One full course or equivalent in LIN, SOC, ANT, ENG, or PSY

Session: Winter Day

R. Binnick

LINB29F Disorders of Speech and Language

An investigation of problems in the speech and language of adults and children.

This course examines various types of language difficulties due to brain damage, developmental problems or general cognitive disorders, with a view to better understanding both these disorders and normal language development and use.

Prerequisites: One full course equivalent in either PSY or LIN.

Session: Winter Day

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, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogenesis will be discussed.

Lectures, films and discussion.

Prerequisite: One full-course equivalent in LIN or PSY.

Session: Winter Day

A. Gopnik

LINC01F

LINC02S

LINC03F

LINC04S

LINC05Y Supervised Reading

Interested students should contact Professor R. Binnick, Discipline Representative. The aim of these courses is to allow the advanced student of Linguistics to engage in research; this research is normally at a level which is more advanced than other Linguistic courses which the student has already taken, and in an area which is of the

student's own choosing. Methods of research and of evaluation are as varied as the possible areas of research.

Prerequisite: At least one B-level full-course equivalent in Linguistics; permission of instructor.

Session: Winter Day

Staff

LINC21Y Investigation of a Language

Linguistic theory put to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.

The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year.

Pre- or Corequisite: LINB02, LINB11

Session: Winter Day

D. Woods

Courses Not Offered in 1983-84

LINB07Y

Sociolinguistics

Prerequisite: LINA01Y or SOCA01Y or SOCA02Y; LINA04F/S with permission of instructor.

LINB12S

Semantics

Prerequisite or Corequisite: LINB11Y

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: LINA01Y, LINA04F/S or one course in Psychology or Anthropology

LINC10Y

Studies in Syntax and Semantics

Prerequisite: LINB11Y

LINC12F

Dialectology

Prerequisite: LINB07Y

LINC22Y

Comparative Study of Language

Family or Area

Prerequisite: LINB11Y, or LINB02S and LINB04F

Corequisite: The other of LINB11Y, or LINB02S and LINB04F

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, STAB52, 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, JMCC51S, 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, CSCB68F, CSCB73F, CSCC34F, JMCC51F
 - c MATB25Y, MATB44F, MATB49S, MATB70S, MATC43F, MATC49S, MATC54F, JMCC31F, JMCC32F

In any given year, some C-level courses may not be offered. Students should check with the divisional office.

MATA26Y Calculus

Limits and continuity, derivatives, related rates, extremum problems, graph sketching, Newton's method, indefinite and definite integrals, numerical integration, Taylor approximation and differential equations.

Students must have a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses.

MATA26Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop these ideas by the investigation of specific examples. MATA26Y is a demanding course which will equip the student for most sciences and for further work in mathematics.

Exclusion: (MATA22) MATA27; MATA55

Prerequisite: Grade 13 Calculus

Session: Winter Day, Summer Evening

MATA27Y Techniques of Calculus

Limits and continuity, derivatives, applications to related rates and extremum problems, graph sketching, Rolle's theorem and Mean Value Theorem, indefinite and definite integrals, L'Hôpital's rule, partial differentiation, Lagrange multipliers, first order differential and difference equations, elementary matrix algebra.

Students must have a calculator with memory and the exponential, logarithmic and trigonometric functions and their inverses. MATA27 is intended for those Commerce and Economics students who are not expecting to take MATB41/42.

Exclusion: (MATA22) MATA26; MATA55

Prerequisite: Grade 13 Calculus

Session: Winter Day

MATA40F Introduction to Linear Algebra

Systems of linear equations and related matrix algebra. Vector spaces, subspaces, basis, dimension. Linear transformations: range and kernel, matrix representation. Geometry of R^2 and R^3 .

MATA40F is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on the proofs of theorems as well as their applications.

Prerequisite: Grade 13 Functions and Relations or Grade 13 Algebra or Grade 13 Calculus

Session: Winter Day

MATA45S Linear Algebra I

Complex numbers and polynomials. The determinant and characteristic equation of a matrix. Eigenvectors and eigenvalues for linear transformations of R^n and C^n . Change of basis

and canonical forms for orthogonal and unitary transformations. Diagonalization of quadratic forms.

Prerequisite: MATA40

Session: Winter Day

MATA55Y Calculus with Analysis

Numbers. Induction. Inequalities. mathematics. 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

Geometries 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 R^n , lines and planes in R^3 , complex numbers, matrices, determinants and linear equations. Functions of several variables, partial derivatives, tangent planes, Jacobian matrix, chain rule and total derivative. Vector fields in R^n . Gradient, divergence and curl. Multiple integrals, spherical and cylindrical coordinates, law of transformation of variables.

Exclusion: MATB50

Prerequisite: MATA26, MATA27 or MATA55

Session: Winter Day

MATB42S Techniques of the Calculus of Several Variables II

Paths and path integrals. Surfaces, parametric representations of surfaces, surface integrals. Divergence, Gauss' and Stokes' theorems. Sequences and series of numbers and functions. Taylor series and complex Fourier series. Extremal problems. Extremal problems with constraints and Lagrange multipliers.

Exclusion: MATB50, MATB55

Prerequisite: MATB41

Session: Winter Day

MATB43S Introduction to Analysis

The least upper bound principle for R , limits in R and R^2 , continuous functions in one and two variables, space filling curves and nowhere differentiable functions, existence of extrema on closed and bounded sets, mean value theorems and the fundamental theorems of the calculus, the Riemann integral.

This course is designed for students whose interest in mathematics has been stimulated by their experience in the A26 - B41 - B42 stream, and who wish to acquire the analytic techniques which are essential for more advanced work. In particular MATB43S together with MATB42S may be used instead of MATB55S for prerequisite purposes. There will be a fundamental emphasis on rigorous analytic proofs.

Exclusion: MATA55

Prerequisite: MATA45

Corequisite: MATB42

Session: Winter Day

MATB44F Algebraic Structures I

Groups: subgroups, normal subgroups, quotient groups, homomorphisms, permutation groups. Rings: ideals, quotient rings, homomorphisms, Euclidean rings, polynomial rings. Extension fields, roots of polynomials.

Exclusion: (MATC44)

Prerequisite: MATA45

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 ~~Day~~ *Evening*
J.H. Sobel

MATB55S Analysis II

The topology of the n -dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of n -forms. Exterior calculus. Line integrals, winding number, Green's theorem. Surface integrals and Stokes' theorem. (Mathematical rigour is emphasized.)

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

JMCC32F Graph Theory and Algorithms for its Applications

Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank form scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.

Prerequisite: MATB44 (MATC44) and at least one other B-level course in Mathematics or Computer Science
Session: Winter Day

JPMC42S Advanced Classical Mechanics

Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.

Prerequisite: PHYA03 (PHYA02); MATC51
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

JMCC51S Numerical Methods

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

This course is an introduction to the numerical solution of several types of mathematical problems. The emphasis will be on the analysis of a few reliable methods and on their comparison, for each class of problem. All the algorithms that will be used are available in a software library, so that programing will be restricted to the writing of short driving and linking programmes.

Eight or nine assignments will be given.

The language of the packaged programmes is FORTRAN, for which a brief review will be given.

Exclusion: (MATC53)
Prerequisite: MATA40, MATB42 or MATB55, CSCA68
Session: Winter Day

MATC53Y Real Analysis

Sets and functions, Zorn's lemma, cardinal arithmetic, Schroder-Bernstein theorem. Lebesgue measure and integration, convergence theorems, derivatives and integrals. Continuity compactness and connectedness in metric and topological spaces, Baire category. Banach spaces and the basic tools of functional analysis. Hilbert space and linear operators.

Exclusion: (MATC50), (MATC55)
Prerequisite: MATB49 (MATB40) and MATB55 (In place of MATB55 a student may substitute MATB42 and MATB43)
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

JMPC51S Symbolic Logic II

A continuation of JMPB50F.

The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared.

The text is D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning*.
Prerequisite: JMPB50
Session: Winter ~~Day~~ *Evening*
J.H. Sobel

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

Medieval Civilization

STAB575 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

STAC42S Multivariate Analysis
The multivariate normal distribution and associated distribution theory. Statistical inference for the multivariate normal, principal components analysis, factor analysis, discriminant analysis.
Corequisite: MATB41
Prerequisite: STAB57 (MATB57)

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 1983-84

MATA25S Thinking Mathematically
Prerequisite: One Year 5 (Grade 13) course in Mathematics or permission of instructor.

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.

MATC43F Linear Algebra III
Exclusion: (MATB45)
Prerequisite: MATB49
MATC54F Differential Geometry I
MATC56S Differential Equations II
Prerequisite: MATC51 (or MATB51)

STAC52S Experimental Design
Exclusion: PSYB08
Prerequisite: STAB57

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

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
FEB42F* General History of the French Language
FREC22Y* Introduction to Medieval French Language and Literature
FERB33S* Practicum in the History and Structure of the German Language
GERC23F*) Introduction to Middle High German
JUMC01F/S* Lyric Poetry of the Middle Ages in the Mediterranean Area
JAB31Y* Dante and Medieval Culture
JAB32F* Petrarch and Boccaccio
JATA01Y Introductory Latin
JATB30F*
JATB33F*
JATB35S*
JATB39S*
JATB40Y*
JPAB12S*

Supervised Reading
History of the Spanish Language I
JPAB35F/S* Medieval Prose Literature
JPAB36F* Medieval Poetry

Philosophy and Religion

JLAB21Y* Greek and Roman Religion
JLAB23F/S Christianity in the Greco-Roman World
JUMB20Y* Primitive Christian Literature and Myth
JUMB33Y World Visions from the Late Middle Ages to the Renaissance
JUMC20Y* Jesus in Early Christianity and Judaism
JUMC22S* John: Gospel and Letters
JILB40F Plato and His Predecessors I
JILB41S Plato and His Predecessors II
JILB42F Aristotle I
JILB43S Aristotle II
JILB44F Philosophers of the Middle Ages I
JILB45S Philosophers of the Middle Ages II

JILB61F/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 LINA01Y General Linguistics
- 3 Choose 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.

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/S Materials of Music I
- 2 Two full-course equivalents from:
MUSB04F/S Music of the Renaissance
MUSB05F/S Music of the Baroque Era
MUSB02F/S Music of the Classic Period
MUSB06F/S Music of the Romantic Period
MUSB01F/S Music of the Twentieth Century
(also available on St. George campus as MUS201H, when not offered at the College.)
- 3 One and one half full-course equivalents chosen from MUS courses.
To satisfy the requirements of this section, students may substitute, in consultation with the Supervisor one or more of the MUS courses offered on the St. George campus (but see p. 00, i.e. information on limitation of courses).
- 4 One additional full-course equivalent in Music or another relevant discipline. The following courses are recommended: PHLB03F Philosophy and Art, FARB23 Early Renaissance in Florence, HUMB50S Machiavelli and Aspects of the Italian Renaissance, GERB25Y German Civilization and Culture, DRAB03Y The History of Theatre I.

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. There will be three lecture hours per week.

Session: Winter Day

J. McGee

MUSB01S Music of the Twentieth Century

Tracing the various trends of music in the present century from Debussy to the most recent electronic and multi-media presentations.

Concentration will be on particularly influential composers. The influence of jazz will also be considered.

Selected compositions of Debussy, Schoenberg and Stravinsky are analysed in detail to demonstrate the nature of the revolution which took place in music during the early years of the century. The course continues with a survey of the most significant composers and techniques of the succeeding seventy years. Topics to be discussed include the continuing commitment of some composers to tonality; developments in twelve-tone serialism; the influence of jazz; electronic music; the emergence of new aesthetic attitudes. There will be two lecture hours per week.

Prerequisite: MUSA01

Session: Winter Day

Mayo

MUSB02F Music of the Classic Period

A study of music from the late eighteenth and early nineteenth centuries with emphasis on the works of Haydn, Mozart and Beethoven.

An examination of the origins of the Viennese classical style will be followed by a study of representative works by the three major composers of the classic period. The works will be studied in the context of the political, social and artistic changes which took place in Europe at this time. There will be two lecture hours per week.

Prerequisite: MUSA01

Session: Winter Day

Mayo

MUSB17H Materials of Music I

The basic materials of music from the seventeenth to the nineteenth century.

A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject will be emphasized providing a secure foundation for the development of the student's "inner ear" – that is, the ability to hear mentally what is written and to write down what the inner ear perceives.

There will be two hours of lecture/practical session per week.

Prerequisite: MUSA01

Session: Winter Day

J. Mayo

MUSB19F Keyboard Music

A survey of music for keyboard instruments from the fifteenth century to the present.

The complex relationship between technical innovation in instrument design and stylistic innovation by composers is examined. The main topics for study are: the earliest examples of keyboard instruments, the English virginal school and its European counterparts, the German organ builders and composers of the seventeenth and eighteenth centuries, the keyboard music of J.S. Bach, the French *clavecin* school, harpsichord and fortepiano in the works of Haydn and Mozart, the piano music of Beethoven, the development of the piano in the nineteenth century, the French symphonic organ works, twentieth century developments including microtonal instruments, prepared pianos, electronic keyboard instruments and the revival of interest in early instruments.

Two hours of lecture/discussion per week.

Evaluation will be based on a final exam (1/3), listening and other short assignments (1/3) and an essay (1/3).

Prerequisite: MUSA01Y

Session: Winter Day

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 1983-84**MUSB04F Music of the Renaissance**

Prerequisite: MUSA01

MUSB05S Music of the Baroque Era

Prerequisite: MUSA01

MUSB06S Music of the Romantic Period**MUSB07S The Symphony**

Prerequisite: MUSA01 or (MUSB08)

MUSB11F Music for the Theatre

Prerequisite: MUSA01 or permission of instructor.

