

University of Toronto Scarborough College

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Convocation and
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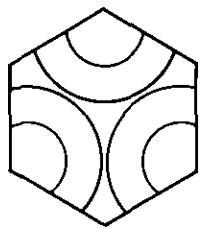
calendar
1979-80



1979-1980
Scarborough College

university of toronto scarborough college

calendar
1979-80



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IMPORTANT NOTES

a) Course Selection

Students are urged to study carefully pages 31 and 32 before reading the course descriptions. These pages contain important information concerning; the designation and numbering of courses; the meanings of prerequisite and co-requisite requirements and of exclusions; and information about supervised reading, supervised research and independent study courses.

A number of courses are jointly offered by different disciplines. These courses are described on page 135.

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

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in the first week of classes a list of all registrants, and those students without the instructor's permission will be withdrawn.

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

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

b) Academic Regulations and Degree Requirements

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

c) Curriculum Changes

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

d) Enrolment Limits

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

e) Registration

Students will receive from the Registrar's Office, registration information and the Schedule of Fees as follows:

- Returning students - With their Statement of Results
- New students - With their Letters of Admission
- Re-enrolling students - With a letter confirming their re-enrolment.

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

ACADEMIC CALENDAR

Summer Session 1979

	1 April	Last day for new students to apply for admission to the University for the Summer Session wishing to enrol in 'Y', 'A', 'F' or 'H' courses.
	15 May	Last day for new students to apply for admission to the University for the 1979 Summer Session wishing to enrol in 'B' or 'S' courses. Applications will be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration.
Friday	11 May	Last day to register for 'Y', 'A', 'F' and 'H' courses.
Monday	14 May	Classes for 'Y', 'A', 'F' and 'H' courses begin.
Friday	18 May	Last day to add 'Y', 'F' or 'H' courses.
Monday	21 May	Victoria Day - University closed.
Friday	8 June	Last day to withdraw from 'A' and 'F' courses.
Friday	22 June	Last day of classes in 'A' and 'F' courses on St. George and Erindale Campus.
Monday	25 June -	Examination week in 'A' and 'F' courses on St. George and Erindale Campus.
Thursday	28 June	
Thursday	28 June	Last day of classes in 'A' and 'F' courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.
Friday	29 June	Last day to register for 'B' and 'S' courses.
Monday	2 July	Dominion Day holiday - University closed.
Tuesday	3 July	Classes for 'B' and 'S' courses begin.
Friday	6 July	Last day to add 'B' or 'S' courses.
Friday	20 July	Last day to withdraw from 'Y' or 'H' courses.
Friday	27 July	Last day to withdraw from 'B' or 'S' courses.
Monday	6 August	Civic Holiday - University closed.
Monday	13 August	Last day of classes for 'Y', 'B', 'H' and 'S' courses on St. George and Erindale campus.
Tuesday	14 August -	Examination week for 'Y', 'B', 'H' and 'S' courses on St. George and Erindale Campus.
Friday	17 August	
Friday	17 August	Last day of classes in Scarborough Campus courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.

Winter Session 1979-80

	1 June	Last day for current students to request admission to another College.
	30 June	Last day for new students to apply for admission to the University for the Winter Session 1979-80 wishing to enrol in 'Y', 'A', 'F' and 'H' courses. Applications will be accepted after the above dates to the maximum extent possible. However, applications received by the above dates will receive priority consideration. Labour Day - University closed.
Monday	3 September	
Tuesday	4 September - 5 September	Registration for students who did not complete all registration procedures previously.
Monday	10 September	Classes for the 1979-80 Academic Year begin. 'Y', 'H', 'F' and 'A' courses begin.
Friday	21 September	Last day to enrol in 'Y', 'H', 'F' or 'A' courses.
	30 September	Last day for receipt of applications for Government Assistance Programmes.
Monday	8 October	Thanksgiving Day - University closed.
Friday	2 November	Last day to withdraw from first term 'F' or 'A' courses.
	15 November	Last day for receipt of application for University of Toronto In-Course Awards.
Friday	7 December	Last day of classes in the first term.
Monday	10 December	Last day for submission of term assignments in 'F' and 'A' courses.
Monday	10 December -	
Friday	21 December	Term test and final examination period.
1980		
Monday	7 January	Classes for the second term begin. Second term 'B' and 'S' courses begin. Last day to register for 'S' and 'B' courses.
Friday	18 January	Last day to enrol in 'S' or 'B' courses.
Friday	15 February	Last day to withdraw from 'Y' and 'H' courses.
Monday	18 February -	
Friday	22 February	Reading Week - all classes cancelled.
Friday	29 February	Last day to withdraw from 'S' or 'B' courses.
Friday	4 April	Good Friday - University closed.
Friday	11 April	Last day of classes.
Monday	21 April	Last day for submission of term assignments for 'Y', 'H', 'S', or 'B' courses.
Monday	21 April	Annual examinations begin.
Friday	9 May	Annual examinations end.
Monday	16 June	University Convocation begins.

ADMINISTRATION AND FACULTY OF SCARBOROUGH COLLEGE

Principal	J.E. Foley, B.A., Ph.D.
Assistant to the Principal	C. Caton, B.A., M.Sc.
Associate Dean	J.R. Warden, M.A.
Dean of Students in Residence	E.W. Dowler, A.M., Ph.D.
Chairman, Division of Humanities	P.W. Gooch, M.A., Ph.D.
Associate Chairman	J.N. Grant, M.A., Ph.D.
Administrative Assistant	A.P. Western
Chairman, Division of Life Science	G.R. Williams, B.Sc., Ph.D., D.Sc.
Chairman, Division of Physical Sciences	J. E. Dove, B.Sc., M.A., Ph.D.
Associate Chairman	J.S. Halperin M.Sc., Ph.D.
Administrative Assistant	J. Norman
Chairman, Division of Social Science	R.S. Blair, M.A., M.A.
Associate Chairman	R. O'Toole B.A., M.A., Ph.D.
Administrative Assistant	M. Kimmerley
Registrar	G.E.L. Curri
Associate Registrar	N.H. Dobbs, B.A.
Assistant Registrar	M. Gerrard
Administrative Assistant	L. Pearson
Admissions/Liaison Counsellor	J.M. Hurd, B.A.
Manager of Business Services	J.F. Brook
Administrative Assistant, Personnel	J.P. Hope
Administrative Assistant, Accounts	(T.B.A.)
Administrative Assistant, Residences	N. Mawson
Librarian	J.L. Ball, M.A., M.L.S., Dip.Lib, A.L.A.
Co-ordinator, Collection Dept.	M. Wiederkehr, M.L.S.
Co-ordinator, Technical Services	P. Yamamoto, B.A., M.S. in L.S.
Head, Reference Service	R. Farrow, B.A., M.L.S.
Reference Librarian	L. Le, B.A., M.L.N.
Reference Librarian	M. Chadwick-Evans, B.A., M.L.S.
Head, Scarborough-Erindale Technical Services	A. Gregorovich, B.A., B.L.S.
Director, Summer Language Institute	W.J. Kirkness, M.A., Ph.D.
Director of Writing Laboratory	B. Corben, M.A.
Director of Athletics	T. Pallandi, B.P.H.E., B.A., M.S.
Assistant Director of Athletics	J. Laaniste, B.Sc., B.Ed.
Assistant Director of Athletics	M.A. Pilskalnietis, B.P.H.E.
Physician	T.W. Fox, B.A., M.D., F.R.C.P.(C)
Physician	A.M. Breuls, M.D.
Psychiatrist	Taylor Statten, M.D., F.R.C.P.(C)
Manager of Physical Services	G.A. FitzGerald
Assistant Manager of Physical Services	R.L. Wright

Division of Humanities

Classics

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

Drama

M.Q. Schonberg, M.A., Ph.D. (Toronto), *Assistant Professor*
 L.L. Browne, M.A., Phil.M. (Toronto), *Lecturer*

English

W.J. Howard, M.A., S.T.B. (Toronto), Ph.D. (Leeds), *Professor*
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M.S. Tait, M.A., Ph.D. (Toronto), *Associate Professor*
A.C. Thomas, M.A., Ph.D. (Toronto), *Associate Professor*
E.P. Vicari, M.A., Ph.D. (Toronto), *Associate Professor*
M.C. Creelman, M.A., Ph.D. (Toronto), *Assistant Professor*
K. Theil, M.A., Ph.D. (Yale), *Assistant Professor*

Fine Art

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M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), *Assistant Professor*
M.C. Shaw, M.A. Ph.D. (Bryn Mawr College), *Assistant Professor*
D. Holman, B.F.A. (Kansas City Art Inst.), *Senior Tutor*
J. Hoogstraten, B.F.A. (Manitoba), *Tutor*

French

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J.A. Curtis, M.A. M.Phil. (Toronto), *Associate Professor*
L.E. Doucette, B.A. (London), Ph.D. (Brown), *Associate Professor*
C.B. Jennings, L.ès.L. (Paris), Ph.D. (Wayne State), *Associate Professor*
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F. Mugnier, M.A. (Lyon), *Tutor*

German

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H. Wittmann, M.A., (Göttingen), Ph.D. (Mass.), *Associate Professor*
H. Sherman, M.A., Ph.D. (Penn.), *Tutor*

History

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W.M. Dick, M.A. (Oregon), Ph.D. (Toronto), *Associate Professor*
M. Eksteins, B.A. (Toronto), B. Phil., D.Phil. (Oxford), *Associate Professor*
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Humanities

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Italian

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Division of Science

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Geology

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Mathematics

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I. Kupka, Ph.D. (Rio de Janeiro), *Associate Professor*
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E. Mendelsohn, B.Sc., M.Sc. (Manitoba), Ph.D. (McGill), *Associate Professor*
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J.B. Wilker, B.Sc. (Toronto), M.A. (British Columbia), Ph.D. (Toronto), *Associate Professor*
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T. Callahan, M.Sc., Ph.D. (Toronto), *Assistant Professor*
M.J. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D. (Toronto), *Assistant Professor*
D. Hall, B.Sc., (Toronto), *Senior Tutor*
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P. Kardos, Ph.D. (Waterloo), *Instructor*
E. Moore, M.A. (Memorial), *Instructor*
E. Peek, M.A., Ph.D. (Western Ontario), *Instructor*
D. Shum, Ph.D. (Carleton), *Demonstrator*

Physics

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M.B. Walker, B. Eng. (McGill), D. Phil. (Oxford), *Professor*
A.E. Jacobs, B.A.Sc. (Toronto), M.Sc. (Waterloo), Ph.D. (Illinois), *Associate Professor*
J.D. King, B.A. (Toronto), Ph.D. (Saskatchewan), *Associate Professor*
M.J.G. Lee, M.A., Ph.D. (Cantab.), *Associate Professor*
J.M. Perz, B.A.Sc., M.A.Sc. (Toronto), Ph.D. (Cantab.), *Associate Professor*
G. Woollatt, B.Sc. (Sir Geo. Williams), *Senior Tutor*

Psychology

G.B. Biederman, B.Sc. (CUNY), Ph.D. (NYU), *Professor*
J.E. Foley, B.A., Ph.D. (Syd.), *Professor*
B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), *Professor*
K.K. Dion, B.A. (Wellesley), Ph.D. (Minn.), *Associate Professor*
J.M. Kennedy, B.Sc., M.Sc. (Belf.), Ph.D. (Cornell), *Associate Professor*
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P. Lyons, B.A. (Toronto), *Tutor*
G.A.J. Heighington, B.A. (Toronto), *Tutor P-T*
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Division of Social Sciences

Anthropology

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

Commerce

H. Babiak, B.Sc. (Econ.) (London), M.B.A. (Western), C.A., *Associate Professor*
A. Stawinoga, B.A. (Toronto), M.B.A. (York, Canada), *Tutor*

Economics

V.W. Bladen, Q.C., M.A. (Oxon.), LL.D., F.R.S.C., *Professor Emeritus and Honorary Lecturer*
A. Berry, B.A. (Western), Ph.D. (Princeton), *Professor*
D.E. Moggridge, B.A. (Toronto), M.A., Ph.D. (Cambridge), *Professor*
M. Bucovetsky, B.A., M.A., Ph.D. (Toronto), *Associate Professor*
D.E. Campbell, B.A. (Queen's), Ph.D. (Princeton), *Associate Professor*
J. Cohen, B.A. (Columbia), M.A., Ph.D. (California), *Associate Professor*
M. Gunderson, B.A. (Queen's), M.A., Ph.D. (Wisconsin), *Associate Professor*
M. Krashinsky, S.B. (Econ.), (M.I.T.), M. Phil., Ph.D. (Yale), *Associate Professor*
J. Scadding, B. Comm. (British Columbia), Ph.D. (Chicago), *Associate Professor*
R.B. Westin, B.A. (Mich. State), Ph.D. (Minnesota), *Associate Professor*
S. K. Howson, B.A., M.Sc. (London), M.A., Ph.D. (Cambridge), *Assistant Professor*
I.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), *Assistant Professor*
R.S. Saunders, B.A. (Toronto), M.A., Ph.D. (Harvard), *Assistant Professor*
P.A. Simmie, B.A. (Manitoba), M.A. (Northwestern), *Lecturer*

Geography

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

Political Science

S.J. Colman, M.A. (Oxon.), *Professor*
R. Manzer, B.Ed. (New Brun.), M.A. (Oxon.), Ph.D. (Harvard), *Professor*
E.G. Andrew, B.A. (British Columbia), Ph.D. (London), *Associate Professor*
R.S. Blair, M.A. (Glasgow), M.A. (Toronto), *Associate Professor and Chairman of the Division of Social Sciences*
V. Falkenheim, B.A. (Princeton), M.A., Ph.D. (Columbia), *Associate Professor*
A. Rubinoff, A.B. (Allegheny), M.A., Ph.D. (Chicago), *Associate Professor*
K.J.R. Sandbrook, B.A. (Carleton), M.A. (Toronto), D. Phil. (Sussex), *Associate Professor*
S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), *Associate Professor*
T. Colton, B.A., M.A. (Toronto), Ph.D. (Harvard), *Assistant Professor*
M.W. Donnelly, B.Sc., M.A., Ph.D. (Columbia), *Assistant Professor*
J. Esbrey, B.Ed., B.A. (West. Australia), B.Sc. (London), M.A., Ph.D. (Toronto), *Assistant 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*
N. Howell, B.A. (Brandeis), Ph.D. (Harvard), *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 and Associate Chairman of Division*
M. Hammond, B.A. (California), M.A., Ph.D. (Toronto), *Assistant Professor*
J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), *Assistant Professor*
S. Ungar, B.A. (McGill), M.A., Ph.D. (York, Canada), *Assistant Professor*

ACADEMIC REGULATIONS AND DEGREE REQUIREMENTS

Definitions

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

(1) A Course

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

(2) To Pass a Course

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

Selection of Courses

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

- (a) The degree requirements and other regulations set out below must be satisfied.
- (b) All prerequisite and corequisite requirements must be met.
- (c) No student may enrol for credit for a course which is propaedeutic (elementary) to a course which the student has already passed.
- (d) Students may enrol for credit in no more than seven A-level courses.

(2) Each student may proceed towards his degree at a rate of his own choosing, except as follows.

- (a) The usual load for a full-time student in the Winter Session is five courses.
- (b) The usual maximum load for a student in the Summer Session is two courses.
- (c) A student who is on probation may enrol in no more than five courses in the Winter Session or one and one-half courses in the Summer Session.

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

- (a) To include courses from at least two Divisions (Humanities, Science, Social Sciences) among their first ten courses;
- (b) To include some advanced work based on earlier studies, by including at least two C-level courses within a twenty course degree programme; and
- (c) To consider taking, where appropriate, at least a half course of independent study or supervised reading in an area related to their other studies.

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

Major Programmes and Related Studies Programmes

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

(1) Major Programmes

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

- (a) A major programme may be completed only as part of a twenty course degree programme.
- (b) As completion of a twenty course degree programme is a requirement of each major programme, certification of completion of a major programme is not available to students who have completed only a fifteen course degree programme.

(2) **Related Studies Programmes**

The following related studies programmes are available: Canadian Studies, Development Studies, History of Ideas, Humanities, Myth and Religion, and Quaternary Studies. A related studies programme may be completed as part of either a fifteen course or a twenty course degree programme.

(3) **Registration in Programmes**

A student who wishes to take a major programme or a related studies programme should complete the following registration procedures.

- (a) Enrol in the programme with the Supervisor of Studies at the beginning of the second year of full-time study (or at the beginning of the session in which a part time student takes his fifth course).
- (b) Re-enrol at the beginning of each subsequent Winter Session.
- (c) In the session in which the student expects to graduate, inform the Supervisor of Studies and the Registrar that he wishes to have completion of the programme recorded on his transcript. (The student may effect notification by means of a section of the form on which the student requests conferral of his degree at the forthcoming convocation. This form is distributed to all students early in each session.)

(4) **Requirement for Completion of Programmes for Students Entering Scarborough College in the 1980 Summer Session and Thereafter**

- (a) All students entering Scarborough College in the 1980 Summer Session and thereafter will be required either:
 - (i) to complete a minor programme or a College programme, as a requirement of the fifteen course degree;
 - or
 - (ii) to complete, as a requirement of the twenty course degree:
 - a major programme, or
 - two minor programmes, or
 - a minor programme and a College programme
- (b) The following descriptions are intended to guide students, admitted to the College for the 1980 Summer Session and thereafter, in understanding the new requirements for completion of programmes.
 - (i) **A Major Programme.** Completion of a major programme will provide *depth and intensity of study within a limited area* - a discipline, a group of disciplines or a particular theme or area of study. At least nine specific courses will be prescribed in a major programme.
 - (ii) **A Minor Programme.** Completion of a minor programme will provide *concentration* in an area of study - a discipline, a group of disciplines or a particular theme or area of study. Six to eight courses will be prescribed.
 - (iii) **A College Programme.** A College programme will provide an organizing framework for a broad programme of study for students desiring wide-ranging but coherent study in a major area of the Curriculum.
- (c) Students will be permitted to propose for themselves individual programmes other than those shown in the *Scarborough College Calendar*. Such proposals should be made at the end of the term following completion of the student's fourth course. Such proposals are submitted through the Associate Dean to the College Programmes Committee. Permission to pursue individual programmes will normally be granted only to students with a cumulative grade point average of 3.7 or better.

Requirements for the Degree

(1) **The Fifteen Course Degree**

To qualify for a fifteen course degree, a student must:

- (a) pass at least fifteen courses;
- (b) among these, pass at least eight B-level and/or C-level courses;
- (c) obtain a grade of 'C-' or better in at least nine courses, including at least five B-level and/or C-level courses; and
- (d) for students admitted for the 1980 Summer Session and thereafter, complete a minor programme or a College programme;
- (e) for a Bachelor of Science degree, pass at least six B-level and/or C level courses in Science, as defined below.