MUSB13F Bach

Prerequisite: MUSB09

MUSB14F Jazz**MUSB15F Music in Elizabethan England**

Prerequisite: MUSA01

MUSB18S Beethoven

Prerequisite: MUSA01

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:

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| 1 HUMA01Y | Prologue |
| 2 HUMA10Y | Introduction to the Study of Religion |
| or | |
| HUMA11Y | Greek and Roman Mythology |
| PHLA01Y | Fundamental Questions of Philosophy |
| 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 |
| HUMC10H* | Humanities Seminar |
| 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) |

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|------------|---|
| HISC43F/S* | Selected Topics in Canadian Religious History |
| HISC62Y* | The Crusades |
| HUMB21F/S | The Literature of the Spanish Mystics |
| HUMB29F/S | Religion and Western Culture |
| HUMB35F/S | The Ulysses Factor |
| HUMB39F/S | Fantasy in Narnia and Middle Earth |
| PHLB44F | Philosophers of the Middle Ages I |
| PHLB45S | Philosophers of the Middle Ages II |
| PHLB61F/S | Philosophy of Religion |
| SOCC03Y* | History of Social Thought |
| SOCC20F/S* | Sociology of Religion |

* Students should check these courses for prerequisites.

Natural Science

Sciences for the citizen.

What is a quasar? How many defective genes am I carrying? How many dollars should Canada spend in support of nuclear fusion research? What is a laser? Why didn't the Green Revolution work? Such questions about the late twentieth century view of the universe in which we live, about the complex technology which affects our present lives and changes public issues are difficult to answer without some knowledge of the methods and concepts of the natural sciences. The courses listed below may help those students whose primary interests are in the humanities or social sciences and who may lack high school science or mathematics to come into touch with contemporary science.

Courses Not Offered in 1983-84

NSCA01Y Introduction to Natural Science: The Physical Sciences
Exclusion: PHYA02 or PHYA03 (or PHYA01)

NSCA02Y Introduction to Natural Science: The Biological Sciences
Exclusion: Not open to students who are taking or have taken BIOA03
For (NSCA03Y) QUAA03Y and (NSCB02Y) (QUAB02Y) QUAC01Y see Quaternary Studies

Students should also refer to the following courses:

ASTA03Y	Introduction to Astronomy
GLGA02S	Geology in the Urban Environment
HUMC11Y	The Darwinian Revolution
MATA25S	Thinking Mathematically
PHLB70F	Philosophy of Science
PHLB87S	Contemporary Philosophical Issues
	Biomedical Ethics
SOCB11Y	Sociology of Science

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)
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: Physiology of Motivation and Learning

To be completed by third year of full-time study (or equivalent).

CB35Y	Introductory Biochemistry
CB36H	Laboratory in Biochemistry
PSYB62Y	Research in Physiological Psychology
PHYA03Y	Physics for the Life and Physical Sciences

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.

To be completed by the end of the fourth year full-time study (or equivalent).

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

PSYC90/C93	Supervised Study in Psychology
PSYC01Y/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: I PHYA03, CHMB05, CB35 and JBCB36, so that they would be eligible for the specialist programme.

The following outline indicates the required courses and the most advantageous sequencing in the Major Programme in Neurosciences.

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)
MATA26Y	Calculus (or equivalent)

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: Physiology of Motivation and Learning

3 To be completed by the third year of full-time study (or equivalent).

PSYB62Y	Research in Physiological Psychology
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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)	(General Experimental Psychology)
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
BIOB05Y	Genetics
BIOB08Y	Invertebrate Zoology
BIOB11Y	Animal Population and Evolution
BIOB19S	Biology of Macromolecules

Philosophy

BIOB20F	Cell Ultrastructure
BIOB22Y	Comparative Vertebrate Morphogenesis
BIOB23Y	Developmental Biology
BIOB27Y	Comparative Vertebrate Histology
BIOB31F	Invertebrate Neurobiology
BIOB43Y	General Vertebrate Biology
(BIOC05)S	(Advances in Developmental Biology)

Discipline Representative: G. Nagel
Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two year cycle: those not offered in one academic year will normally be available in the following year while PHLA01, PHLB01, PHLB20, JMPB50 and PHLB60 are offered every year. It should be noted that in almost all subject areas Fall/Spring sequences are offered which when combined provide the equivalent of a full course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative.

Specialist Programme in Philosophy

Supervisor: G. Nagel (284-3182)

Students must complete at least twelve full-course equivalents including:

- 1 PHLA01Y Fundamental Questions of Philosophy
- PHLB01F Morality and Values
- PHLB20F/S Belief, Knowledge and Truth
- JMPB50F Symbolic Logic
- PHLB60F/S Existence and Reality
- 2 Four half-courses from PHLB40F to PHLB49S
- 3 Two full-course equivalents in C-level Philosophy courses
- 4 Six additional half-courses in Philosophy
- 5 Two full-course equivalents from cognate courses in other disciplines agreed upon in consultation with the Supervisor.

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
Two half-courses from PHLB40F to PHLB49S
Two half-courses in C-level PHL courses
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; LISA01Y, European World; ASTA03Y, Introduction to Astronomy; NSCA01Y, Introduction to Natural Science: The Physical Sciences; NSCA02Y, Introduction to Natural Science: The Biological Sciences; as courses which provide important intellectual and historical background for the study of Philosophy.

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?
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*. Three hours of lecture per week.
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: Plato, *The Last Days of Socrates* and *Gorgias*; Nietzsche, *Beyond Good and Evil*. Spring Term Texts to be announced.
Session: Winter Day
W. Graham/JW. Newton-Smith

PHLA01Y: L30 Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

An introduction to philosophy consisting of topics from its major divisions: metaphysics, theory of knowledge, philosophy of religion, ethics, and logic. Reading material is evenly divided between works of great philosophers of the past, and of contemporary philosophers.
Session: Winter Evening
J.H. Sobel

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, deontology.

This course is an introduction to the problems and concepts of ethical theory.
Session: Winter Day
P. Gooch

PHLB04S Philosophy of Literature

An examination of philosophical theories and claims about literary works.
Session: Winter Day

cancelled

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. Two hours of lecture a week.

Session: Winter Day
P. Thompson

PHLB11F Philosophy of Law

A study of some fundamental legal conceptions.

The course has two parts. The first examines the notion of a right: what is a legal right? How are rights related to obligations? are there natural rights? The second part examines the notion of justice: is 'affirmative action' just? can a substantial concept of justice be derived from the notion of rational choice?

Session: Winter Day and Summer Evening
P. Thompson, A. Gombay

PHLB12F Marx and Marxism

The philosophies of Marx, Engels, Lenin and others.

Prerequisite: One course or half-course in Philosophy, Sociology, Political Science or Economics - PHLB10 is recommended but not required.

Session: Winter Day
W. Graham

PHLB16F Philosophy of History

The philosophy of history studies general theories about the nature of the human past and basic problems in the methods of historical research and writing.

Session: Winter Day

PHLB17S Anarchism

A study of major anarchists and problems of libertarian thought and practice; the impact of anarchism on social, cultural and political institutions: classical and contemporary anarchists such as Proudhon, Bakunin, Kropotkin and Tolstoy.

Session: Winter Day
W. Graham

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
W. Newton-Smith

PHLB42F Aristotle I

A study of central themes in the philosophy of Aristotle.

A discussion of Aristotle's thought on psychology, nature, thought and reasoning, and being; the development of Aristotle's conception of philosophy in relation to Plato and the Pre-Socratics. The Aristotelian revolution in philosophy which sought to establish a radically new basis for the relation between human beings and the natural and social worlds, provides a key to the significance of Aristotle for the present age.

Text: *The Basic Works of Aristotle*, Richard McKeon, editor; *The Pre-Socratics*, Philip Wheelwright, editor.

Session: Winter Day
W. Graham

PHLB43S Aristotle II

A continuation of PHLB42F.

A discussion of Aristotle's Ethics and Politics; Aristotle as the founder of a practical philosophy in relation to Plato; the contemporary significance of Aristotle's Ethics. Text: *The Basic Works of Aristotle*, Richard McKeon, editor.

Session: Winter Day
W. Graham

PHLB46F Philosophy of the Early Modern Age I

Philosophy in the seventeenth century.

The political, religious and scientific developments in the sixteenth century upset the medieval reconciliation of faith and reason. In this climate of uncertainty, the philosophers of the seventeenth century try to find a new reconciliation. The course will be a survey of their efforts.

Text: Richard Popkin, *The Philosophy of the Sixteenth and Seventeenth Centuries*. Lectures and discussion.

Session: Winter Evening and Summer Evening
G. Nagel and A. Gombay

PHLB47S Philosophy of the Early Modern Age II

Philosophy in the eighteenth century.

The rapid political and economic changes of the early modern period, the abandonment of classical ideas in the arts, and the progress of science all combine to force eighteenth century thinkers to abandon the seventeenth century search for a stable rational order. In its place they find criticism and naturalism: the assessment of constantly changing ideas, and the accommodation of man to a world of change. This course will be a survey of the main thinkers of the period.

Text: Lewis White Beck, *Eighteenth Century Philosophy*. Lectures and discussion.

Session: Winter Evening
G. Nagel

PHLB50F Symbolic Logic

An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, 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 never presented in lectures. D. Kalish, R. Montague and G. Mar, *Logic: Techniques of Formal Reasoning*.

Session: Winter Day, Winter Evening
J. Sobel

PHLB60S Existence and Reality

Consideration of problems in metaphysics.

Metaphysics is the most general level of philosophy. Instead of limiting its concern to specific problems such as those of conduct, which are studied in ethics, or those of knowledge, which are studied in epistemology, metaphysics considers a wide range of issues in an effort to find an understanding of reality broad enough to encompass all that we have to fit in it. Text: Richard Taylor, *Metaphysics*. Lectures and discussion.

Session: Winter Day
G. Nagel

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.

Session: Winter Day
J. Sobel

PHLB70S Philosophy of Science

A study of philosophical questions raised by the natural sciences.

In 1983 the course will involve an examination of the logical structure of explanation, law and theory; and the role of concepts in one's understanding of the world. Two hours of lecture a week.

Exclusion: PHLB71

Prerequisite: One course or half-course in Philosophy or in the Division of Science.

Session: Winter Day
P. Thompson

PHLB81F Theories of Mind

An examination of the philosophical presuppositions of psychological theories such as those of Freud and Jung, Behaviourism and Existential Psychology. Problems such as the relation of mind and body, conscious and unconscious, the meaning of mentalistic concepts and the analysis of dreaming will be studied.

In 1983-84, the following topics will be studied: pleasure and pain, desire, emotion, and love.

Prerequisite: One B-level course or half-course in Philosophy or Psychology

Session: Winter Day
D. Savan

PHLC02S Contemporary Ethical Theories

The nature of morality. Questions suggestive of its content are: what bearing, if any, have facts established empirically upon values and duties? are values and duties facts of another order quite apart? are values and duties of objective facts of any order, or is ethics rather only a region for decisions and commitments which, though they can be more or less well informed, cannot be objectively right or wrong?

Prerequisite: One full-course equivalent in Philosophy including PHLB01

Session: Winter Day
J.H. Sobel

PHLC05S Biomedical Ethics

An examination of the social and ethical aspects of the life sciences and medicine.

In 1983 the following issues will be discussed: the definition of health and disease, euthanasia, genetic technologies, behaviour control and psychosurgery, health care delivery, and epidemiological models.

Exclusion: (PHLB87)

Prerequisites: PHLB05F/S or PHLB01F/S

Session: Summer Evening
P. Thompson

JHPC44Y Canadian Social Issues: Historical and Philosophical Perspectives

An advanced level seminar that will examine social issues in Canadian society with an emphasis on the historical development of legal and ethical thinking. Limited enrolment: 15.

In 1983-84 we will examine: conscription and pacifism; the status of native Canadians; women in Canadian society; race relations; crime and punishment; religious freedoms. We will examine the historical development of legal and ethical thinking on these issues including an examination of the various positions taken by interest groups and the role they have played in influencing opinion and law in Canada.

Prerequisite: HISB04 or PHLB01 or PHLB05

Session: Winter Day

J.S. Moir and P. Thompson

Cancelled

JMPC51S Symbolic Logic II

A continuation of JMBP50F.

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: JMBP50

Session: ~~Winter Day~~ Winter Evening

J.H. Sobel

PHLC54S Metalogic

An introduction to the metatheory of standard logic.

This course will take up formal interpretations of sentential and predicate logic, proofs of completeness and correctness, theorems concerning various limitations of logical systems, and possible philosophic implications of these things.

Prerequisite: JMBP50

Session: Winter Day

W. Newton-Smith

PHLC61S Studies in Philosophy of Religion

An advanced philosophical consideration of problems raised by religion, religious texts and religious thought.

Prerequisite: PHLB61

Session: Winter Day

P.W. Gooch

PHLC75F/S-C94F/S Seminar in Philosophy

A study in depth of a philosopher or philosophers or of a philosophical problem. Limited enrolment: 15

PHLC90F Seminar in Philosophy: Space and Time

A discussion of the many ways in which space and time are so important and so mysterious.

We will consider whether there really are differences between the past (which seems unalterable) and the future (which seems open to change); why we have two separate systems for locating things in time; what the relationship is between space and time; and other topics. Text: Richard Gale, *The Philosophy of Time*.

Prerequisite: Two B-level half-courses in Philosophy

Session: Winter Day

G. Nagel

PHLC91S Seminar in Philosophy: The Pre-Socratics

A study of the earliest philosophers such as Anaximander, Pythagoras, Heraclitus, Parmenides, Zenbe, Empedocles, etc.

The thought of the Pre-Socratics has intrigued and puzzled philosophers since ancient times. Plato, Aristotle, Hegel, Nietzsche and Heidegger are among those who felt compelled to comment on them. Their writings remain no less puzzling and important in our time.

Prerequisite: Two B-level half-courses in Philosophy

Session: Winter Day

W. Graham

PHLC92S Seminar in Philosophy: Ways of Interpreting the World (1983-84)

An examination of some strikingly different theories concerning the interpretation of nature, history, art, and human experience.

A selection will be made from theories of interpretation proposed by Nelson Goodman, Michel Foucault, H.G. Gadamer, Jacques Derrida, and C.S. Peirce. It is proposed to show that, without slighting their major differences, there is an overlapping agreement on basic principles and problems.

Prerequisite: Two B-level half-courses in Philosophy

Session: Winter Day

D. Savan

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 1983-84

PHLB03F

PHLB10F

PHLB14F

Philosophy and Art

Society, The State and The Citizen

Philosophy of Social Science

Prerequisite: One course in Philosophy or in the Division of Social Sciences.

PHLB15S

Philosophy of Education

PHLB30S

Existentialism

PHLB40F

Plato and his Predecessors I

PHLB41S

Plato and his Predecessors II

Prerequisite: PHLB40

PHLB44F

Philosophers of the Middle Ages I

PHLB45F

Philosophers of the Middle Ages II

PHLB48F

Philosophy in the Late Modern Age I

PHLB49S

Philosophy in the Later Modern Age II

PHLB53S

The Art of Thinking

PHLB71F

Philosophy of Biology

Exclusion: PHLB70

Prerequisite: BIOA03

PHLB80F

Philosophy of Language

PHLC11S

Topics in the Philosophy of Law

Prerequisite: PHLB11

PHLC52S

Modal Logic and Probability

Prerequisite: JMBP50

PHLC53F/S

Games and Decision

Prerequisite: A B-level course in economics, political science, sociology, psychology, philosophy, mathematics or logic.

PHLC71S

Advanced Topics in Philosophy of Biology

Prerequisite: PHLB70 or PHLB71;

permission of instructor

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

*PHLB04S
PHLC02S
JHPC44Y*

Physics

Discipline Representative: P.J. O'Donnell
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 electro-magnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions among the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of X-ray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject.

It is possible to develop, in mathematical language, theories that run so closely parallel to the development of physical phenomena that they may be used to accurately describe and even predict the results of many carefully controlled experiments. The study of physics therefore requires some studies both of mathematics and of the techniques that are needed in the performance of accurate experiments.

Students intending to study physics in depth should select their courses in accordance with the requirements of either the Specialist or Major Programme in Physics. Students whose interests lie in the Life Sciences may choose the pair of courses PHYA03 and PHYB13 which offer a survey of physics with many applications in the Life Sciences and medical physics. PHYB03 along with the laboratory course PHYB08H offers an introduction to electronics and is also available to students outside the Physics Programmes.

The listed pre- and corequisites imply others not explicitly listed: details are available from the Supervisor and the Registrar's Office.

Students interested in physics should also refer to:

NSCA01Y	Introduction to Natural Science: Physical Science
JPAC10Y	Relativity and Cosmology
JPMC42S	Advanced Classical Mechanics

Specialist Programme in Physics

Supervisor: A.E. Jacobs (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
or	
(PHYA02Y	Principles of Physics)
MATA26Y	Calculus
or	
(MATA55Y	Calculus with Analysis)

Second year:

PHYB01S	Electricity and Magnetism I
PHYB03F	Introductory Electronics
PHYB04F	Waves
PHYB08H	Intermediate Physics Laboratory
PHYB17S	Introduction to 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	
PHYC03F	Electromagnetic Fields
and	
PHYC04S	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
JPAC300Y	Physics and Archeology
PHY215H	Geophysics
PHY334H	Introduction to Condensed Matter Physics
PHY335H	Introduction to Nuclear Physics
PHY337H	Elementary Particle Physics
PHY339H	Electronics
PHY344H	Elasticity and Fluid Mechanics
PHY345H	The Physics of Diagnostic and Therapeutic Radiology
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.E. Jacobs

Students must complete eight full-course equivalents in Physics and Mathematics, as specified below. The optional Mathematics courses listed in parentheses are more suitable for students with interests in mathematics and physics or theoretical physics.

It is recommended that all students take at least one half-course in computer science.

First year:

PHYA03Y	Physics for the Physical and Life Sciences
or	
(PHYA02Y	Principles of Physics)
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
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or
(MATB50F, B55S Analysis I, II)
PHYB04F Waves
PHYB17S Introduction to 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, C03F, C04S, 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.
Exclusion: (PHYA02)
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 (or PHYA02) 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 (or PHYA02)
Session: Winter Day

PHYB04F Waves

Topics discussed include wave equations, superposition of waves, emission and absorption of waves, impedance, polarization, interference, and diffraction. Applications are made to

sound waves, radio waves, light waves, surface water waves and waves on a string.

Prerequisite: PHYA03 (or PHYA02); MATA26 or MATA55

Session: Winter Day

PHYB08H Intermediate Physics Laboratory

Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01, PHYB03 and PHYB13). 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.

Prerequisite: PHYA03 (or PHYA02)

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

PHYB18F Special Relativity

Physics at the turn of the century. Stellar aberration and the Michelson-Morley experiment. Reference frames. Galilean transformation. Einstein's postulates. Lorentz transformation. Simultaneity. Lorentz contraction. Time dilation. Twin paradox. Space-time intervals and causality. Addition of velocities. Doppler effect. Visual appearance of moving objects. Accelerations. Relativistic dynamics. Collisions. Conservation laws. Decay and creation of particles. Mass-energy equivalence. Transformation

laws for energy and momentum. Four-vectors. Transformation of forces. Connections with electromagnetic theory.

Prerequisite: PHYA03 (or PHYA02)

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

PHYC03E Electromagnetic Fields

Maxwell's equations, propagation of electromagnetic waves, reflection and refraction at interfaces, waveguides, radiation.

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: PHYB03; PHYB19; PHYB01

Session: Winter Day

PHYC05H Advanced Physics Laboratory

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 make the initiative in overcoming experimental difficulties. One six-hour laboratory period every second week. A single experiment may extend over more than one period.

Prerequisite: PHYB08 and permission of instructor

Corequisite: PHYC01

Session: Winter Day

JPMC42S Advanced Classical Mechanics

Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.

Prerequisite: PHYA03 (A02); MATC51

Session: Winter Day

Courses Not Offered

1983-84

JAC10Y Relativity and Cosmology

Prerequisite: PHYB01; JPMC42, PHYB18F would be desirable.

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, POLC91-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, POLC91-C97
 - C International Relations: POLB80-84, POLC80-84

- D Comparative Politics, Industrial Countries: POLB85-90, POLC85-90
- E Comparative Politics, Developing Countries: POLB91-99, POLC91-97

Specialist Programme in Economics and Political Science

(see under Economics)

POLA01Y Introduction to Political Studies

An introduction to some of the most vexing problems of political life - such as participation, equality, liberty, distribution of power, and the influence of vested interests. Students will examine these problems as they are treated by major political theorists and as they occur in the institutional structures of Canada and some other Western democracies.

Session: Winter Day

E. Andrew

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, Summer Evening

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

POLB53Y Public Policies in Canada

A study of the patterns of growth in federal and provincial policies for economic progress, social order, and human development; of the relationship between changing public policies and Canadian political development; and of the contributions made by instruments of government toward the achievement of basic political values.

Exclusion: (POLB35)

Session: Winter Day

R. Manzer

POLB54S Intergovernmental Relations

An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.

Exclusion: (POLB19)

Prerequisite: POLA01

Session: Winter Day

POLB60Y Public Administration

An examination of the role of the bureaucracy in the Canadian and other political systems, focussing on the organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and ways and means of controlling it.

Exclusion: (POLB05)

Session: Winter Evening

J. Galimberti

POLB65Y Political Behaviour

An introduction to the analysis of political behaviour. This course will examine the empirical and theoretical efforts of political scientists to discern the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology. Lectures and discussion.

Exclusion: (POLB30)

Session: Winter Day

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

E. Andrew

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, Montesquieu, Burke, Tocqueville, J.S. Mill and Marx.

Two hours of lecture.

Exclusion: (POLB03)

Session: Summer Day, 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

POLB81F Canadian Foreign Policy

An examination of the most important elements within Canada's foreign policy since 1945 and a consideration of the issues and the influences which have determined that policy.

Exclusion: (POLB40)

Prerequisite: POLB50 (or POLB01) or (POLB10) POLB50

Session: Winter Day

POLB85Y Comparative Politics of Industrial Societies

A comparative analysis of politics in advanced industrial societies including consideration of the following topics: interaction among political and bureaucratic elites, interest group representation, the dynamics of the welfare state, and future conditions of post industrial societies.

Organization of the course will depend upon enrolment. Preparatory reading might include J.K. Galbraith, *The New Industrial State*.
 Exclusion: POLB18
 Prerequisite: One course in Political Science or Permission of Instructor.
 Session: Winter Day

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. Coe

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

POLB88Y Urban Politics
 An examination of the politics and government in urban areas: the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision-making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.
 Exclusion: (POLB36)
 Session: Winter Day
 P. Petersen

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 govern-

ment policy toward achieving miraculous economic growth will be considered.
 Exclusion: (POLB39)
 Session: Winter Evening
 M. Donnelly

POLB90Y Contemporary British Politics
 The British political system in the context of the very substantial political, economic and social change which has taken place in this society since World War II. During the first term, Britain's constitution and major political institutions are examined, as well as her varied and lasting contribution to democratic government and public administration. Recent developments in the party system and the trade movement are also discussed. The second term will take up a number of major issues in public policy including relations with the E.E.C., economic problems and conflict in Northern Ireland.
 Session: Winter Day

POLB92Y Politics and Society in Independent Africa
 Although the focus of this course is independent Africa, it is about the generic problems of underdevelopment in the third world and the possibilities for progressive change. The three major questions with which the course grapples are the following. To what extent is the fate of poor African countries determined by such external factors as the colonial legacy and what is often referred to as "neo-colonialism" or "neo-imperialism"? To what extent are progressive developmental policies blocked by the power of new vested interest groups created by rapid political and economic change in African countries? What are some of the major political institutions and development strategies through which governments seek to direct change, and how effective are their efforts, given the constraints upon their freedom of action?
 Prerequisite: none, but a course in introductory political science would be helpful
 Session: Winter Day

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 Evening
 V. Falkenheim

POLC50Y (see course notes)
 offered

POLC51S Topics in Canadian Government
 An intensive study of selected important topics in the field of Canadian government and politics.
 This year the topics to be explored will include: the politics and management of Canadian economic policy; secrecy; delegated legislation and its consequences; consequences of structural changes in the machinery of central government.
 The course will be taught in a weekly two-hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion.
 Exclusion: (POLB37)
 Prerequisite: POLB50 or (POLB01)
 Session: Winter Day
 R.S. Blair

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

POLC61S Policy Development
 Analysis of the process of formulating, implementing and evaluating public policy in a modern democratic state with cases based primarily on contemporary policies for economic stabilization, public schooling and criminal justice in Canada.
 Prerequisite: POLB50 or POLB53 or POLB60 (or POLB01, POLB05 or POLB35)
 Session: Winter Day
 R. Manzer

POLC62F Organized Interests and the State
 An investigation of the role of interest groups in the political economy of industrial countries, with particular reference to the origin and growth of organized interests, their internal patterns of organization, the tactics of political influence, and the effect of group activity on government.
 Prerequisite: POLA01 or POLB50 (now B60) or POLB85
 Session: Winter Day
 M. Donnelly

POLC73S Selected Topics in Political Philosophy
 A detailed examination either of selected themes in political philosophy or the works of a particular philosopher. The topics to be studied will be announced annually in the Spring.
 Prerequisite: POLB70, POLB71 or Permission of Instructor
 Session: Winter Day
 S.J. Colman

POLC85Y Comparative Communism
 An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.
 Exclusion: (POLC06)
 Prerequisite: One B-level course in Political Science
 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
 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 1983-84

POLB66Y Psychology and Politics
 Exclusion: (POLB40)
POLB82Y American Foreign Policy
 Exclusion: (POLB86)
 Prerequisite: POLB80 (POLB10) or POLB87 (POLB26)

POLB92Y
 POLB89Y

Psychology

- POLB91Y** Politics of the Third World
Exclusion: (POLB38)
- POLC50Y** Canadian Problems in Comparative Perspectives
Prerequisite: POLB60 (or POLB05) or POLB53 (or POLB35)
- 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)
- POLC70Y** Twentieth Century Political Thought
Exclusion: (POLB29)
- POLC71Y** Canadian Political Ideas
Prerequisite: one of POLB50, POLB70, POLB71, HISB04
- POLC72F** Selected Topics in Political Philosophy
Prerequisite: POLB70, POLB71, or Permission Instructor.
- POLC81S** The Psychology of International Relations
Exclusion: (POLC11F/S)
Prerequisite: POLB66 or POLB80
- POLC86S** Intergovernmental Relations in the European Economic Community
Exclusion: (POLB34)
- POLC91F** Urbanization and Underdevelopment
Exclusion: (POLC13)
Prerequisite: A B-level course in Social Sciences. A prior course on development or some part of the Third World is advisable but not mandatory.
- POLC92S** Multinational Corporations and Underdevelopment
Exclusion: (POLC14)
Prerequisite: One Social Sciences course dealing with the Third World or development.

Associate Chairman:

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.

Specialist Programme in Psychology

Supervisor: G.C. Cupchik 284-3184
The programme requires completion of eleven and one-half full-course equivalents.