(2) **The Twenty Course Degree**

To qualify for a twenty course degree, a student must:

- (a) pass at least twenty courses;
- (b) among these, pass at least thirteen B-level and/or C-level courses;
- (c) obtain a grade of 'C-' or better in at least thirteen courses, including at least nine B level and/or C-level courses; and
- (d) for students admitted for the 1980 Summer Session and thereafter, complete:
 - (i) a major programme, or
 - (ii) two minor programmes, or
 - (iii) a minor programme and a College programme;
- (e) for a Bachelor of Science Degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

(3) **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 and Psychology;
- (b) The following courses in Anthropology: ANTB11, ANTB12, ANTB14, ANTB15, ANTB22, ANTB25, ANTB26, ANTB27, ANTB29, ANTB33, ANTB36, ANTB39, ANTB40, ANTB43, ANTB44, ANTC08, ANTC12.
- (c) The following courses in Geography: GGRB02, GGRB03, GGRB07, GGRB10, GGRB11, GGRB15, GGRB18, GGRB19, GGRB21, GGRC05, GGRC06, GGRC08, GGRC15, GGRC19, GGRC23. In addition, the following courses may be used to fulfill the Bachelor of Science requirements for students researching or reading in appropriate scientific areas of geography: GGRB09, GGRB16, GGRC01, AND GGRC07.
- (d) The following joint courses: JBC, JMC, JMP, JPA, JPM courses and JLPB55 (as given in 1976-77 only). Psychology students should note that JPLB55 is *not* normally credited towards the science requirement for the B.Sc. degree.
- (e) NSCB02.

Standing in a Course

- (1) Students are assigned a grade in each course, as follows:

Grade	Grade Point Value	Percentage Equivalent	Definition
A+	4.3	90 — 100	Excellent
A	4.0	85 — 89	
A-	3.7	80 — 84	
B+	3.3	77 — 79	Good
B	3.0	73 — 76	
B-	2.7	70 — 72	
C+	2.3	67 — 69	Adequate
C	2.0	63 — 66	
C-	1.7	60 — 62	
D+	1.3	57 — 59	Marginal
D	1.0	53 — 56	
D-	0.7	50 — 52	
CR	none		credit in a credit/no-credit (pass—fail) course
E	0.3	35 — 49	Inadequate
F	0.0	0 — 34	Wholly Inadequate
NCR	0.0		no credit in a credit/no-credit (pass—fail) course

- (2) Grades of 'E', 'F' and NCR are failing grades, yielding no standing in a course and no degree credit.
- (3) The Sub-committee on Standing may, on petition, assign the following grades, which have no grade point value:
 AEG Aegrotat Standing - awarded on the basis of term work.
 SDF Standing Deferred - in cases where an extension of time to complete a course is granted on the basis of medical or similar evidence. The grade of SDF must be replaced by a regular grade assigned by the instructor before the expiry of a specific extension period.

Determining Standing in a Course: Grading Practices Policy

- (1) As early as possible in each course (and no later than the last date to add that course) the instructor will make available to the class the methods by which student performance will be evaluated and the relative weight of these methods.
- (2) After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least two-thirds of the students registered in the course.
- (3) The final grade in a course will normally be based on more than one evaluation element, i.e. on more than one examination, essay, or other similar piece of work. Normally, no one evaluation element (examination, essay, etc.) will be worth more than two-thirds of the final mark. 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 mark may be based on a thesis, a research essay or project, or a comprehensive examination.
- (4) Normally at least one-third of the final mark in a course will be based on supervised examinations.
 - (a) In A-level courses, at least one-third of the final mark will be based upon a formal examination(s) in the Christmas examination period in December and/or in the final examination period in April and May (or in comparable examination periods in the Summer Session).
 - (b) In B-level and C-level courses, at least one-third of the final mark will be based upon a formal examination(s) (as in (a) above) and/or upon a supervised term test(s).
 - (c) The following courses may be exempted from the requirement for examinations, upon request of the instructor and approval of the appropriate Divisional Chairman: advanced seminar courses; supervised reading or research courses; and performance courses such as musical performance or art studio courses.
 - (d) The relative value of each part of a written examination will be indicated on the examination paper.
 - (e) Instructors will make available to students commentary on assessed term work and will make available time for discussion of such term work.
 - (f) Grades, as an expression of the instructor's best judgement of each student's overall performance in a course, will not be determined by any system of quotas.
 - (g) For procedures for appeals concerning grades and grading practices, see below 'Procedures for Requesting Special Consideration, Petitions, and Appeals'.

Overall Standing

- (1) Both a sessional and a cumulative grade point average will be calculated for each student at the end of each session, and shown on the student's transcript.
 - (a) A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half course are added together and this total is divided by the number of full courses (or equivalent) taken.
 - (b) A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer).
 - (c) A cumulative grade point average is calculated on the basis of all courses taken.
- (2) A student's academic status shall be determined as follows:
 - (a) A student who maintains a cumulative grade point average of 1.50 or better shall be said to be in *good standing*.
 - (b) A student shall be placed on *probation* as follows:
 - (i) a student shall be placed on probation who has attempted at least four full courses (or equivalent) in the College and has a cumulative GPA of less than 1.50.

- (ii) a student returning from suspension (under (d) (iii) below or under any provision in previous College rules) shall be placed on probation again.
- (c) A student shall *clear probation* if he achieves a cumulative GPA of 1.50 or more.
- (d) A student shall be *liable for suspension or refusal of further registration* if he has attempted at least two full courses (or equivalent) since most recently having been placed on probation and has a cumulative GPA of less than 1.50.
 - (i) A probationary GPA shall be calculated for such students, being the GPA of all courses taken since the student was most recently placed on probation.
 - (ii) Such a student shall *continue on probation* if his probationary GPA is 2.00 or better.
 - (iii) Such a student shall be penalized if his probationary GPA is less than 2.0:
 - if the student has incurred no previous suspension, he shall be *suspended for one year*.
 - if the student has previously incurred a one year suspension, he shall be *suspended for three years*.
 - if the student has previously incurred a three year suspension he shall be *refused further registration* in the College.
- (3) The rules governing determination of academic status in (2) above were introduced as of the beginning of the 1978 Summer Session. No student who began his degree programme at Scarborough College before the 1978 Summer Session will be suspended or refused further registration through application of these (new) rules, if that penalty (or a more severe penalty) would not also have been applied under the (old) rules as published in the Appendix to this section of this *Calendar*.
 - (a) In such cases, the student's academic status will be determined by application of the old rules, except that student may not be granted application of the old rules to prevent penalty at the end of a given session if application of the old rules would have caused that same penalty (or a more severe penalty) in an earlier session.
 - (b) No petition will be granted to prevent a student from being placed on academic probation under the new rules on the grounds of disadvantage owing to transition to the new rules.
 - (c) Until the end of the 1979-80 Winter Session, the Office of the Registrar will automatically apply both the old and the new rules to students about to be suspended or refused further registration to determine which is more favourable. Beginning the 1980 Summer Session, students may request application of the old rules by means of a petition.

English Proficiency Requirement

- (1) Students admitted for the 1980 Summer Session and thereafter will be required to pass a basic test in English composition.
- (2) Students will have their first opportunity to write this test shortly after their first registration (Summer Session or Winter Session).
- (3) Any student who fails the test will be given the opportunity to be re-tested.
- (4) Any student who does not successfully pass the test within twelve months after his first registration will not be permitted further registration until such time as the test has been passed.

Courses on Other Campuses of the University of Toronto

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

- (1) **Full-time Students**
 - (a) **Definition.** For purposes of these regulations, a full-time student is defined as one enrolled in four or more courses in a Winter Session. In the Summer Session, a full-time student is one who completed four or more courses in the preceding Winter Session.
 - (b) **Equivalent Courses.** A student may not register in any course in the Winter Session where an equivalent course is offered on the Scarborough Campus in the same session. This restriction does not apply to the Summer Session. (A list of courses deemed to be the equivalent for purposes of this rule may be consulted at the Office of the Registrar, the Student Services Office and the Divisional Offices.)

(c) **Number of Courses**

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

(2) **Part-time Students**

- (a) As part-time students are often able to take courses only in the evening (and hence have a relatively limited range of courses available) and as enrolment pressure is somewhat less for evening courses, special arrangements are available for part-time students to take courses on other campuses.
 - (b) For purposes of these regulations, a part-time student is defined as one enrolled in three and one-half or fewer courses in a Winter Session. In the Summer Session, a part-time student is defined as one enrolled in three and one-half courses or fewer in the preceding Winter Session.
 - (c) The majority of a student's courses at all times must be Scarborough College courses. This refers to the majority of courses in which the student is currently registered plus those which he has already passed.
- (3) Students should be aware that there are a limited number of places in many courses on the St. George and Erindale campuses, and that in some Departments, Scarborough students may be given a lower priority than St. George campus/Erindale campus students in the assignment of places.
- (4) Students are not normally permitted to register for courses in Faculties other than Arts and Science for credit towards their Arts and Science degrees.

Courses at Other Universities

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

- (1) To take a course(s) at another University, students must request a 'letter of permission' from Scarborough College. The request should be directed to the Admissions/Liaison Counsellor. The student's request should include the course number, title, and description. (Students will find that such a letter of permission is very helpful, or indeed essential, to their obtaining admission as a non-degree student at another University in Ontario.)
- (2) Requests for letters of permission must be submitted well *in advance* of the date of the proposed course(s). In no case will credit be granted where a student has not requested and received permission in advance. (This regulation is required to ensure that students who attempt courses elsewhere are liable for penalty for failed courses as well as credit for those successfully completed.)
- (3) To receive credit for a course taken at another university on a letter of permission, students must normally earn at least one grade higher than the minimum passing grade (e.g. a grade of 'C-' or better at universities employing a grading scale similar to that at the University of Toronto).
- (4) Students who have received a letter of permission are expected to submit an official transcript from the host university promptly after completion of the course. (Students who did not register or who withdrew without penalty are expected to submit a confirming letter from the Registrar of the host university.) Failure to meet this requirement may result in a grade of 'F' being entered on the student's record at Scarborough College.
- (5) Students may request letters of permission to take a *maximum* of:
 - (a) three courses in a fifteen course degree programme, or
 - (b) four courses in a twenty course degree programme.
- (6) In addition, a student may *not* take, on a letter of permission, more than:
 - (a) two courses in any Winter or Summer Session; and more than
 - (b) one course within the last five courses to be completed for the degree.

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

Academic Transcripts

- (1) The academic transcript is the official statement of the academic record of each student.
- (2) **Contents.** The transcript records the following information:
 - (a) Information to identify the student: full name, university student number, social insurance number, place and date of birth;
 - (b) Admission information: basis of admission (e.g. Ontario Grade XIII, 85.0%); listing of courses completed at other universities for which the student was granted advanced standing 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 as at the end of the session;
 - (iv) the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, or refused further registration;
 - (v) Any academic honours awarded at the end of the session: scholarships, prizes or medals awarded by the College or by the University, and inclusion on the Scarborough College Honours List.
- (3) **Ordering Copies.** Students may obtain copies of their academic transcripts, subject to reasonable notice and upon payment of a copying fee: one dollar for the first copy and fifty cents for each additional copy ordered at the same time.
 - (a) Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.
 - (b) Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them and that it not pass through the student's hands.
 - (c) Copies of transcripts given or sent directly to students bear a replica signature of the Registrar, but do not bear the official College seal and are marked "unofficial"
 - (d) To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario, M1C1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto".
 - (e) There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

Degrees

- (1) A student may receive only one undergraduate Arts and Science degree from the University of Toronto. Scarborough College students may earn either a Bachelor of Arts or a Bachelor of Science degree.
- (2) A student may elect to receive his degree after having completed the requirements for the fifteen course degree or after having completed the requirements for the twenty course degree.
 - (a) A student who has elected to receive his degree after meeting the requirements for the fifteen course degree may choose to complete the requirements for the twenty course degree; completion of the twenty course degree requirements will be noted on the student's transcript, but a second degree will not be conferred.
 - (b) A student who elects to receive his fifteen course degree must so notify the Office of the Registrar well in advance of the appropriate University Convocation. Forms for this purpose will be mailed to all eligible students.
 - (c) A student who has completed the requirements for the twenty course degree will automatically have his name placed upon the graduation list to receive his degree at the next University Convocation unless he has already received his degree after having completed the fifteen course degree requirements (or unless the student specifically requests that his graduation be deferred). Nonetheless, to prevent any possible error, a student who elects to receive his twenty course degree should so

notify the Office of the Registrar well in advance of the appropriate Convocation. Forms for this purpose will be mailed to all eligible students.

- (d) When students are sent forms for the purpose of notifying the Office of the Registrar of their wish to graduate, a deadline date will be stated for the submission of the form. Where a student submits this form late, every effort will be made to include the student's name on the graduation list, but there is no guarantee that this will be possible. In addition, where a student submits this form after the last day of classes (and where arrangements can be made to include the student's name on the graduation list), a late fee of twenty-five dollars will be charged.
- (3) Degrees are conferred at University Convocations, held twice annually: the spring convocation in June and the fall convocation early in December. Students who have submitted the appropriate notification of their wish to graduate will be mailed complete information about the time of and arrangements for the Convocation.

Withdrawal

(1) Withdrawal from a Course

- (a) Students may withdraw from courses up until the following deadlines:

	1979 Summer Session	1979-80 Winter Session
Year long courses ('Y' and 'H')	20 July	15 February, 1980
First term courses ('F' and 'A')	8 June	2 November, 1979
Second term courses ('S' and 'B')	27 July	29 February, 1980

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

- (b) A student may effect withdrawal from a course by completing appropriately a "Registration Change Form" and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.
- (c) Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the "Schedule of Fees" published each session. The amount of the fees adjustment is determined by the date upon which the "Registration Change Form" or other written notification is received by the Office of the Registrar.
- (d) Students who withdraw from courses will be given or mailed a 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.

(2) Withdrawal from the College

- (a) A student who wishes to withdraw from the College effects withdrawal by:
 - (i) withdrawing from all of his courses, in accordance with the procedures and deadlines above; and
 - (ii) completing the procedures outlined in (b) below.

Where a student withdraws from the College after completing a course(s), (e.g. 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, his registration in the incomplete course will be shown on his academic transcript along with (presumably) a failing grade.
- (b) In addition to effecting withdrawal from courses, students must, before any refund is authorized, complete the following procedures and submit a "Withdrawal Clearance Form" to evidence their completion:
 - (i) Surrender any Bookstore charge card and arrange payment of any outstanding account;
 - (ii) Return any borrowed books to the Library, pay any outstanding Library Fines, and surrender their Library Card;
 - (iii) Return any equipment borrowed from the College Recreation Centre and surrender any Recreation Centre locker;
 - (iv) Surrender any College locker and return (perhaps for a partial refund) any College parking permit;
 - (v) Surrender any laboratory locker and equipment; and
 - (vi) Surrender their registration card.

Students who wish to withdraw from the College should speak with a counsellor in

the Student Services Office, who will advise the student of the academic consequences of the withdrawal (with respect to deadlines, etc.), advise the student with respect to his fees adjustment; advise appropriate students with respect to repayment of Ontario Student Assistance; and supply the student with the Withdrawal Clearance Form. (These procedures are somewhat simplified for part-time students.)

- (c) Where a student withdraws from the College for a session, and withdraws from all of his courses for that session, no record of registration and withdrawal is shown on the student's transcript. (This rule became effective as of the 1978 Summer Session.)

Procedures for Requesting Special Consideration, Petitions and Appeals

(1) Petitions for Exceptions to the Academic Regulations

- (a) Any student may request that an exception be made in his case to the application of any academic regulation or degree requirement. Such a request takes the form of a petition to the 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, i.e. the reason(s) why the student believes an exception to the rules is appropriate in his case; and
 - (iii) appending documents to evidence special circumstances: medical certificates, etc.
- (c) Students who wish to submit medical certificates in support of their petitions should 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 academic work on medical grounds.
- (d) Students are urged to seek the advice of a counsellor in the Student Services Office before entering a petition and in preparation of the petition.
- (e) Petitions are submitted to the Sub-committee on Standing through the Student Services Office.
- (f) Students are notified in writing of the Sub-committee's decision on their petition.
- (g) Students who wish to appeal any decision of the Sub-committee on Standing are entitled to enter an appeal to the Sub-committee on Academic Appeals - see (6) Academic Appeals, below.

(2) Requests for Special Consideration in a Course

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

(a) Term Work

- (i) **Where a student is unable to write a term examination**, or where his performance on that examination is adversely affected by illness or other extenuating circumstances, the student should speak with the course instructor as soon as possible to request special consideration.
- (ii) **Where a student wishes to request an extension of an instructor's deadline** to submit an essay or other term assignment, the student should speak with the course instructor as soon as possible.
- (iii) **Where a student wishes to request an extension of time to submit term work past the end of term** (i.e. past the "last day for submission of term work" shown in the "Academic Calendar" section of this *Calendar*), a formal petition to the Sub-committee on Standing must be submitted. See (1) above for information about the petition procedure. The petition should be submitted as soon as possible and no later than the last day of the relevant examination period.
- (iv) **Where a student wishes to appeal the decision of his instructor** with respect to a request for special consideration, the student should speak with or write to the Chairman of the Division offering the course.

- (b) **Final Examinations** Where a student is unable to write a formal final examination (scheduled in one of the final examination periods), or where the student's performance on a final examination is adversely affected, a student may submit a petition to the Sub-committee on Standing - see (1) above. The petition should be submitted as soon as possible and no later than the last day of the relevant examination period.

(3) **Requests for Checking of Marks in a Course**

Where a student believes that an error has been made in the calculation of his final grade in a course, or in the calculation of his mark on any examination or term assignment, he may request a re-check of the calculations according to the following procedures.

- (a) **Term Work.** Where a student believes that his mark on a term examination or term assignment has been calculated incorrectly, the student should speak with the course instructor as soon as possible to request that the mark be checked.
- (b) **Final Examinations.** Where a student believes that an error may have occurred in the calculation of his final examination mark, the student should do the following.
 - (i) After the issue of his "Statement of Results" but within six months of the relevant examination period, a student may request from the Office of the Registrar a photocopy of his final examination. A five dollar fee is required at the time of the request.
 - (ii) If the student believes that an error has been made in the calculation of his examination mark, the student may submit, through the Office of the Registrar, a request for a recheck of the calculation. This request must be entered within six months of the relevant examination period.
- (c) **Final Grade.** Where a student believes that an error has occurred in the calculation of his final grade, the student may do the following. After the issue of his "Statement of Results" but within six months of the relevant examination period, the student may submit, through the Office of the Registrar, a request for a recheck of the calculation of the grade. A five dollar fee is required at the time of the request. If an error is discovered and the mark is changed, the fee will be refunded.
- (d) **Note Concerning Failed Courses.** Instructors are required to re-read the final examination and to recheck the calculation of term and final marks before submitting a failing grade ('E' or 'F') for any student.

(4) **Petition of Marks in a Course**

Where a student believes that his work has been graded unfairly, he may petition his mark or grade as follows.