- A** Nine and one-half full-course equivalents in Psychology as follows:
- 1 PSYA01Y Introduction to Psychology
 - 2 PSYB07F/S Data Analysis in Psychology and PSYB08F/S Experimental Design in Psychology
 - 3 PSYB01F/S Introduction to Psychological Research and at least one half-course equivalent from among PSYB11F/S, PSYB34F/S, PSYB40F/S, (PSYB41F/S), PSYB53F/S, PSYB62Y. (These courses involve laboratory

exercises and expose students to experimental design and methodology in psychology.) Students electing PSYB62Y also receive one-half course credit toward satisfaction of Requirement 5 or 8.

At least one additional full-course equivalent at the B-level selected from the 10-, 20-, and/or 30-series. (This course grouping represents social, developmental and personality psychology respectively.)

At least one additional full-course equivalent at the B-level selected from the 40-, 60-, and/or 70-series. (This course grouping represents learning, physiological and comparative psychology.)

At least one additional full-course equivalent at the B-level selected from the B-50 series. (This course grouping represents cognitive psychology—human learning, memory, sensation and perception.)

At least two full-course equivalents at the C-level. Not more than one and one-half full-course equivalents at the C-level selected from any one of the three course groupings identified in Requirements 4, 5, and 6 nor more than one full-course equivalent at the C-level selected from the 90-series may be offered in satisfaction of this requirement. (Courses in the 90-series involve supervised study or research.) Be sure to read the section below concerning balloting for C-level courses.

One and one-half additional full-course equivalents at the B- or C- level in any area in Psychology.

Two full-course equivalents at the B- and/or C-level in a discipline or disciplines other than psychology.

Major Programme in Psychology

Supervisor: G.C. Cupchik 284-3184
The programme requires completion of six full-course equivalents in Psychology as follows:

PSYA01Y Introduction to Psychology
PSYB07F/S Data Analysis in Psychology
PSYB01F/S Introduction to Psychological Research

At least one additional half-course at the B-level selected from the 10-, 20- or 30-series. (This series represents social, developmental and personality psychology, respectively.)

At least one additional half-course at the B-level selected from the 40-, 60- or 70-series. (This series represents learning, physiological and comparative psychology.)

6 At least one additional half-course at the B-level selected from the 50-series. (This series represents cognitive psychology - human learning, memory, sensation and perception.)

7 At least one full-course equivalent at the C-level. (This full-course equivalent cannot be composed entirely of courses selected from the 90-series.) Be sure to read the section below concerning balloting for C-level courses.

8 One and one-half additional full-course equivalents at the B- or C- level in any area of Psychology.

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 balloted will be returned in June with registration materials. No students may register in any C-level course for which permission has not been given. For 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.

Prerequisite: PSYA01

Exclusions: (PSYB09), (PSYB52)

Session: Winter Day (F), Winter Evening (F)
G. Biederman, M. Smith

PSYB07F/S Data Analysis in Psychology

Data reduction techniques: frequency distributions, measures of central tendency and variability, linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, and *t* distributions.

Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behaviour of the human species is explained by observing the behaviour of individual persons. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing rea-

sonable 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 (S)
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)

PSYB11F Social Psychology Laboratory

An introduction to conceptual and practical issues concerning research in social psychology, by gaining experience with several different types of research.

This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). Limited enrolment: 25. Lecture, discussion, and laboratory work.
Prerequisite: PSYB07; PSYB10; PSYB01 (beginning 1983-84)

Session: Winter Day
K. Dion

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
K. Dion

JLPB24S Developmental Psycholinguistics

The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing.

There will be lectures and discussions.

Exclusion: (LINB15)

Prerequisite: One full-course equivalent in LIN or PSY.

Session: Winter Day
A. 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)

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.

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 sensory pathways with emphasis on vision; sensitivity; colour and tone; spatial and temporal resolution; contrast; perception of space and movement; perception of pattern and form. The teaching method will be lectures, for which preparatory reading will be important, and classroom demonstrations of many phenomena under discussion.

Prerequisite: PSYA01

Session: Winter Evening

J. Foley

PSYB51S Perceiving and Knowing

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, out-

line 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.

Prerequisite: PSYA01Y

Session: Summer Evening, Winter Evening

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 Day

C. MacLeod

LPB55F Psycholinguistics

Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogenesis will be discussed.

There will be lectures, films and discussion.

Prerequisite: One full course equivalent in either PSY or LIN

Session: Winter Day

G. Gopnik

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.

Co-requisite: PSYB01; PSYB07

Session: Winter Day

C. MacLeod

PSYB60F Brain Mechanisms and Behaviour: I

The relationship between behaviour and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception. Students with prior credit for PSYB65 may take PSYB60 for credit.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behaviour of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement. Three hours lecture and one hour lab or tutorial per week.

Prerequisite: PSYA01; PSYB65 is recommended for students with no Biology background.

Session: Winter Day(F)

N.W. Milgram

PSYB61S Brain Mechanisms and Behaviour: II Physiology of Motivation and Learning

A continuation of PSYB60. Topics covered under the category of Motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward.

Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.

The course is designed to provide students with an understanding of the physiological substrates underlying behaviour. Discussions will centre around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In motivation, the general areas of feeding, sexual behaviour, and reinforcement will be discussed from neurological and neuropharmacological perspectives. Neuro-

physiological 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.

Prerequisite: PSYA01; PSYB07 or STAB57 (MATB57); PSYB01 (PSYB09) or a Biology course; permission of instructor

Corequisite: PSYB60; PSYB61 and PSYB08 are recommended

Session: Summer Evening F/S, Winter Day

N.W. Milgram

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, depres-

sion, psychosis and anxiety. Three hours lecture weekly.

Exclusion: PSYB60

Prerequisite: PSYA01 or permission of instructor.

Session: Summer Evening, Winter Day

D.L. Chute, 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

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

K. Dion

PSYC30F Current Topics in Personality and Motivation

An intensive examination of selected issues and research problems in the areas of personality and motivation. Limited enrolment: 25.

The specific content will vary from year to year.

Prerequisite: PSYB30

Session: Winter Day(F)

A. Kukla

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: Summer Evening(F), Winter Day(S)

J. Pauker

PSYC41S Research in Operant Conditioning

Seminar and supervised research in recent developments in operant conditioning. Limited enrolment: 20.

Prerequisite: PSYB01 (PSYB09), PSYB40 (or PSYB41)

Session: Winter Day

B.B. Biederman

PSYC53S Current Topics in Human Information Processing

An intensive examination of selected issues and research problems in human information processing.

In 1983-84, the course will focus on the application of psychology to the law, particularly the perceptual and memorial processes which influence the giving of testimony.

Session: Winter Day

M. Smith

PSYC54S 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, the training of talent, and effects of perceptual and cognitive handicaps on the development of skills with pictures and words. The research to be considered will emphasize studies on child development. Teaching method includes lectures and student presentations. Pre-requisites: a PSY B20 series or a PSY B50 series.

Session: Winter Day

J.M. Kennedy

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

PSYC85F History of Psychology

Paradigm change in the history of psychology; animism; Greek psychology; the modern era, Descartes, Leibnitz, the English Empiricists; nineteenth century developments; the emergence of descriptive and positivist methodologies; twentieth century approaches; systems theory; functionalism, structuralism, behaviourism, phenomenology. Limited enrolment: 35.

The course examines the diverse contributions of the Greek philosophers which established the foundation of Western thought. The course then turns to the conceptual, methodological and factual developments in both continental and English science and philosophy from the fourteenth to the nineteenth centuries. The appearance of psychology in its modern form in the second half of the nineteenth century is discussed and a critical analysis is provided of the various modern schools including systems theory, functionalism, structuralism, behaviorism and phenomenology.

Prerequisite: PSYA01; two B-level half-courses in Psychology

Session: Winter Evening

G. Cupchik

PSYC90F/S/H

PSYC93F/S/H Supervised Study in Psychology

A reading or research project.

These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must demonstrate that his or her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will normally culminate in a written submission but other bases of evaluation may also be determined by the supervisor.

Prerequisite: Three full-course equivalents in Psychology; permission of instructor

Session: 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.

Quaternary Studies

Courses Not Offered in 1983-84

PSYB56S

Man and Machines

Prerequisite: PSYA01; quantitative skills such as are required in PSYB07, or (PSYB09) are an advantage

PSYB70S

Comparative Psychology

Prerequisite: PSYA01

PSYC40S

Current Topics in Animal Learning

Prerequisite: PSYB40

PSYC52S

Structures in Psychology

Prerequisite: PSYB07 or STAB57 (MATB57) or (PSYB09); PSYB20 or PSYB51; permission of instructor.

PSYC80F

Philosophy and Psychology

Prerequisite: Three B-level half-courses in Psychology and one B-level half-course in Philosophy

PSYB12S
PSYC15F

Major Programme in Quaternary Studies

Supervisor: H.B. Schroeder (284-3136)

The Quaternary Period embraces the last two million years of Earth history. Major climatic changes which occurred during this time resulted in repeated expansion and recession of continental and montane glaciers, alternating wet and dry periods in low latitudes, marked fluctuations in sea level, development of ephemeral but often large inland seas and proglacial lakes, etc.

These dramatic changes have strongly influenced the distribution and, to an extent, the forms of plant and animal life on earth today. Among these are the hominids whose appearance and development coincides with the Quaternary.

Detailed reconstruction of Quaternary environments - involving both the physical and biological components of the landscape - and their placement in a historical context is clearly an interdisciplinary task. Such studies bring together the Quaternary geologist, physical geographer, historical ecologist, paleoanthropologist, archaeologist and many others. In this Programme the student will develop experience in the multidisciplinary approaches used in studying the Quaternary as well as specialist expertise in one or more of the sub-disciplines.

The Programme consists of seven courses, two of which are required: QUAA03Y and 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

plus at least two of:

ANTA01Y

Introduction to Anthropology

BIOA03Y

Introductory Biology

GGRA05Y

Introduction to Physical Geography

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
BI0B12Y	Fundamentals of Ecology
BI0C11Y*	Quaternary Plant Ecology
GGRB07Y*	Geomorphology: The Pleistocene Epoch
GGRC25S*	Sedimentary Models
GGRB03Y	Climatology
GLGB01Y	Mineralogy and Petrology
GLGB02S	Stratigraphy and Sedimentation

* 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, ice movements and their effect on the landscapes, periglacial ecology, faunal extinctions, human origins, the domestication of plants and animals, human migration into the Western Hemisphere, and earliest occupations in Ontario. One two-hour lecture 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. 24.)

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.

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|----------|--|
| FARB15F | Renaissance in Italy |
| FARB16Y | The Arts of Northern Europe, 1400-1500 |
| FARB19F | Michelangelo |
| FARC09F* | Advanced Studies in the High Renaissance I |
| MUSB04F | Music of the Renaissance |
| MUSB15F* | Music in Elizabethan England |
| MUS301H* | Early Music |
| DRAB12B | Medieval and Early Tudor Drama |
| FAH200Y | European Art from 1400-1750 |

3 Language and Literature

The student must take three full-course equivalents in literature, one of which at least must be in a language other than English. In addition to the three literature courses, therefore, he may have to satisfy prerequisites in language, from those listed below.

Prerequisites in French:

FREB06Y Language Practice I
One B-level course in French, not B11F, B12S, or B14S.

Prerequisites in Italian:

ITAA01Y or A11Y or Grade 13 Italian
ITAB01Y or B11Y

Prerequisites in Spanish:

SPAA01Y or Grade 13 Spanish
SPAB01Y
SPAB03S

Courses in the literatures:

ENGB09Y*	Poetry and Prose of the English Renaissance
ENGB10Y	Shakespeare
ENGB12Y*	English Drama to 1642
ENGC04Y*	Studies in the Renaissance Literature
ENGC10F*	Problems in Later Shakespeare
FREC25Y*	Literature of the 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	Philosophers of the Middle Ages I
PHLB45S	Philosophers of the Middle Ages II
PHLB40F	Plato and His Predecessors I
PHLB41S	Plato and His Predecessors II
PHLB42F	Aristotle I
PHLB43S	Aristotle 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

Two full-course equivalents from the following:

FARB15F	Renaissance in Italy
FARB16Y	The Arts of Northern Europe, 1400-1500
FARB19F	Michelangelo
FARC09F*	Advanced Studies in the High Renaissance I
MUSB04F	Music of the Renaissance
MUSB15F*	Music in Elizabethan England
MUS301H*	Early Music
DRAB12B	Medieval and Early Tudor Drama
FAH200Y	European Art from 1400-1750

3 Language and Literature

Three full-course equivalents from the list under (3) of Specialist Programme.

Russian

Discipline Representative: S. Whalen

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. *All Russian literature courses, with the exception of RUSC01Y, C02F, C03S, C04H, C05Y, are taught in translation and are open to non-specialists.*

College Programme in Russian and Related Studies

Supervisor: S. Whalen (284-3258)

This Programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a Programme in Russian and Related Studies can do much to promote a better understanding between East and West, in academic, governmental, industrial, journalistic and other fields.

The Programme is aimed at two different groups of students: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature or Russian and Soviet history, political science or economics; second, those interested in a general knowledge of the area as a complement to some other field of study.