- (a) **Term Work**
 - (i) Where a student wishes to petition his grade on a term examination, an essay or another term assignment, the student should speak with the course instructor as soon as possible, and certainly before the end of term.
 - (ii) Where a student wishes to appeal the decision of an instructor with respect to the grading of term work, the student should speak with or write to the Chairman of the Division offering the course.
 - (iii) Where a student wishes to appeal his grade on term work returned to students only after the end of term (i.e. after the instructor has submitted his grades for the course), a formal petition to the Sub-committee on Standing may be entered. See (1) above for information about the petition procedure.
- (b) **Final Examinations**

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

 - (i) After the issue of his "Statement of Results" but within six months of the relevant examination period, a student may request from the Office of the Registrar a photocopy of his final examination. A five dollar fee is required at the time of the request.
 - (ii) After the student has seen the photocopy of his final examination but within six months of the relevant examination period, the student may submit a petition to the Sub-committee on Standing to request re-reading of his final examination. The Sub-committee will authorize a re-reading only where a student:
 - has articulated clear grounds for reconsideration of some part(s) of the examination, which grounds *address the substance of the answer* in relation to the mark given it, or otherwise identify the nature of the alleged misvaluation;
 - has demonstrated that the alleged misvaluation is of a *substantial nature*: i.e. 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.

Note:

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

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

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

The rules governing the determination of grades in a course (grading practices) are shown above. Where a student believes that he has been disadvantaged by violations of these grading practices, he may proceed as follows.

- (a) **Grading Practices During the Term**
 - (i) Where a student believes that an instructor has violated any rule of the College's grading practices during the term, he is expected to discuss this complaint with the instructor at once.
 - (ii) If this discussion does not yield a resolution to the problem that is satisfactory, the student may appeal the decision of the instructor with the Chairman of the Division offering the course.
 - (iii) If the appeal does not yield a resolution to the problem that is satisfactory, the student may appeal the decision of the Division to the Principal of the College.
- (b) **Grading Practices After the End of Term**
 - (i) Where a student believes that an instructor has violated any rule of the College's grading practices, and this alleged violation comes to light only after the end of term, the student may submit a petition to the Sub-committee on Standing.
 - (ii) If the petition does not yield a resolution to the problem that is satisfactory, the student may appeal the decision on the petition (in the usual manner) by means of an appeal to the College Sub-committee on Academic Appeals. (See (6) below.)

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

- (a) A student may appeal any decision of the Sub-committee on Standing on a petition, or (except as noted above) any decision by a Division of the College concerning grading, by means of an appeal to the Scarborough College Sub-committee on Academic Appeals.
- (b) An Appeal to the Sub-committee on Academic Appeals must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Standing or by the Division. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Sub-committee on Academic Appeals - the Associate Dean of the College.
- (c) Students are entitled, if they wish, to a hearing before the Sub-committee on Appeals, and are entitled to representation by legal or other counsel.
- (d) Full information may be obtained from the Office of the Associate Dean, Room S-414A, telephone 284-3124.

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

- (a) A student may appeal any decision of the Scarborough College Sub-committee on Academic Appeals to the University of Toronto Academic Appeals Board.
- (b) Such an appeal must, except in unusual circumstances, be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student by the Sub-committee on Appeals. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Appeals Board.
- (c) Students are entitled, if they wish, to a hearing before the Appeals Board and are entitled to representation by counsel.
- (d) Full information may be obtained from the Secretary to the Appeals Board, Office of the Governing Council Secretariat, Room 106, Simcoe Hall, St. George Campus, telephone 978-8794.

(8) **University Ombudsman**

As part of the University's commitment to ensuring that, in spite of its size and complexity, the rights of its individual members are protected, a University Ombudsman has been appointed on an experimental basis to investigate grievances or complaints against the University, or anyone in the University exercising authority, from any member of the

University - student, faculty or administrative staff. He assists in any way he can in resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, he has access to all relevant files and information, and to all appropriate University officials.

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

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

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

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

Appendix "The Old Rules on Assessment of Academic Status"

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

(1) Academic Probation and Suspension for One Year

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

Put on Probation if Fewer than

Number of courses attempted	(i) Credits at a grade of C- or higher	(ii) Credits at a grade of D- or higher	Suspended for one (1) year if 'E' or 'F' in more than
1/2 - 1 1/2	-	-	-
2 - 2 1/2	-	-	-
3 - 3 1/2	-	-	-
4	2	2 1/2	2
4 1/2 - 5	2 1/2	3 1/2	2
5 1/2 - 6	3	4 1/2	2
6 1/2 - 7	3 1/2	5 1/2	2
7 1/2 - 8	4	6	2 1/2
8 1/2 - 9	4 1/2	7	2 1/2
9 1/2 - 10	5	8	2 1/2
10 1/2 - 11	5 1/2	9	2 1/2
11 1/2 - 12	6	9 1/2	3
12 1/2 - 13	6 1/2	10 1/2	3
13 1/2 - 14	7	11 1/2	3
14 1/2 - 15	7 1/2	12 1/2	3
15 1/2 - 16	8	13	3 1/2
16 1/2 - 17	8 1/2	14	3 1/2
17 1/2 - 18	9	15	3 1/2
18 1/2 - 19	9	16	3 1/2
19 1/2 - 20	10	17	3 1/2
20 1/2 - 21	11	18	3 1/2
21 1/2 - 22	12	19	3 1/2
22 1/2 - 23	13	20	3 1/2
23 1/2 - 24	-	-	-

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

Exceptions to this rule are as follows:

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

(2) Suspension for Three Years

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

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

A student who wishes to return to studies in the College after having incurred a three-year suspension may, after the period of suspension has expired, enrol in any one session in two full courses or equivalent which he has not previously attempted. If the student obtains an average grade of 'B' in the two full courses or equivalent, and not less than 'C-' in either, he will retain credit for these courses and for all courses in which he was previously successful, and he may re-enrol to complete the remaining courses required for the degree on the condition that he records no further failures.

(3) Refusal of Further Registration

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

(4) Refusal of Further Registration to Special Students

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

GENERAL INFORMATION

Admission

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

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

Bases of Admission

(1) Ontario Year V

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

- completion of secondary school studies, including a full programme of academic work at the year 5 level;
- submission of a complete academic report for the last three years of secondary school.

(2) **Other Canadian Provinces**

Alberta, British Columbia, Manitoba,
New Brunswick, Nova Scotia, Saskatchewan - Grade 12
Newfoundland - 1st year Memorial University
Ontario - Grade 13: before 1972 - 7 credits
1972 - present - 6 credits
Prince Edward Island - 1st year University of Prince Edward Island
Quebec - C.E.G.E.P. 1 or equivalent

(3) **Other Countries**

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

(4) **Non - Matriculants**

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

- (a) is 21 years of age;
- (b) has been resident in Ontario for at least one year as a Canadian citizen or landed immigrant; and
- (c) achieves high standing in one, special, pre-university course. Pre-university courses are offered by Woodsworth College of the University of Toronto in English, History and (on the St. George Campus) Canadian Studies, Chemistry and Mathematics. Completion of one of these courses generally requires attendance at class for two evenings per week for a winter or summer session. Successful completion of a pre-university course does not ensure admission in all cases. Hence, students must consult with the Office of Admissions *before* enrolling in one of these courses to ensure that completion of a course will indeed make the applicant eligible for admission consideration.

(5) **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.

English Facility Requirement

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

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

The University of Toronto is a sponsoring agency for the University of Michigan Test of English Language Proficiency, and information about that test will be mailed to any applicant required to take it.

Application Procedures

- (1) **Current Ontario Year V Students.** Students currently enrolled in an Ontario secondary school should submit applications through their school guidance or student services office.
- (2) **All Applicants Other than Current Ontario Grade XIII Students.**
All candidates, other than current Ontario Grade XIII students, should write to the Office of Admissions, giving full details of their educational background and standing, and requesting application forms.

Application Dates

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

- Admission to the Summer Evening Session (courses beginning in May) April 1
- Admission to the Summer Day Session (courses beginning in July) May 15
- Admission to the Winter Session June 30

Applications will also be accepted after the above dates, where possible.

Scholarships and Other Awards

Admission Scholarships

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

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

In-Course Awards

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

University of Toronto In-Course Bursaries. Applicants for bursaries must demonstrate exceptional financial need. Normally, applicants should have completed at least one year's work at the University of Toronto with at least Grade 'B' standing in their most recent year's work. In cases of extreme need, however, students with Grade 'C' standing and first year students may apply. Applications may be obtained from the Student Services Office in the fall. Deadline: November 15.

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

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

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

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.

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

Graduation Prizes

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

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

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

Scarborough College Honours List

Scarborough College publishes annually an honours list, including the names of all students who have achieved a grade point average of 3.7 or better in their most recent year of full-time study (or equivalent amount of part-time study) and including perhaps the names of other students selected on the basis of academic excellence. Inclusion of a student's name on the annual honours list is reported on the student's transcript, and is recognized by the College in other appropriate ways. All students with grade point averages of 3.7 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. Complete information may be obtained from the Student Services Office.

Financial Assistance

Ontario Student Assistance Programmes. Canadian citizens or landed immigrants 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.

Special Bursaries for Visa Students. The University of Toronto awards a number of bursaries to students from abroad, in Canada on student visas, who are required to pay higher fees. Information and applications are available in the fall from the Student Services Office. Deadline: November 1.

Study Elsewhere Programme

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

(1) Programmes of Study

There are basically two types of Study Elsewhere:

- (a) Students may, after having obtained official approval from Scarborough College, (see "Application" below), register at a host University and follow its courses for credit; these credits may then be approved by the Sub-committee on Standing and translated into Scarborough College credits (the "Credit Transfer" Programme);
- (b) Students may elect to do Scarborough College supervised reading or independent studies courses off-campus in a location which will enhance their education in these courses (the "Supervised Study Elsewhere" Programme).
A mixed programme of study is of course possible, with some courses followed at a host university for credit transfer, and some Scarborough College supervised study courses taken while the student is on the host campus.

(2) Fees and Aid

- (a) Students in the Credit Transfer Programme pay the appropriate fees at the host university and a \$100 fee to the University of Toronto in order to maintain registration in Scarborough College.
- (b) Students in the Supervised Study Elsewhere Programme pay the regular Scarborough College fees per course.
- (c) Students in a mixed programme pay \$20 for each full course (or equivalent) for which they register for credit transfer plus the regular course fee for each Scarborough College course in which they register.
- (d) Students who would have been eligible for Ontario Student Assistance for study at Scarborough College have been eligible for similar assistance in the Study Elsewhere Programme. Consult the Student Services Office for full information.

(3) Application

The interested student is invited to consult with the Associate Chairman, Division of Humanities, who coordinates the Programme. In consultation with the student, he will arrange for a supervisor of studies from among the faculty.

The student should prepare his proposed course of study with his supervisor, and submit it to the Associate Chairman three months before the beginning of the proposed term of study elsewhere.

Detailed guidance is available from the Associate Chairman to help students in constructing their programmes and in seeking approval for credits obtained elsewhere.

(4) Regulations

- (a) Any student of the College who is not on probation or returning from suspension, and who has completed four full courses, may apply for admission to the Study Elsewhere Programme.
- (b) Applications require the approval of the Sub-Committee on Standing.
- (c) Since registration in Scarborough College is maintained, the general regulations of the College pertain to students in the Study Elsewhere Programme, (except as in (e) below).
- (d) No more than six full courses in a degree programme may be taken in the Study Elsewhere Programme.
- (e) Students participating in the Study Elsewhere Programme should complete their approved course of study by the beginning of the next Winter Session.

Discipline: Academic Matters

Code of Behaviour on Academic Matters

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

Academic Offences

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

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

Sanctions

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

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

Reporting

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

Discipline: Non-Academic Matters

Scarborough College Council has disciplinary jurisdiction over the conduct of all students registered in the College on all matters of local or internal concern to the College. Jurisdiction over the conduct of students while in residence rests with the body administering the residence. Where Scarborough College Council (or the Officer or Committee designated or appointed for the purpose by Council) has found that a Scarborough College student 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 and the Scarborough College Council 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-Internal Affairs,
Room 112, Simcoe Hall, University of Toronto
(Telephone: 978-2196)

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:

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

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

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

Exclusions, Prerequisites and Corequisites.

- (1) *Exclusions.* If a student already has standing in a course which is indicated as an exclusion, the student may not enrol in the course being described.
- (2) *Prerequisites.* A student must have standing in the prerequisite course before he may enrol in the course being described. Prerequisite requirements may, however, be waived by the instructor in the course being described if he feels that there are adequate grounds for so doing. If a student registers in a course without meeting its prerequisite requirements and without obtaining a specific waiver of the prerequisite, the student may be withdrawn from the course at any time during the term.
- (3) *Corequisites.* A student must either already have standing in a corequisite course, or he must enrol in the corequisite course at the same time as he takes the course being described. Instructors are permitted to waive corequisite requirements if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting its corequisite requirements, or if a student withdraws from the corequisite course without obtaining specific waiver of the corequisite requirement, the student may be withdrawn from the course at any time during the term.
- (4) *Exclusions, Prerequisites and Corequisites in Parentheses.* Some exclusions and some 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 research courses.
- (2) *Independent Study Courses.* Students in independent study courses usually work under the direction of a faculty member with whom they meet periodically. A topic for independent study is 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.

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. (However, the Humanities Division present several courses in Linguistics).

Students wishing to major in Anthropology are advised to consult with the supervisor of studies, Professor F.D. Burton (Room H424). ANTA01Y is normally required of all students entering the programme. A document listing some possible programmes of study in Anthropology is available from the office of the Division of Social Science (H-411).

Major Programme in Anthropology

Supervisor of Studies: F.D. Burton

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

- * A first year student with background in Anthropology, or declared major interests and relevant background training may petition the Supervisor of Studies for waiver of ANTA01Y prior to registration in the programme; if permission is granted, the student will be required to take all three of ANTB15Y, ANTB20Y, and ANTB26Y during the four year programme.

ANTA01Y is normally required as a prerequisite to other courses in Anthropology for all majors.

ANTB15Y, ANTB20Y, and ANTB26Y - Two of these three courses must be taken within the four year programme.

One full-course equivalent in supervised reading and/or research courses, from ANTC03, ANTC04, ANTC13, ANTC14.

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

Anthropology major programmes can be planned to meet the diverse needs of students wishing emphasis in a chosen sub-field of Anthropology.

ANTA01Y Introduction to Anthropology / S. Hilton

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

The teaching method consists of lectures and tutorials.

Session: Winter Day, Winter Evening

ANTA03Y Peoples of the World / T. McFeat (and Staff)

This course is designed to provide intimate views of the lives of peoples in communities in various parts of the world. Emphasis is given to the diversity of cultures rather than their common features.

This course will cover the Human features of Primate Groups, the modern features of ancient groups, and the ancient features of contemporary groups. *Communities:* Their survival and change, ideals and evils, gossip and witchcraft. *Mobility:* The organizing of crews for fishing, raiding and exploration; leaders and followers. *Stability:* Community patterns, houses and environments, temples. *Expressiveness:* Variations in humour, origin myths, oral and mass media; drama. *Exchanges:* Gifts, money and credit, reputation, cursing, secrecy, partners & friends. *Process:* Infancy, childhood, being adult and aged; universal relations between men and women. *Power:* Chiefs, kings, priests, shamans, sorcerers. *Reaching:* Disease and curing, theories of the universe, deities, saviours and redeemers: revitalization movements. There will be lectures and discussions; slides, motion pictures and demonstrations. Papers or research projects and a final examination in spring will be required.

Exclusions: ANTA01Y

Session: Winter Day

ANTB01F Cultural Ecology

A discussion of the relationships of human populations differing in culture, social organization and technology with their environment in the following sub-areas: systems of food production, patterns of disease, and ecological aspects of warfare and demography. Cases will be drawn largely from non-industrial societies.

Cultural ecology is one way of examining and studying a socio-cultural system. The course will consider both the utility of such an approach, and the quality and relevance of the data it generates. There will be two one-hour lectures and one one-hour tutorial per week. Some combination of essays and/or examinations will be required.

Prerequisite: ANTA01

Session: Winter Day

ANTB02S Anthropological Study of Religion / C. Hopewell

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. Some combination of essays and/or examinations.

Prerequisite: ANTA01

Session: Winter Day

ANTB03F The Americas: An Anthropological Perspective / R.W. Shirley

The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact.

Special emphasis will be placed on social dynamics and focus on Latin America.

Session: Winter Day

ANTB05Y Social Anthropological Study of Africa / C. Hopen

After a review of certain cardinal, social and cultural background features of the continent, a more intensive study of comparative religion will be made. Hopefully, guest lecturers will help round out the perspective.

This will be a study of the major institutions of African society, their ecology, economic, religious and domestic organizations. Seminar: one two-hour session per week. Some combination of essays and/or examinations.

Prerequisite: ANTA01

Session: Winter Day

ANTB07S Comparative Slavery / R.W. Shirley

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

ANTB11F Pleistocene People: The Archaeology of Hunter-Gatherers

A review of the chronological framework for cultural change, and of the evidence which documents 99% of cultural development and adaptation during the last two to three million years.

Prerequisite: ANTA01, ANTB26 is recommended.

Session: Winter Day

ANTB12S Prehistory of the Holocene / H.B. Schroeder

Examination of the two major prehistoric cultural events of the Holocene out of which emerged modern human societies: the agricultural and urban transformations. The course content emphasizes the ecological-adaptive factors and the archaeological evidence bearing on the beginnings of permanent human settlements, the domestication of plants and animals, and the development of complex social and technological systems.

Prerequisite: ANTA01, ANTB26 is recommended.

Session: Winter Day

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. One mid-term exam, one paper, one final exam.

Prerequisites: ANTA01, ANTB15 is recommended

Session: Summer Evening

ANTB15Y Introduction to Physical Anthropology / F.D. Burton

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

Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behaviour of non-human primates, taxonomy and classification, paleontological principles and human origins.

Prerequisites: ANTA01 or ANTB14 or Permission of Instructor

Session: Winter Day

ANTB16S The Cultures of Modern Canada / S. Hilton

A consideration of contemporary cultures in Canada and how these have developed during the last forty years. Indigenous groups (Indian-Metis-Eskimo) and formerly-immigrant groups, both rural and urban, will be treated in the same general framework. The course will attempt to place local and regional ethnic groups and subcultures in a national political and economic context.

The course includes three major sections: The first will consider the history of Canadian settlement since the early 1900's; the second will relate local cultural groups in contemporary social settings; and the third will show the interrelationships of these groups to the wider contemporary Canadian context. One two-hour lecture session and one one-hour tutorial per week.

Prerequisite: ANTA01Y or Permission of the Instructor.

Session: Winter Day

ANTB20Y Introduction to Social Organization

"Kinship is to Anthropology what logic is to Philosophy or the nude is to Art; it is the basic discipline of the subject." (Fox). This course considers variations in human social structure, focusing mainly on kinship organized societies.