The Programme requires the completion of ten full-course equivalents, one of which must be at the C-level:

1 Two consecutive courses in Russian language from RUSA10Y, RUSB02Y, RUSC05Y.

2 Four courses to be chosen from the following three groups and to include one from each group:

a	RUSB11Y	The Nineteenth-Century Russian Novel 1830-1880
	RUSB21Y	Twentieth Century Russian Fiction, 1900-1940
	RUSB23Y	Soviet Russian Underground Literature from the 1920's to the Present
	RUSC01Y	Twentieth Century Russian Poetry
b	HISB07Y	Russia from the Thirteenth Century to the Present
	HISC78Y	The Russian Intelligentsia
c	POLB86Y	Soviet Government and Politics
	ECOA01Y	Introduction to Economics

3 Four further full-course equivalents to be chosen from (2) or from the following list and to be approved by the Supervisor:
RUSA01Y Russian Culture

RUSB16Y	The Fiction of Leo Tolstoy
RUSB17Y	Dostoevsky's Major Fiction
RUSB24F	The Russian Symbolist Novel
RUSB25Y	Post-1945 Soviet Russian Literature
RUSC05Y	Supervised Reading
HISB18Y	Europe under the Enlightened Despots
POLC85Y	Comparative Communism
ECOB68S	Comparative Economic Systems
ECOC07F	The Economics of Karl Marx
PHLB12F	Marx and Marxism
PHLB17S	Anarchism
HUMB44F	Disaster and the Literary Imagination
HUMB13Y	The Russian Revolution of 1917
HUMB42S	Dostoevsky and the West

Overseas Programme

Students in the Russian and Related Studies Programme, after completing their second year of Russian language study, become eligible to apply to go to the Pushkin Institute of Russian Language and Literature in Moscow, USSR, as participants of the Russian Studies Programme at Dalhousie University in Nova Scotia.

Each year some twelve Canadian students are selected by Dalhousie to spend four months studying Russian in Moscow (February - May). The programme involves 4 1/2 hours of intensive instruction per day by Soviet staff; students are housed three to a suite at the University Hotel; late afternoons and evenings are free for cultural and other activities. The cost, which covers air transportation Montreal-Moscow return, tuition, texts, room and board, is \$2,500.

Before applying to Dalhousie, and in order to improve their chances, interested students are encouraged to undertake some additional Russian language study in a supervised reading course.

For information consult the Supervisor.

Major Programme in Russian Language and Literature

Supervisor: S. Whalen (284-3258)

The Programme consists of seven full-course equivalents:

1 Two consecutive courses in Russian Language from RUSA10Y, RUSB02Y, RUSC05Y
2 Five further full-course equivalents to be chosen from:
RUSA01Y, RUSB11Y, RUSB17Y, RUSB21Y, RUSB23Y, RUSB24F, RUSC01Y, RUSC03S, RUSC04H, HUMB42S, HUMB44F

Students must include at least one full-course equivalent at the C-level

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

RUSA10Y Introductory Russian

Fundamentals of Russian grammar, with emphasis on comprehension and 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. In addition to structural oral work in laboratory and class, free conversation based on material read is encouraged. Four class hours, in addition to which the student is expected to spend one hour in the language laboratory. The textbook is, *Colloquial Russian*, W. Harrison et al. Routledge, Kegan Paul.

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. Four hours a week in two intensive two-hour sessions 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.

Exclusion: RUSA11 (Prerequisite to RUSA10)
Prerequisite: RUSA10 or completion of Grade 13 Russian

Session: Winter Day
C. Ponomareff

RUSB11Y The Nineteenth-Century Russian Novel, 1830-1880

A study of the Russian novel during this half century of great literary achievement.

Attention will be focussed on realistic, romantic, grotesque, and psychological forms of writing, emphasizing the continuity and variety of these different literary forms. The course will also explore the human and social vision behind these works. Texts: A. Pushkin, *The Captain's Daughter*; M. Lermontov, *A Hero of Our Time*; N. Gogol, *Dead Souls*; I. Turgenev, *Fathers and*

Sons; F. Dostoevsky, *Crime and Punishment*; L. Tolstoy, *Anna Karenina*. Two hours per week of lecture and discussion.

Session: Winter Day
C. Ponomareff

RUSB17Y Dostoevsky's Major Fiction

A study of Dostoevsky's novels.

Particular attention will be paid to his ideological and artistic significance in the development of nineteenth-century Russian literature and culture. Lecture and tutorial, two hours a week.

Session: Winter Day
C. Ponomareff

RUSC02F

RUSC03S

RUSC04H

RUSC05Y Supervised Reading

These supervised reading courses are designed for individual or very small groups of students who would like to pursue specific projects in Russian language and/or literature. Classes usually meet every other week for a two-hour session and students engaged in a literary project are expected to produce a paper in their area of study.

Prerequisite: RUSB02

Session: Winter Day or Winter Evening
Staff

Courses Not Offered in 1983-84

RUSA01F

Russian Culture

RUSB21Y

Twentieth Century Russian Fiction (1900-1940)

RUSB23Y

Soviet Russian Underground Literature from the 1920's to the Present

RUSB24F

The Russian Symbolist Novel

Social Science

SOSB01S Origins of the Social Welfare System

The philosophy and history of the Canadian welfare system. Its religious, secular, political and economic origins will be explored in some detail. Against this historical and ideological background, some current problems will be examined: guaranteed income, services for children and the elderly.

Session: Winter Day

NOTE Please refer to the Women's Studies section of the Calendar for additional Social Science courses.

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 ANTB51Y; ANTC45F/S or ANTC46F/S; PHLB05F/S; PHLC05F/S; PSYB32F/S; PSYB65F/S; SOCB17F/S

2 Two full-course equivalents from the following group: ANTB44Y; PHLB71F/S; PHLC71F/S; PSYC66F/S; SOCB11Y; SOCB19Y; SOCC28F/S; ANTB47F/S; and whichever course of ANTC45F/S or ANTC46F/S was not selected in 1

Note: ANTA01Y and PSYA01Y are normally prerequisites for ANT and PSY courses in this programme.

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.

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
- 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: Summer Evening, Winter Day, Winter Evening

R. O'Toole, J.-L. deLannoy

SOCB01Y Methods in Social Research

The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports. Several studies will be examined in detail, and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses.

Prerequisite: One full-course equivalent in Sociology

Corequisite: SOCB06

Session: Winter Evening

SOCB02Y Structure of Interpersonal Relations

Patterns of interaction and influence in interpersonal relations. The course begins with a consideration of the problem of social order; i.e., how do we constrain individual desires and induce people to act morally. We will also examine the problem of the "absurd", using Camus' *Outsider*. This will be followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "altercasting" our behaviour, with examples drawn from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

J. Lee

SOCB03Y History of Social Thought

A study of the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. The course begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.

Prerequisite: One full-course equivalent in Sociology

Session: Winter Day

J.-L. deLannoy

SOCB04Y Political Sociology

A review of social and political theories; major political ideologies; political development and emergence of modern nation-states; political action (political protests, revolutions and wars of independence). The course will examine a number of contemporary issues such as the question of national unity, labour and politics, wage and price control, immigration law etc.

Prerequisite: One course in Sociology

Session: Winter Day

J. MacKinnon

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

SOCB07Y Small Groups

Analyses of small group behaviour with special reference to the dynamics of structure formation, conflict patterns, maintenance patterns, and patterns of change. 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 Evening

Cancelled

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, Summer Evening

R. James

SOCB09F Sociology of the Family as an Institution

An examination of the family in its community, institutional and historical setting, emphasizing the various social factors which will affect family life and its changing nature.

Exclusion: (SOCB12)

Prerequisite: SOCA01

Session: Winter Day, Summer Evening

M. Baker

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: Winter Day

M. Hammond

SOCB13Y Canadian Society

An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of energy resources, the future of Quebec and the question of a distinctive national identity.

Prerequisite: One course in Sociology

Session: Winter Day

SOCB17S Medical Sociology

Social factors in sickness and health, training of doctors and nurses, organization of health care services, and alternatives to conventional medical care. This course is designed to meet the needs of students in both the natural and the social sciences.

Session: Winter Day

M. Hammond

SOCB18Y Sociology of Deviant Behaviour

The analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant 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

SOCB19Y Sociobiology

An investigation of the linkages between sociology and the sciences of biological evolution. The course begins with an introduction to the basic principles of evolution in the natural sciences and a review of attempts by late nineteenth and early twentieth century theorists to link sociology to these sciences. The major part of the

course will focus on the most recent attempts to apply an evolutionary perspective to the study of man. The course will consider such issues as the use of studies in non-human social organization as models for man's social activities; the potential addition of sociological ideas to research in the natural sciences; and the possibility of using man's evolutionary context of origin as a basis to test current theory in sociology and to construct new theory.

Session: Winter Day

M. Hammond

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

M. Baker

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

SOCB25F Sociology of Education: University and Adult Levels

Allocation and training of upper-level students, and relationships of higher education to the occupational system. Problems of education or retraining of older adults.

Exclusion: (SOCC08)

Prerequisite: SOCA01

Session: Winter Day

R. O'Toole

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: Summer Evening, Winter Day, Winter Evening

M. MacKinnon

SOCC02S Research on Small Groups

A 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 internal structures of social relationships.

Prerequisites: SOCB01 and SOCB07 or permission of the instructor

Session: Winter Day

W. Isajiw

SOCC03F Collective Behaviour

The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Evening

R. O'Toole

SOCC04S Social Movements

The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its routinization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings on movements.

Prerequisite: Two courses in Sociology, including a B-level course.

Session: Winter Day

S. Ungar

SOCC05Y Contemporary Social Theory

A consideration of basic questions underlying sociological thinking as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally

required, a previous course in social and/or political theory (e.g. SOCB03Y) would be a distinct asset.

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Evening

J.-L. deLannoy, W. Isajiw

SOCC10S Sex, Self and Society

A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements.

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

Session: Winter Day

M. Baker

SOCC13S Industrial Sociology

Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.

Prerequisite: One B-level full-course equivalent in Sociology (JCSB27 recommended)

Session: Winter Day

M. MacKinnon

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 Day

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

SOCC29S Variant Family Forms

A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns in the 1970's. Included will be "singleness", "living together", androgyny as a life style, non-monogamous forms, voluntary childlessness, communes and co-operatives, and "swinging". Special reference to structural and functional dimensions, role changes, special problems and community response.

Prerequisite: SOCB08 and SOCB09

Session: Winter Day *Evening*
R.L. James

SOCC30S Criminal Behaviour

An advanced study of the causes and consequences of criminal behaviour, with special emphasis on Canada.

Exclusion: (SOCC21)

Prerequisite: SOCB18

Session: Winter Day
M. Baker

SOCC40F 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

Special topics in contemporary social theory, designed as a final year course for students taking a Specialist Programme in Sociology.

Prerequisite: SOCB03, SOCB01, and SOCB06

Session: Winter Day
J. Lee

SOCC43S Advanced Seminar in Research Methods

Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology.

Prerequisite: SOCB03, SOCB01 and SOCB06

Session: Winter Day
S. Ungar

Courses Not Offered in 1983-84**SOCB05Y Urban Sociology**

Prerequisite: One full-course equivalent in Sociology

SOCB11Y Sociology of Science**SOCB14Y Comparative Social Structure**

Prerequisite: One full-course equivalent in Sociology

SOCB15Y Sociology of Mass Media and Communications

Exclusion: (SOCC14)

Prerequisite: SOCA01

SOCB16Y Social Change

Prerequisite: One full-course equivalent in Sociology

SOCB23Y Population

Prerequisite: One full-course equivalent in Sociology or JCSB27

SOCC01F/S Sociology of Revolution

Prerequisite: Two full-course equivalents in Sociology (SOCB14 and SOCB16 recommended)

SOCC06F Applied Sociology

Prerequisite: Two courses in Sociology

SOCC07S Sociology of Occupations and Professions**SOCC11S Sociology of Law and Law Enforcement**

Prerequisite: SOCB18

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

SOCC17F Social Change in the Third World

Prerequisite: Two courses in Sociology, one of which must be a B-level. (SOCB14 and SOCB16 recommended.)

SOCC18Y**Sociology of Art and Culture**

Exclusion: SOCC09 and SOCC18F/S

Prerequisite: Two full-course equivalents in Sociology

SOCC18F**Sociology of Knowledge**

Exclusion: (SOCC22)

Prerequisite: SOCB03

SOCC20Y**Sociology of Religion**

Exclusion: (SOCC20F/S)

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course.

SOCC24S**Changing Family Life in Canada**

Prerequisite: Two courses in Sociology, one of which must be a B-level course.

SOCC25F/S**Comparative Race Relations**

Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

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

Spanish

Discipline Representative: R. Barta

Students enrolling in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature.

Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may prove valuable to these students as adjuncts to their plan of study or as an enrichment of their total programme.

Students intending to enrol in the Specialist Programme in Modern Languages or in the Specialist Programme in Language and Literature should consult the listing in the Calendar.

It is important that students enrolled in Spanish, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, confer with the relevant Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

Major Programme in Spanish Language

Supervisor: R. Barta (284-3205)

Seven full-course equivalents are required as follows:

SPAA01Y/A	Introductory Spanish (Note: Students who have Grade 13 Spanish must complete, in place of SPAA01, one full-course equivalent from SPA courses which are not named in the programme.)
SPAA02H	Language Practice I
SPAB01Y/B	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. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

Major Programme in Spanish Language and Literature

Supervisor: R. Barta (284-3205)

Seven and one-half full-course equivalents are required as follows (A01Y/A and A02H do not count towards Programme requirement):

- 1 SPAB01Y/B Intermediate Spanish
SPAB02H Language Practice II
SPAC01Y Advanced Spanish
SPAB04F Phonetics
SPAB12S History of the Spanish Language I
- 2 SPAB03F/S Pre-literary Examination of Texts
HUMB15Y The Civilization of Spain
or
HUMB14Y Topics in Latin American Culture and Literature
SPAB18Y Survey of Spanish Literature I
or
SPAB19Y Survey of Spanish Literature II

- 3 One half-course from each of the following areas:
 - a) Medieval Literature: B35F/S, B36F/S, HUMC01F/S
 - b) Golden Age Literature: JSDB24F/S, B25F/S, B26F/S, HUMB21S
 - c) Modern Literature (Peninsular and/or Latin American): B13F/S, B17F/S, B27F/S, B29F/S, B30F/S, B33F/S, HUMB45S
 Information on the sequence and scheduling of these courses should be obtained from the Supervisor.