The course compares a range of societies, moving in scale from the bands of hunter-gatherers, through tribes and chiefdoms, to peasant and urban societies, in order to investigate the principles of human social life and the extent of human social diversity. Major attention is placed on how kinship systems in small scale societies are used by human groups to organize their living patterns, their demographic space, their economic livelihood, and their internal and external political relationships. The course is organized around case studies, but the theoretical implications of particular models of social structure are also considered. One two-hour lecture and one one-hour discussion session per week. Evaluation will be based on a combination of essays and examinations.

Prerequisite: ANTA01

Session: Winter Day

ANTB21Y North American Background to Canadian Native Peoples / S. Hilton and T. McFeat

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.

Classes and discussion. Essays and Examination.

Prerequisite: ANTA01

Session: Winter Day

ANTB22Y Primate Behaviour / F.D. Burton

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

ANTB23Y Comparative Mythology

This interdisciplinary course deals with 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 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. Evaluation will be based on a combination of essays and examinations.

Session: Winter Day

ANTB24Y The Organization of Group Cultures / T. McFeat

This course explores the ways in which groups and networks are woven together into community life to create local cultures in villages, towns and cities.

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

Corequisites: ANTA01Y, or sociology or geography or psychology or permission of instructor.

Session: Winter Evening

ANTB26Y Introduction to Prehistoric Archaeology / H.B. Schroeder

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

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

Prerequisite: ANTA01

Session: Winter Evening

ANTB29Y Analysis of Archaeological Material / M. Latta

This course involves 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.

Prerequisites: ANTA01, ANTB26 or ANTB27.

Session: Winter Day

ANTB30Y Language and Culture

This course provides a background in Anthropological linguistics, emphasizing a basic knowledge of linguistic systems, and the relationships of these systems to other cultural systems.

The course concerns the relationship of linguistic structure and theory to other cultural systems, emphasizing data from non-Indo-European languages. Topics covered include language as the mediator and interpreter of culture, and the relevance of linguistics data to the study of history and prehistory. One two-hour lecture session per week. Some combination of essays and/or examinations.

Session: Winter Day

ANTB31Y Urban Anthropology

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

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

Session: Winter Day

ANTB37S Prehistory of Mexico and Mesoamerica / M. Latta

In general, this course aims at an understanding of the development and achievements of the civilizations of Mexico. We will consider the two main problems: the beginnings of agriculture and its effects on culture, and the forces which contribute to the emergence or disappearance of civilization.

Prerequisite: ANTA01

Session: Winter Day

ANTB38F Prehistory of North America North of Mexico / M. Latta

This course complements 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.

Prerequisite: ANTA01

Session: Winter Day

ANTB40Y Anthropological Demography / L. Sawchuk

This course will examine the biological, demographic, ecological and social-cultural determinants of human and non-human population structure and the interrelationships between these determinants.

Lecture topics include population and societal strategies of survival and adaptation, population structure of small-scale and urban societies, and paleodemography and paleopathology. Five laboratory exercises and one exam.

Prerequisite: ANTA01; ANTB15 is recommended

Session: Winter Day

ANTB44Y Physiological Anthropology / L. Sawchuk

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

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

Prerequisites: ANTA01 or BIOA03

Session: Winter Day

ANTB47F Human Osteology

The course emphasizes structure and function in the human skeleton. The histology, and the ontogenetic as well as the phylogenetic development of skeletal elements is treated holistically. Palaeopathology and forensic aspects are also considered.

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

Prerequisites: ANTA01 or BIOA03 ; ANTB14 or ANTB15

Session: Winter Day

ANTB48S Human Odontology

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

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

Prerequisites: ANTA01 or BIOA03 ; ANTB14 or ANTB15

Session: Winter Day

ANTB49S Law and Society / R.W. Shirley

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

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

Prerequisite: ANTA01 or Instructors Permission.

Session: Winter Day

ANTB50F Fact and Fiction in Archaeology

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

Prerequisite: ANTA01

Session: Winter Day

ANTB51Y Medical Anthropology / L. Sawchuk

The examination of health and disease in sociocultural and ecological perspective. Emphasis is placed on variability of populations in terms of both disease susceptibility and cultural means of definition and treatment.

The course is designed to introduce students to the basic concepts and principles of medical anthropology, focusing on the interrelationship of biological and cultural variables and processes. Principles of epidemiology, patterns of inheritance, evolutionary processes, the cultural specificity of notions of health and illness, causation and cure, and the social and symbolic organization of therapy are considered. Specific topics include: infectious disease in historical perspective, ethnic variation of constitutional disease (focusing on World Jewry), curing roles, aims and techniques in traditional African and Latin American societies (shamanism, herbalism, sorcery, etc.), health care delivery and innovation in the Third World, mental illness and the social control of deviance.

Prerequisite: ANTA01Y

Session: Winter Day

ANTB52Y Field Methods in Historical Archaeology / M. Latta

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

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

Prerequisite: ANTA01Y, ANTB26Y; HISB04Y recommended as well.

Session: Summer Day

ANTC03F and C04S Directed Reading in Anthropology / Members of Faculty

A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individuals tutorials, as arranged. Evaluation will be based on some combination of essays and/or oral presentations and/or examinations, as arranged.

Prerequisite: Permission of instructor.

Session: Winter Day

ANTC09Y The Anthropology of Humour / C. Hopen

It is postulated that among other things, the cross-cultural study of humour should lead to a deeper understanding of core values and personality in specific societies. Limited enrolment: 15.

The course aims at investigating a general theory of humour, a classification of humour, and the search for universals. 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. Evaluation will be based on some combination of essays and/or examinations.

Prerequisites: Any two courses ANTB02; ANTB20; ANTB22; ANTB24

Session: Winter Day

ANTC11Y The Anthropology of Women / S. Hilton and M. Latta

In the aftermath of International Women's Year, many scientists are re-examining traditional views of the origins and development of human culture. This course will consider the biological and cultural factors which have influenced the roles of women in traditional and contemporary societies. Students will then have the opportunity to examine aspects of this subject in detail and present their findings to the group in an informal seminar.

Prerequisite: One B-level course

Session: Winter Day

ANTC12F Research on the Social Behaviour of Non-Human Primates / F.D. Burton

The purpose of this course is to observe, record and process data of the social behaviour of non-human primates. This field experience concentrates on methods of gathering data under naturalistic conditions. The work is done either on captive animals in semi-naturalistic enclosures, or on free ranging animals abroad. An intensive course, the student is asked to commit a minimum of five hours per day when the course is held at the zoo, and dawn to dusk on free-ranging animals abroad. Limited enrolment by permission of the instructor (when abroad) or 30 (at zoo, June 1-30, 10:00 a.m.-4:00 p.m. 5 days per week). **

Evaluation will be based on 1. field exercises, 2. data, 3. group presentation, 4. observation of student in field.

Prerequisite: ANTB22 or permission of instructor

Session: Winter Day

** First meeting June 1, in Room H-424 at 10:00 a.m.

ANTC13F and C14S Advanced Research in Anthropology / Members of Faculty

Directed critical examination of specific problems in Anthropology, based on library and/or field research.

Individual tutorials, as arranged.

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

Prerequisite: Permission of Instructor.

Session: Winter Day

ANTC15F Frontiers of Anthropology / R.W. Shirley

This course is meant to be an advanced seminar on theoretical problems in anthropology.

Prerequisite: ANTA01 and one B-level course.

Session: Winter Day

ANTC36Y New Perspective on Human Origins

Important theories and models of hominisation will be examined.

Consideration will be given to theories that emphasize the structural aspects of man's emergence. Demographic and ecological models will also be reviewed. However, it is expected that investigative emphasis will be placed on bio-behavioural models of hominid evolution. Some of the conceptual parameters that may be dealt with are: hominid neural evolution; possible hominid behavioural propensities, such as, aggression, territoriality, and altruism; palaeoecology and the development of diagnostic hominid masticatory and locomotor complexes and; the relative roles of the various evolutionary forces of genetic drift, gene flow, non-random mating and natural selection. The final section of the course will synthesize the above information in an effort to understand hominisation in a broad perspective. The lectures in the introductory weeks will be followed by class discussion and student seminars. Evaluation will be based on a major research project to be presented orally and handed in at the end of term in the form of a written term paper.

Prerequisites: ANTB14Y; ANTB15, (ANTB09 is recommended but not required)

Session: Winter Day

COURSES NOT OFFERED IN 1979-80**ANTB10S Cultural Ecology: A Diachronic Perspective**

Prerequisite: ANTA01

ANTB13F Background of Modern Archaeology

Prerequisite: ANTB26Y, or permission of instructor

ANTB17S Complex Societies

Prerequisite: ANTA01

ANTB18Y Cultural Evolution

Prerequisite: ANTA01, or permission of instructor

ANTB19S Economic Anthropology

Exclusion: (ANTA02)

Prerequisite: ANTA01

ANTB27Y Archeological Methods and Materials

Prerequisite: ANTB26Y

Corequisite: ANTB26Y

ANTB28F The Prehistoric Archaeology of Canada

Prerequisite: ANTA01Y

ANTB32S Introduction to Political Anthropology

Prerequisite: ANTA01

ANTB39Y Human Diversity

Prerequisite: ANTA01; ANTB15 is recommended

ANTB41S Pre-Industrial Technology

Prerequisite: ANTA01

ANTB43S Quantitative Methods in Anthropology

Exclusions: (ECOA02), ECOB11; PSYB07

Prerequisites: ANTA01; ANTB15 and ANTB26 are recommended

ANTB46F Enculturation and Childhood

Prerequisite: ANTA01, or permission of instructor

ANTC02F Systems of Thought

Prerequisite: At least B-level course in social Anthropology

ASTRONOMY

Discipline Representative: P.P. Kronberg

Astronomy is at the same time one of the oldest and most dynamic areas of Science. It is basically man's attempt to gain an understanding of his place in the sidereal universe, 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.