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

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

K. Gödde and staff

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 staff

SPAB03S Pre-literary Examination of Texts

The basic elements of style with rapid reading and comprehension of texts of various periods.

This is not a literature course, but one which provides training in the methodical analysis of literary texts from Spain and Latin America. Its purpose is to develop the critical skills on which the understanding and enjoyment of literature depend. Two lecture/tutorial hours per week, with a further tutorial hour to be arranged. Regular attendance and class participation are essential.

There will be regular oral and written commentaries on assigned texts.

NOTE: Since this course is a prerequisite for several Spanish literature courses, students are reminded that it should be taken in the same year as SPAB01.

Corequisite: SPAB01

Session: Winter Day

R. Barta

SPAB04F Phonetics

Articulatory phonetics; Spanish speech sounds; intensive practice in their production and transcription.

The objectives of the course are to develop good pronunciation of Castilian (with attention to variations in other dialects) and to provide an introduction to further linguistic work. The weekly lecture concentrates on the description and distribution of Castilian speech sounds and emphasizes basic intonation patterns. In the tutorial hour students practise exercises in articulation, transcription, and dictation. There is one laboratory hour per week of intensive oral practice.

Corequisite: SPAA01

Session: Winter Day

R. Skyrme

SPAB12S History of the Spanish Language I

The languages of Spain, from pre-Roman times to the medieval period.

The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romance languages. A survey of the pre-Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in non-Classical texts (inscriptions, glosses, etc.). The main segment of the course deals with the evolution of the sound- and form-systems of Latin into Peninsular Romance, focussing on the growth of the Castilian dialect. Class participation and discussion are encouraged. Three hours per week in lecture/tutorial format.

Corequisite: SPAB04

Session: Winter Day

R. Skyrme

SPAB17F The Nineteenth-Century Spanish Novel

Evolution of the Spanish novel in the nineteenth century traced through reading and discussion of the work of representative exponents of *Costumbrismo*, Regionalism, Realism, and Naturalism.

A sampling of prose-writing in the Romantic period will lead to an investigation of the gradual emergence of the nineteenth-century Spanish novel as a mature literary form, and in particular the problem of the late rebirth of the realist novel with Galdós. Following reading and discussion of costumbrista and regional novels, attention will be focussed on the theory and practice of realism and naturalism in Spain

against the background of their counterparts outside the Peninsula. This course is an option for the Major Programme and open to all qualified students. Two hours per week in lecture/tutorial format.

Prerequisite: SPAA01

Session: Winter Day

R. Skyrme

SPAB18Y Survey of Spanish Literature I

Reading, analysis and discussion of Peninsular Spanish literature from the twelfth to the seventeenth centuries, with the object of acquainting the student with the major literary movements of each period, the authors and their works.

Lectures on background material. Areas of study include the Medieval lyric, epic and clerical poetry; Medieval prose and drama; Renaissance poetry, prose and drama; Humanism; Mysticism; literature of the Baroque period.

Three lecture/discussion hours weekly. Class participation is essential.

Prerequisite: SPAA01

Session: Winter Day

R. Barta

SPAB21F Stylistics and Translation

The examination of Spanish literature in relation to the resources of the language.

This course includes an analysis of the principles of stylistics applied to pertinent problems inherent in the study of Spanish texts of various periods, especially those dealing with the translation of literary texts. Students will be made aware of the several modern schools of literary investigation both extrinsic and intrinsic, as well as the several approaches to translation and the levels of difficulty inherent in particular texts. A certain amount of creative composition is expected.

Two-hour lecture/practice session weekly.

Prerequisite: SPAB01

Session: Winter Day

R. Barta

SPAC01Y Advanced Spanish

Intensive study of grammar and syntax; translation, composition, and oral practice.

Detailed examination of the subtleties of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. Three hours per week in lecture/tutorial format. Course required for Spanish Major, but open to all qualified students.

Prerequisite: SPAB01

Session: Winter Day

R. Barta

**SPAC02F-C36F
C07S-C10S**

C11Y Supervised Reading

Students who wish to enter the Spanish Supervised Reading programme should enrol in any of the above courses (Y, F or S as appropriate). They should then contact a particular instructor in the discipline and discuss with him a proposed topic. Students should have sufficient background in the area they want to study more closely, and they should provide a rationale for choosing a specific topic. They will be expected to read much of the material on their own, and to meet with their tutor once a week. The exact arrangements will depend on the nature of the text and the level of ability of the students.

Specific topics in Peninsular Spanish and Latin American literature, linguistics and culture.

Prerequisite: SPAB03; one course in Spanish Literature

Session: Winter Day

R. Barta, 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
HUMC01S Lyric Poetry of the Middle Ages in the Mediterranean Area

Courses Not Offered in 1983-84

- SPAB13F Romanticism
Prerequisite: SPAA01
SPAB19Y Survey of Spanish Literature II
Prerequisite: SPAA01
SPAB22S History of the Spanish Language II
Prerequisite: SPAB12
JSDB24F Golden Age Drama
Exclusion: (SPAB24)
SPAB25S Golden Age Prose
Prerequisite: SPAB03
SPAB27S The Poetry and Theatre of Garcia Lorca
SPAB29F Spanish American Literature: The Short Story
Prerequisite: SPAA01

- SPAB30S The Novel of the Mexican Revolution
Prerequisite: SPAA01
SPAB33S Spanish American Poetry 1880-1920
Prerequisite: SPAB03
SPAB35S Medieval Prose Literature
Prerequisite: SPAB03
SPAB36F Medieval Poetry
Exclusion: (SPAB24)
SPAC20S Advanced Conversation
Corequisite: SPAC01Y

Statistics

Staff member responsible for curriculum: M. Evans

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics 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
STAB57S Probability and Statistics II
STAC42S Multivariate Analysis
STAC67F Regression Analysis
For further information see under Mathematics.

Courses Not Offered in 1983-84

- STAC52S Experimental Design
Exclusion: PSYB08
Prerequisite: STAB57

Women's Studies

Major Programme in Women's Studies

Supervisor: C. Bertrand-Jennings (284-3151)
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

Timetable

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 the particular topics are: the origins of misogyny; sexual stereotyping; poetry and propaganda; and the family - myth and reality. A detailed bibliography will be distributed at the first session.

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

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, 1983

Monday 16th May:

Classes for 'F' 'H' 'A' and 'Y' courses begin

Thursday 30th June:

Classes for 'A' and 'F' courses end

Monday 4th July:

Classes for 'B' and 'S' courses begin

Friday 19th 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.	Course Title	Day & Time
ANTA01Y	Introduction to Anthropology	TR7-10E
COMA01Y	Financial Accounting	MW7-10E
COMB01Y	Management Accounting	TR7-10E
DRAB13A	The Victorian Theatre	MTWR7-10E
ECOB03Y	Price Theory	TR5-7E
ECOB07Y	Macroeconomic Theory & Policy	TR7-10E
ECOB11F	Quantitative Methods in Economics	MW7-10E
ENGA08Y	Twentieth-Century Literature	TR7-10E
ENGB31Y	Modern Drama	MW7-10E
FARB84A	Introduction to Etching	MTWR7-10E
FARB85B	Intermediate Etching	MTWR1-4
HISB46Y	Atlantic Canada	MW7-10E
HISC21Y	Urbanization & Social Change in 19th Century England	TR7-10E
JCSB27Y	Organizational Behaviour	MW7-10E
PHLB11F	Philosophy of Law	TR7-10E
PHLB46F	Philosophy of the Modern Age I	MW7-10E
PHLC05S	Biomedical Ethics	TR7-9E
POLB50Y	Canadian Government and Politics	TR7-10E
PSYB51F	Perceiving and Knowing	TR5-7E
PSYB62Y	Research in Physiological Psychology	MW5-7E
PSYB65F	Biological Foundations of Behaviour	TR7-10E
PSYC20F	Current Topics in Developmental Psychology	MW7-10E
PSYC32F	Current Topics in Abnormal Psychology	TR7-10E
SOCB08F	Sociology of the Family as a Group	TR7-10E
SOCB09S	Sociology of the Family as an Institution	TR7-10E

Supervised Reading & Research Courses

Supervised Reading & Research courses are available through the summer as long as previous permission of a member of faculty has been obtained.

Scarborough Language Institute

Intensive summer French courses are offered in the second term at all levels.

For further information please refer to Scarborough Language Institute Information Package (available in room H331A*).

FREA06B	Introductory French	*TBA
FREA07S	Elementary Conversation I	*TBA
FREA16B	Elementary French	*TBA
FREA17S	Elementary Conversation II	*TBA
FREB06B	Language Practice I	*TBA
FREB07S	Intermediate Conversation I	*TBA
FREB16B	Language Practice II	*TBA
FREB17S	Intermediate Conversation II	*TBA
FREB39S	Workshop in Modern French Theatre	*TBA
FREC06B	Language Practice III	*TBA
FREC16B	Advanced French	*TBA

Stratford Summer Seminars (non-credit)

For further information please contact Mrs. Lois Pickup, 284-3185

English Writing Skills

To be announced.

CONICROSS L31 W7-10
L30 W7-10
B10B22Y M7-9 (P3001 R9-12)
(P3002 R2-5)

Winter Session Evening Courses

ANTB24Y	Anthro. of Religion	T7-10
ANTB24Y	Introduction to Anthropology	M7-10
ANTB26Y	Comparative Mythology	T7-10
ANTB26Y	Introduction to Prehistoric Archaeology	R7-10
ANTB26Y	Childhood in Contemporary Cultures	W7-10
ANTC28S	The Prehistoric Archaeology of Canada	M7-10
ASTB03S	Great Moments in Astronomy	T7-9
ASTB04F	Qualitative Geomology	T7-9
CLAB21Y	Greek and Roman Religion	R7-9
COMA01Y	Financial Accounting	T7-10 L30
COMB01Y	Management Accounting	W7-10 L31
COMC01Y	Intermediate Financial Accounting	T7-10 L30
COMC00S	Product Management	M7-10 L31
COMC07S	Market Research	R7-10
COMC04E	Management Control Systems	M7-10
COMC15Y	Income Tax	M7-10 L30
COMC50F	Advanced Accounting	W7-10 L31
COMC55S	Current Issues in Accounting	R7-10
COMC60S	Auditing	M7-10
CSCA56F	Computer Programming	R7-9
DRAB03Y	The History of Theatre I	T7-9 T3001
DRAB06Y	Canadian Drama	M7-9
ECOA01Y	Introduction to Economics	T7-10
ECOB03Y	Price Theory	R7-10
ECOB07Y	Macroeconomic Theory and Policy	W7-10
ECOB11S	Quantitative Methods in Economics	R7-10
ECOB12F	Quantitative Methods in Economics: Applications	M7-10
ENGA01Y	English Literature: Practical Criticism and Interpretation	M7-10
ENGB07Y	Canadian Literature in English: An Introduction	R7-10
ENGB09Y	Prose and Poetry of the English Renaissance 1500-1660	M7-9
ENGB27Y	Canadian Fiction in English	W7-10
ENGB95Y	English Literary Criticism	W7-10
ENGCB6F	Selected Topics in Renaissance Literature	M7-9
ENGCB6S	Selected Topics in Renaissance Literature	M7-9
FARA10F	Ancient Art and Architecture	T7-9
FARA70F	Two and Three Dimensional Design	M7-10
FARA71S	Colour	M7-10
FARA90Y	Foundation Studies in Studio	W7-10
FARB16Y	The Arts in Northern Europe ca. 1400-1500	W7-9
FARB60Y	The Arts in Canada: 1670-1960	M7-9
FARB70F	Introductory Drawing	R7-10
FARB72F	Introduction to Printmaking (Screen Process Printing)	T7-10
FARB74S	Intermediate Drawing	T7-10
FREB06Y	Language Practice I	R7-10
FREB16Y	Language Practice II	W7-10
FREB24Y	French Thought and Literature in the Age of Enlightenment (1715-1789)	T7-9
FREB42F	General History of the French Language	M7-9
FREB43S	The French Language in Canada	M7-9
GRHB01Y	Greek History from the Bronze Age to the Death of Alexander	T7-9
HISB40S	Women in the Western World from the Renaissance to the Present	T7-9

GLG A02S Confessions in the Urban Environment

HISC20H Anglo Saxon England T7-10
HUM B73S Religious Themes in the Films of Werner Herzog 'R6-10'

HISB43Y	The Evolution of Ontario 1850-1950	W7-9
HISC41F	Old Huronia	W6-7 T3001
HISC62Y	The Crusades	M7-9
HUMA01Y	Prologue	R7-9
HUMB60F	Women Artists in Society	R8-10
HUMB80Y	Creative Writing: An Introduction	R6E T3001
JCEB54S	Industrial Relations	R6E T3002
JCEC02Y	Corporation Finance	R7E T3003
JCEC75S	Investments	R7E T3004
JCSB27Y	Organizational Behaviour	R7-9
JHIB71F	Italian Cinema	T7-10
JMPB50F	Symbolic Logic	T7-10 L30
JMPC51S	Symbolic Logic II	W7-10 L31
PHLA01Y	Fundamental Questions of Philosophy	M7-10
PHLB46F	Philosophy of the Early Modern Age I	R7-10
PHLB47S	Philosophy of the Early Modern Age II	T6T7-10
POLB60Y	Public Administration	T7-10
POLB69Y	Politics and Society in Contemporary Japan	T7-10
POLB93Y	The Chinese Political System	W7-10
PSYA01Y	Introduction to Psychology	W7-10
PSYB01F	Introduction to Psychological Research	M7-10
PSYB07S	Data Analysis in Psychology	T7-9 P3001
PSYB10F	Introduction to Social Psychology	R7-10
SYB32F	Abnormal Psychology	R4 T3001
SYB32S	Abnormal Psychology	R5 T3002
SYB45S	Behaviour Modification: Origins and Applications	R6E T3003
SYB50F	Sensation and Perception	R6E T3004
SYB51S	Perceiving and Knowing	R7-9
SYC20S	Current Topics in Developmental Psychology	M4 T3004
SYC85F	History of Psychology	T4 T3002
OCB01Y	Methods in Social Research	W4 T3003
OCB07Y	Small Groups	R2 T3004
OCC03F	Collective Behaviour	T6E T3005
OCC05Y	Contemporary Social Theory	T6E T3006
OCC28F	Sociology of Aging	T9E T3007
OCC29S	Variant Family Forms	T9E T3008
		W7-10
		R7-10
		W7-10
		T7-10
		M7-9
		M6 T3001
		M9E T3002
		M4 T3003
		M7-10
		T7-10
		R7-10
		T7-10
		T7-10
		R7-10
		M7-10
		M7-10

COMCO4F L30 m7-10
L31 w7-10
COMCO5B L30 w7-10

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CSCA58F	L01	MW2	DRAC10Y	L01	TBA	ECOB41S	L01	MW12	ENGB20F	L01	TR10
	L02	MW4	DRAC11Y	L01	TBA	ECOB45F	L01	M12-2	ENGB21S	L01	TR10
	T0001	M3-5	DRAC12Y	L01	TBA	ECOB47S	L01	WF11	ENGB24Y	L01	MW11
	T0002	T10-12	DRAC13Y	L01	TBA	ECOB51S	L01	M12-2	ENGB25F	L01	R1-5
	T0003	W3-5	DRAC14Y	L01	TBA	ECOB61S	L01	W2-4	ENGB26Y	L01	M3-5
	T0004	R11-1	DRAC20Y	L01	TBA	ECOB62F	L01	W2-4	ENGB27Y	L30	W7-10E
	T0005	R3-5	DRAC21Y	L01	TBA	ECOB66F	L01	MW9	ENGB31Y	L01	M3-5
	T0006	M9-11	DRAC22Y	L01	TBA	ECOB68S	L01	M3-5	ENGB33Y	L01	MWF10
	T0007	F11-1	DRAC23Y	L01	TBA	ECOB81Y	L01	MW10	ENGB34S	L01	MWF1, 10001 R1
	T0008	F1-3	DRAC24Y	L01	TBA	ECOB82Y	L01	WF10	ENGB71F	L01	TR11 10002 R2
	T0009	T1-3	DRAC25F	L01	TBA	ECOC05S	L01	W2-4	ENGB72S	L01	TR11 10003 R4
	T0010	W11-1	DRAC26S	L01	TBA	ECOC07S	L01	W2-4	ENGB95Y	L30	W7-10E
	T0011	W12-2	DRAC27F	L01	TBA	ECOC08S	L01	F9-11	ENGC14Y	L01	TBA
CSCA66S	L01	MW2	DRAC28S	L01	TBA	ECOC11F	L01	TBA	ENGC15Y	L01	TBA
	T0001	M3-5	ECOA01Y	L01	MWF11	ECOC12S	L01	TBA	ENGC65F	L30	M7-9E
	T0002	F2-4		L02	MWF12	ECOC13F	L01	F2-4	ENGC66S	L30	M7-9E
	T0003	R9-11		L03	MWF1	ECOC14S	L01	F2-4	ENGC81F	L01	M3-5
	T0004	F11-1		L30	R7-10E	ECOC15F	L01	M3-5	ENGC93F	L01	M2W2-4
	T0005	R10-12		T0101	M2	ECOC16S	L01	M3-5	ENGC94S	L01	M2W2-4
CSCA68S	L01	MW2		T0102	T12	ECOC21F	L01	F11-1			
	L02	MW4		T0103	R1-3	ECOC22S	L01	F11-1	FARA10F	L30	T7-9E
	T0001	M3-5		T0201	M11	ECOC23F	L01	W3-5	FARA11S	L01	R3-5
	T0002	T9-11		T0202	M3	ECOC24S	L01	M3-5	FARA12F	L01	T11-1
	T0003	W3-5		T0203	W3				FARA13S	L01	M3-5
	T0004	R11-1		T0301	M9	ENGA01Y	L01	MWF11	FARA70F	L01	R1-4
	T0005	R3-5		T0302	T11		L02	MWF10		L30	M7-10E
	T0006	F2-4		T0303	T12		L03	MWF11	FARA71S	L01	R1-4
	T0007	W11-1		T0304	R1		L04	MWF10		L30	M7-10E
	T0008	T2-4		T0305	R2		L05	MWF12	FARA90Y	L01	T9-12
	T0009	F11-1		T0306	F9		L06	T1R1-3		L30	W7-10E
	T0010	R1-3	ECOB03Y	L01	MWF9	ENGA02Y	L01	MWF1	FARB02S	L01	R11-1
CSCB28S	L01	M4F2		L02	MWF11	ENGA08Y	L01	TR2	FARB11F	L01	R3-5
	T0001	F12		L03	MWF2		T0001	M9	FARB15F	L01	R9-11
	T0002	F3		L30	W7-10E		T0002	M10	FARB16Y	L30	W7-9E
	T0003	F4	ECOB07Y	L01	MWF12		T0003	M12	FARB41F	L01	T2-4
CSCB58F	L01	MF11		L02	MWF1		T0004	M9	FARB46F	L01	W2-4
P0003 R2-5	P0001	TBA R9-12		L03	MWF12		T0005	M11	FARB47F	L01	T9-11
P0003 T2-5	T0001	M12		L30	R7-10E		T0006	M12	FARB54F	L01	R11-1
	T0002	F3	ECOB11F	L01	M2W2-4		T0007	M9	FARB60Y	L30	M7-9E
	T0003	F4		L02	MWF2		T0007	M9	FARB62S	L01	T11-1
CSCB68F	L01	M4F2		L30	M7-10E		T0008	M10	FARB70F	L30	R7-10E
	T0001	F12	ECOB11S	L01	M12-2	ENGB01Y	L01	MWF11	FARB72F	L30	T7-10E
	T0002	F3		T0101	M9	ENGB06Y	L01	MWF10	FARB74S	L30	T7-10E
	T0003	F4		T0201	W1	ENGB07Y	L30	R7-10E	FARB75Y	L01	T1-4
CSCC34F	L01	M12W12-2		T0202	F10	ENGB09Y	L30	M7-10E	FARB82F	L01	R9-12
CSCC64S	L01	M12W12-2		T0203	MWF2	ENGB10Y	L01	MW9	FARB83S	L01	R9-12
CSCC68F	L01	M3W9-11	ECOB12S	L01	M7-10E		T0001	T10	FARB90F	L01	TBA
CSCC78F	L01	M9W2-4 mwf11, 10001 w3	ECOB13S	L01	M2W1-3		T0002	T11	FARB91S	L01	TBA
CSCC85S	L01	M10W2-4	ECOB20F	L01	R10-12		T0003	T1	FARB92Y	L01	R1-4
	P0001	TBA	ECOB21S	L01	MW12 m2-4	ENGB11Y	L01	W2-4	FARC02F	L01	TBA
DRAB01Y	L01	MWF12-2	ECOB31F	L30	MW9 W7-10	ENGB12Y	L01	MWF12	FARC03S	L01	TBA
DRAB02Y	L01	F11-1	ECOB32F	L01	WF10	ENGB14Y	L01	T2-4	FARC04Y	L01	TBA
DRAB03Y	L30	T7-9E	ECOB35S	L30	MW9 T7-10	ENGB15Y	L01	W2-4	FARC11F	L01	F2-4
DRAB06Y	L30	T7-10E	ECOB37S	L01	MW9	ENGB16Y	L01	MF2	FARC12F	L01	M3-5
DRAC01Y	L01	T2-5	ECOB41F	L01	MW11		T0001	T10	FARC14S	L01	T2-4
							T0002	T11	FARC21Y	L01	TBA

FARC22Y	L01	TBA	GERB50S	L01	MWF12
FARC24F	L01	TBA	GERB63F	L01	MWF10
FARC25S	L01	TBA	GERB70S	L01	MWF10
FARC90F	L01	TBA	GERC10Y	L01	MWF11
FARC91S	L01	TBA	GERC30F	L01	TBA
			GERC33F	L01	TBA
FREA06Y	L01	TR9-11	GERC36S	L01	TBA
	L02	M3-5W2-4	GERC40S	L01	TBA
FREA16Y	L01	M3-5W2-4	GERC43F	L01	TBA
	L02	TR9-11	GERC46S	L01	TBA
FREB02Y	L01	TR9	GERC48Y	L01	TBA
	L02	MW9	GERC50Y	L01	MWF2
FREB06Y	L01	MWF9			
	L02	MWF10	GGRA04Y	L01	R9-11
	L03	M2W2-4		P0001	T1
	L04	T11-1R11		P0002	T2
	L05	MWF1		P0003	T3
	L06	T1R1-3		P0004	R1
	L30	R7-10E		P0005	R2
FREB16Y	L01	MWF11		P0006	R3
	L02	T1R1-3	GGRA05Y	L01	T9-11
	L30	W7-10E		P0001	T11-1
FREB17S	L01	MWF10-12		P0002	W11-1
FREB18Y	L01	MW9	GGRB01Y	L01	T9-11
FREB21F	L01	F2-4	GGRB03Y	L01	M10-12
FREB24Y	L30	T7-9E	GGRB05Y	L01	T11-1
FREB26Y	L01	WF9	GGRB13Y	L01	T2-4
FREB38F	L01	MF12	GGRB15Y	L01	W9-11
FREB40F	L01	MF2		P0001	R3-5
FREB41S	L01	MF2	GGRB17Y	L01	M1-3
FREB42F	L30	M7-9E	GGRB19Y	L01	T2-4
FREB43S	L30	M7-9E		P0001	M9-11
FREB48Y	L01	MW2		L01	W2-4
	L01	MW10	GGRB24Y	L01	MW9
FREB49Y	L01	T2-4	GGRB27F	L01	MW9
FREB80F	L01	WF10	GGRB28S	L01	MW9
FREB81S	L01	WF10	GGRB29Y	L01	R9-11
FREC02F	L01	TBA	GGRB30F	L01	R11-1
FREC03S	L01	TBA		P0001	R2
FREC04F	L01	TBA	GGRB31S	L01	R11-1
FREC05S	L01	TBA		P0001	R2
FREC06Y	L01	MWF11	GGRC01Y	L01	TBA
	L02	MWF12	GGRC04F	L01	W2-4
FREC07S	L01	TBA	GGRC12S	L01	T9-11
FREC09Y	L01	WF11	GGRC18F	L01	MW11
FREC25Y	L01	MW1	GGRC20F	L01	T9-11
FREC33S	L01	M2W2-4	GGRC25S	L01	W11-1
FREC39S	L01	MF12	GGRC30S	L01	W11-1
FREC40Y	L01	F2-4	GGRC31S	L01	MW11
FREC90Y	L01	TBA	GGRC35H	L01	M1-3
			GLGA01Y	L01	W2-4
GERA09H	L01	MW2		P0001	M11-1
GERA10Y	L01	MWF9F2		P0002	M1-3
GERB19Y	L01	MWF12	GLGA02S	L30	F9-11 T7-10
	L02	MWF1	GLGB01Y	L01	F9-11
GERB20Y	L01	MWF11		P0001	F11-1
				P0002	F1-3

GGRC13S L01 W2-4

LGBO2S	L01	W9-11	HISB06Y	L01	T2-4
	P0001	T4-6		T0001	T9
LGCO1Y	L01	T2-5F12		T0002	T10
LGCO2S	L01	TBA	HISB07Y	L01	MW12
LGCO3Y	L01	TBA		T0001	F2
				T0002	F3
LHB01Y	L30	T7-9E	HISB10S	L30	T7-9E
LHB03Y	L01	M3-5		T3001	TBA
	T0001	W4	HISB13Y	L01	MW2
LHB25Y	L01	MWF2		T0001	R4
			HISB17Y	L01	T9-11
LKA01Y	L01	MTWF1		T0001	R2
LKA10F	L01	MWF1		T0002	R3
LKB01S	L01	MWF1	HISB21F	L01	MW1
LKB10Y	L01	TR11-1	HISB22S	L01	MW1
LKB22Y	L01	T4R3-5	HISB23Y	L01	MW12
LKB30F	L01	TBA		T0001	T2
LKB31F	L01	TBA		T0002	T3
LKB32F	L01	TBA	HISB31Y	L01	T11-1
LKB33F	L01	TBA		T0001	T2
LKB34F	L01	TBA		T0002	T3
LKB35S	L01	TBA	HISB35Y	L01	W2-4
LKB36S	L01	TBA		T0001	M2
LKB37S	L01	TBA	HISB42Y	L01	T2-4
LKB38S	L01	TBA		T0001	W4
LKB39S	L01	TBA	HISB43Y	L30	W7-9E
LKB40Y	L01	TBA		T3001	W6-7E
			HISB46Y	L01	T9-11
LSA01Y	L01	TR12		T0001	T3, T0002 T2
	T0001	F1	HISB61Y	L01	T11-1
	T0002	F2		T0001	W1
	T0003	F3	HISC01F	L01	TBA
	T0004	F1	HISC02S	L01	TBA
	T0005	F2	HISC03Y	L01	TBA
	T0006	F3	HISC15Y	L01	R11-1
	T0007	M1	HISC19S	L01	R9-11
	T0008	M2	HISC21Y	L01	M3-5
	T0009	M1	HISC32Y	L01	M3-5
	T0010	M2	HISC41F	L30	M7-9E
LSA02S	L01	MW11	HISC62Y	L30	R7-9E
LSB02Y	L01	MW10			
	T0001	R9	HUMA01Y	L30	R8-10E
	T0002	R10		T3001	R6E
	T0003	R12		T3002	R6E
	T0004	F10		T3003	R7E
	T0005	F11		T3004	R7E
LSB03Y	L01	MW9	HUMA11Y	L01	MW10
	T0001	F9	HUMB14Y	L01	W2-4
	T0002	F10		T0001	TBA
	T0003	F9	HUMB18F	L01	W2-4
	T0004	F10	HUMB17Y	L01	M3-5
LSB04Y	L01	MW2	HUMB19F	L01	W2-4
	T0001	F2	HUMB23S	L01	MW9
	T0002	F3	HUMB25F	L01	MW9
	T0003	F4	HUMB27S	L01	MWF11
	T0004	F2	HUMB28Y	L01	F2-4 R9-11, T0001 T9
	T0005	F3	HUMB35F	L01	T2-4 T0002 T10

HISC20H L30 T7-10E

HUM373S L30 R6-0E

HUMB39F	L01	MWF11
HUMB45S	L01	T11-1
HUMB60F	L30	R7-0E
HUMB61S	L01	M2W2-4
HUMB70Y	L01	M3-5
	T0001	M12
	T0002	M1
HUMB80Y	L30	R7-9E
HUMC10H	L01	TBA
HUMC25Y	L01	M3-5
HUMC91F	L01	TBA
HUMC92S	L01	TBA
HUMC93Y	L01	TBA
HUMC95Y	L01	TBA
HUMC96Y	L01	TBA
HUMC97Y	L01	TBA
HUMC98Y	L01	TBA
HUMC99Y	L01	TBA
ITAA01Y	L01	MWF10
ITAA02H	L01	MW11
ITAA03S	L01	T9-11R10
ITAA11Y	L01	MWF10
ITAB01Y	L01	MWF11
ITAB03F	L01	MWF9
ITAB04H	L01	M3-5
ITAB06S	L01	MWF9
ITAB10Y	L01	MWF11
ITAB11Y	L01	MWF11
ITAB20S	L01	T2-4F2
ITAB22F	L01	MWF12
ITAB23S	L01	MWF12
ITAB31Y	L01	MWF1
ITAB34F	L01	MWF11
ITAB36S	L01	M2W2-4
ITAB44F	L01	M2W2-4
ITAC01Y	L01	MWF10
ITAC50F	L01	TBA
ITAC51F	L01	TBA
ITAC52F	L01	TBA
ITAC53F	L01	TBA
ITAC54F	L01	TBA
ITAC55S	L01	TBA
ITAC56S	L01	TBA
ITAC57S	L01	TBA
ITAC58S	L01	TBA
ITAC59S	L01	TBA
ITAC60Y	L01	TBA
JBCB35Y	L01	TR12
JBCB36H	L01	M4
	P0001	R2-5
JCEB54S	L30	T7-10E
JCEB72F	L01	M3W3-5
JCEB73S	L01	M3W3-5

JCEC02Y	L01	T2-4
	L30	T7-10E
JCEC03F	L01	W7-10E
JCEC40S	L01	MW11
JCEC70S	L01	R11-1
JCEC73S	L30	M7-10E
JCSB27Y	L01	TR10
	L30	R7-10E
JHIB71F	L30	T6-10E
JHPC44Y	L01	R11-1
JHSA01Y	L01	R1-3
	T0001	R11
	T0002	R10
JHSC01H	L01	TBA
JLPB24S	L01	T1R1-3
JLPB55F	L01	T1R1-3
JMCC32F	L01	M9W10-12
JMCC51S	L01	MWF9
JMPB50F	L01	MWF11
	L30	T7-10E
JMPC51S	L01	MWF11
	L30	T7-10E
JPMC42S	L01	T2F10-12
LATA01Y	L01	MTWF12
LATA10F	L01	MWF12
LATB01S	L01	MWF12
LATB20F	L01	MWF12
LATB30F	L01	TBA
LATB31F	L01	TBA
LATB32F	L01	TBA
LATB33F	L01	TBA
LATB34F	L01	TBA
LATB35S	L01	TBA
LATB36S	L01	TBA
LATB37S	L01	TBA
LATB38S	L01	TBA
LATB39S	L01	TBA
LATB40Y	L01	TBA
LATC01F	L01	TBA
LATC02S	L01	TBA
LINA01Y	L01	MWF1
	L02	MWF1
	L03	MWF11
LINA04S	L01	M3-5W4
LINB02S	L01	MWF1 2
LINB04F	L01	MWF1
LINB08F	L01	M3-5
LINB09F	L01	MWF1 2
LINB11Y	L01	MWF10
LINB27S	L01	MWF1
LINB28S	L01	M3-5
LINB29F	L01	T2-4R3
LINC01F	L01	TBA

INC02S	L01	TBA
INC03F	L01	TBA
INC04S	L01	TBA
INC05Y	L01	TBA
INC06Y	L01	W2-4
MATA26Y	L01	MF9
	L02	MF10
	L03	MF10
T0001	M11-1	
T0002	M3-5	
T0003	T9-11	
T0004	T1-3	
T0005	W9-11	
T0006	W3-5	
T0007	R9-11	
T0008	R3-5	
T0009	F11-1	
T0010	F2-4	
T0011	F1-3	
T0012	F3-5	
T0013	R3-5	
T0014	R1-3	
T0015	T3-5	
T0016	T1-3	
T0017	W9-11	
T0018	W3-5	
T0019	R9-11	
T0020	R3-5	
MATA27Y	L01	MWF1
	L01	MF10
T0001	M11-1	
T0002	M3-5	
T0003	T9-11	
T0004	T1-3	
T0005	W9-11	
T0006	W3-5	
T0007	R9-11	
T0008	R3-5	
T0009	F11-1	
T0010	F2-4	
MATA40F	L01	TR9
	L02	TR10
T0001	M3-5	
T0002	T11-1	
T0003	W9-11	
T0004	W3-5	
T0005	R11-1	
T0006	R3-5	
T0007	F11-1	
T0008	F1-3	
T0009	R11-1	

MATA45S	L01	TR9
	T0001	M3-5
	T0002	T11-1
	T0003	W9-11
	T0004	W3-5
	T0005	R11-1
	T0006	R3-5
	T0007	F11-1
	T0008	F1-3
MATA55Y	L01	MF9
	T0001	T3-5
	T0002	R11-1
	T0003	R3-5
MATB25Y	L01	M3R3-5
MATB41F	L01	MF1
	T0001	M2-4
	T0002	T9-11
	T0003	F10-12
	T0004	R9-11
	T0005	R1-3
	T0006	M9-11
	T0007	F3-5
MATB42S	L01	MF1
	T0001	T9-11
	T0002	R11-1
	T0003	R3-5
	T0004	F3-5
MATB43S	L01	MWF11
MATB44F	L01	MF10W4
MATB49S	L01	M2F2-4
MATB50F	L01	T9R9-11
MATB55S	L01	T9R9-11
MATB70S	L01	M12F10-12
MATC49S	L01	M2R3-11 TBA
MATC51F	L01	M4-6F4
	T0001	R11
MATC53Y	L01	MWF1
MATC54S	L01	T11R11+
MATC60F	L01	M3R3-5
MATC65S	L01	M3R3-5
MUSA01Y	L01	M2W2-4
MUSB01S	L01	T11-1
MUSB02F	L01	T11-1
MUSB17H	L01	T2-4
MUSB19F	L01	R11-1
MUSB20H	L01	MW12
MUSB21H	L01	MW12
MUSB22H	L01	M3
	P0001	TBA
MUSB23H	L01	M3
	P0001	TBA

6 POLC507 L01 W2-4.

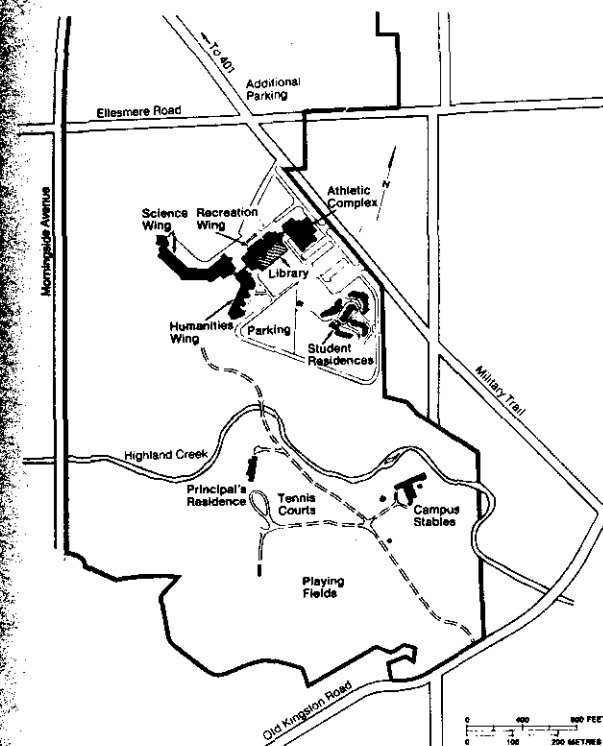
6 POLC507 L01 W2-4.

SOCB08S	L01	T9-11	SPAB01Y	L01	F10-12W11
	T0001	T4		L02	W10-12F2
	T0001	R9	SPAB02H	L01	M10-12
	T0003	R10		L02	M3-5
	T0004	R11	SPAB03S	L01	R11-1
	T0002	R2	SPAB04F	L01	MWF12
SOCB09F	L01	T9-11	SPAB12S	L01	MWF12
SOCB10Y	L01	M3-5	SPAB17F	L01	T11-1
	T0001	M1	SPAB18Y	L01	MWF1
SOCB13Y	L01	R11-1	SPAB21F	L01	R11-1
SOCB17S	L01	T2-4	SPAC01Y	L01	MWF10
SOCB18Y	L01	R3-5	SPAC02F	L01	TBA
	T0001	T3	SPAC03F	L01	TBA
	T0002	T4	SPAC04F	L01	TBA
	T0003	F9	SPAC05F	L01	TBA
	T0004	F10	SPAC06F	L01	TBA
SOCB19Y	L01	T11-1	SPAC07S	L01	TBA
	T0001	T4	SPAC08S	L01	TBA
SOCB20Y	L01	MW10	SPAC09S	L01	TBA
SOCB24F	L01	T2-4	SPAC10S	L01	TBA
SOCB25F	L01	R9-11	SPAC11Y	L01	TBA
SOCC02S	L01	R11-1			
SOCC03F	L30	T7-10E	STAB52F	L01	TR1
SOCC04S	L01	R2-4		T0001	T9-11
SOCC05Y	L30	R7-10E		T0002	W3-5
SOCC10S	L01	W1 MW1		T0003	R9-11
SOCC13S	L01	MW12		T0004	R3-5
SOCC22S	L01	T2 R3-5		T0005	F1-3
SOCC28F	L30	M7-10E	STAB57S	L01	TR1
SOCC29S	L30	F2 M7-10		T0001	T9-11
SOCC30S	L01	F10-12 T2-4		T0002	W3-5
SOCC42F	L01	W3-5		T0003	R9-11
SOCC43S	L01	T1-3		T0004	R3-5
SPAA01Y	L01	M9-11F10	STAC22S	L01	T9-11R10
	L02	T9-11F9	STAC67F	L01	T9-11R10
SPAA02H	L01	W9-11			
	L02	W3-5			

Telephone Directory: frequently called numbers

Associate Dean	284-3124	Registrar's Office	
Athletic Association (S.C.A.A.)	284-3395	Records (Registration, transcripts, etc.)	284-3127
Bookstore	284-3251	Admissions/Liaison Counsellor	284-3359
Cafeteria	284-3110	Timetable, classroom allocation, examinations, etc.	284-3300
Career Counselling and Placement	284-3292	Student Services	284-3292
Cashier's Office	284-3103	Registrar	284-3266
Community Relations Office (Events enquiries)	284-3243	Residence Office	
Computer Centre	284-3122	Office	284-3174
Fees Office	284-3116	Dean of Students in Residence	284-3210
Health Service	284-3253	Riding Stables	282-5303
Humanities Division		Security Desk	
Classics, History, Philosophy	284-3185	(including lost and found)	284-3396
Drama, Music	284-3126	Social Sciences Division	
Fine Art, English, Humanities, Linguistics	284-3146	Receptionist	284-3137
Languages	284-3151	Chairman's Office	284-3149
Chairman's Office	284-3304	Student Councils	
Library		Scarborough College Student Council (S.C.S.C.)	284-3135
Inquiry, Circulation Desk	284-3246	U of T S.A.C. desk	284-3219
Reference Desk	284-3183	Student Services Office	284-3292
Life Sciences Division		Teaching-Learning Unit	284-3181
Biological Sciences, Psychology	284-3237	Writing Laboratory	284-3369
Chairman's Office	284-3291		
Physical Sciences Division			
R-Wing Office	284-3342		
S-Wing Office	284-3227		
Chairman's Office	284-3289		
Physical Services (Parking enquiries, etc.)	284-3203		
Post Office	284-3271		
Pub	284-3177		
Principal's Office			
Principal	284-3111		
Assistant to Principal	284-3243		
Recreation Centre			
Counter (Squash reservations, etc.)	284-3392		
Office (Athletic programme information)	284-3393		

Campus Location



Scarborough
College
Campus

CALENDAR

1983

January S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	April S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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September S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	October S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	December S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

CALENDAR

1984

January S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	April S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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To be completed by the student

Name

Session

Student number

Course

Proposed area of study

Previous courses in discipline

Signed

Date

To be completed by the instructor

Student's name

Course number

I approve his/her registration in the course, and agree to act as the supervisor of studies.

Method of evaluation*

Signed

Date

*The Grading Practices Policy stipulates that students must be informed of the method of evaluation by the last date to add a course.