ASTA02Y Astronomy: Exploring the Universe / C.C. Dyer.

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 to the advancement of knowledge of the universe and to contemplate such questions as life on other worlds. Instruction in the use of the telescopes, cameras and darkroom equipment is provided for all interested students, whether their ultimate purpose is carrying out a term project or merely extracurricular star-gazing.

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

$$F = (E + T) \cdot \{1 + \frac{1}{10}(E - T)\}$$

Exclusion: ASTA03

Prerequisites: Grade 13 Physics, Grade 13 Functions and Relations

Session: Winter Day

ASTA03Y A Survey of Astronomy, its Recent Development and Significance / M.P. Kronberg.

Astronomy A03 is a basic science course for non - science students, which surveys all aspects of the extra-terrestrial universe. Theories of the evolution of the solar system, stars, and the universe are presented. Recent evidence for the possibility of life on other worlds is reviewed and explained; the nature of stars and black holes, galaxies, clusters of galaxies and quasars is discussed and consideration is given to theories of cosmology and of the origin of the universe.

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

Astronomy A03Y will contain a description of all aspects of the extra-terrestrial universe and the methods used, past and present, to explore it. The first portion of the course will emphasize the historical context in which our knowledge of the universe has developed, and the latter part of the course deals with present and future investigations of the universe, some of its possible economic and even "philosophical" implications. At the end of the course time will be devoted to exploring the various interrelations between current technology and both space and ground based experiments. The course structure is two lectures and one tutorial per week. An essay will be required. Evaluation is 50% for exam and term tests and 50% for essay and tutorial exercises.

Session: Winter Day

ASTB01Y Topics in Astrophysics; Origin and Evolution / M.G. Martin

Theories and observational evidence related to the origin and subsequent evolution of astronomical objects and to the conditions for the development of intelligent life in the universe. The course will consist of five topics - 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 and the significance of the interstellar medium.

The course is devoted to presenting the theories and observational evidence relating to the origin and evolution of astronomical objects and the development of intelligent life in the universe. The course consists of five topics, viz.: The Origin and Evolution of (a) Stars, (b) The Solar System, (c) The Universe, (d) Galaxies, (e) Life in the Galaxy. Students are given a comprehensive introduction, using elementary mathematics and physics, to the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the basis of knowledge thus gained the possibility of extrasolar planetary systems is discussed and the question of the origin of life is considered in the context of recent discoveries of complex molecules in the interstellar medium. The course structure is two lectures and one tutorial per week. Evaluation is 35% for biweekly assignments, 15% for first term test, 15% for second term paper and 35% for the final exam.

Prerequisites: PHYA01 or PHYA02; MATA26 or MATA55

Session: Winter Day

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

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

ASTC01H is an "all year" half-course in which the student will do research on some topic of current interest in astrophysics and write a report ("mini-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 Dr. Dyer, Dr. Kronberg, or Dr. Martin. The bibliography is dependent upon the topic selected. Evaluation is 75% for thesis and 25% for discussion and oral summary.

Prerequisites: ASTA02Y or ASTB01; PHYB01; permission of instructor

Session: Winter Day

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, ecology. In addition to their fundamental significance, certain of these areas are central to understanding and solving many problems currently confronting mankind.

Students interested in Biology and planning to enter teaching or research professions should consider following the Major Programme in Biology. In addition to covering core areas of Biology, this programme includes essential courses in other disciplines, while leaving sufficient scope for specialization within certain areas of Biology.

For those students who do not have a clear career goal, a guide to recommended course patterns in Biology and related subjects is contained in a brochure (Biology at Scarborough) which is available in Academic Services and from the Chairman, Life Sciences Division.

Staff members should be consulted if you have questions about your programme in Biology.

The following course is normally taken in the first year of study:

BIOA03Y Introductory Biology

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

BIOB02Y	Basic Microbiology
BIOB05Y	Genetics
BIOB06Y	Plant Physiology
BIOB08Y	Invertebrate Zoology
BIOB12Y	Fundamentals of Ecology
BIOB13Y	Plant Structure and Development
BIOB17Y	General and Comparative Physiology
BIOB22Y	Comparative Vertebrate Morphogenesis
BIOB23Y	Developmental Biology
BIOB24Y	Plant Kingdom
BIOB27Y	Comparative Vertebrate Histology
BIOB39B	Biogeography
BIOB43Y	General Vertebrate Biology

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

BIOB11Y	Animal Populations and Evolution
BIOB15Y	Aquatic Systems
BIOB19S	Biology of Macromolecules
BIOB20F	Cell Ultrastructure
BIOB31F	Invertebrate Neurobiology
JBCB35Y	Introductory Biochemistry
JBCB36H	Laboratory in Biochemistry
BIOB41Y	Physiology of Microorganisms
BIOB47Y	Plant Ecology

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

NSCA02Y	Introduction to Natural Science: The Biological Sciences
NSCB02Y	Quaternary Environments and Man.

Major Programme in Biology

This programme must include the following courses:

- (1) BIOA03Y
- (2) At least one full course or equivalent from each of the following core areas:
 - (a) Genetics and Evolution: BIOB05Y, BIOB11Y, BIOB23Y
 - (b) Physiology and Biochemistry: BIOB02Y, (BIOB03S), BIOB06Y, BIOB17Y, (BIOB18F), BIOB19S, BIOB31F, JBCB35Y, JBCB36H, BIOB41Y, BIOB12H
 - (c) Ecology and Environmental Studies: BIOB12Y, BIOB15Y, (BIOB33F), (BIOB34S), BIOB39B, BIOB43Y, BIOB47Y, BIOB09F, BIOB11Y
 - (d) Experimental Morphology, Structure and Taxonomy: BIOB08Y, BIOB13Y, BIOB20F, BIOB22Y, BIOB24Y, BIOB27Y, (BIOB38F), (BIOB44S)
- (3) One full course equivalent at the C-level in Biology.
- (4) Four other Biology courses, unspecified. Of the total of ten Biology courses required for a Biology Major Programme, at least one must be a Plant Science Course: BIOB06Y, BIOB13Y, BIOB24Y, BIOB47Y, BIOB11Y, BIOB12H.
- (5) Required courses in other Disciplines: CHMA01Y or CHMA02Y, PHYA01Y or PHYA02Y, and a Mathematics course (MATA22Y, MATA26Y, MATA55Y or MATB52F and MATB57S) or a statistics full course in another discipline.
- (6) One full course or equivalent from the following: ANTB11S, ANTB12S, ANTB18Y, ANTB20Y, ANTB22Y, ANTB26Y, PHLB05F, PHLB70F, PHLC87S, SOCB05Y, SOCB11Y, SOCB19Y, SOCB23Y, SOCB15F. (When planning their course patterns students should take into consideration that some of the courses have a prerequisite, generally of an A-level course in the same discipline).

BIOA03Y Introductory Biology / The Faculty

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

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

Exclusion: Not open to students who are taking or have taken NSCA02Y

Session: Winter Day

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. Lecture - 60%; laboratory - 40%.

Prerequisite: BIOA03

Session: Winter Day

BIOB05Y Genetics / M. F. Filosa

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

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

Prerequisite: BIOA03

Session: Winter Day

BIOB06Y Plant Physiology / G. F. Israelstam

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. Laboratory exercises; three one hour tests based on lecture material; three one-hour tests based on laboratory material; one three-hour examination.

Prerequisite: BIOA03

Session: Winter Day

BIOB08Y Invertebrate Zoology / D. D. Williams

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

The first term will deal with the non-arthropod phyla (Protozoa - Urochordata) and will involve classification and study of diversity within groups, with emphasis on functional morphology and evolution. The second term will be devoted to the Arthropoda and will include the ecology and behaviour of interesting groups. Living specimens and technical films will form an important part of laboratories. Two one-hour lectures and three hours of laboratory work per week. One field trip. Written examination at end of first term - 20%; practical examination at end of first term - 20%; final written examination - 20%; final practical examination - 15%; one essay - 10%; laboratory reports - 15%.

Prerequisite: BIOA03

Session: Winter Day

BIOB11Y Animal Population and Evolution / I. Campbell

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. Evaluation will be based on four tests, sixteen problem sets and one major essay.

Prerequisite: BIOA03

Corequisite: BIOB05

Session: Winter Day

BIOB12Y Fundamentals of Ecology / R. Boonstra

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

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

Prerequisite: BIOA03

Session: Winter Day

BIOB13Y Plant Structure and Development / R. Dengler

This course deals with the structural variation and development of cells, tissues and organs in seed plants with emphasis on vegetative plant parts - roots, stems and leaves. Most laboratory periods offer the opportunity to gain first hand experience with plant material discussed in the lectures and text. A few laboratories are devoted to developing skills in plant microtechnique, and time is made available for each student to do an individual microtechnique project.

Specific topics include: embryo development, seedling vascularization, plant cell wall variation, protoplasmic constituents of plant cells; cell types of the epidermis, parenchyma, collenchyma, xylem and phloem tissues; the vascular cambium and cork cambium and their derivatives; initiation and development of roots, stems, and leaves. Lecture and laboratory work. The bibliography for this course is Esau, K. *Anatomy of Seed Plants*, John Wiley, New York.

Session: Winter Day

BIOB17Y General and Comparative Physiology

The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (1) Body fluids and circulation. (2) Ionic and osmotic balance. (3) Excretion. (4) Gas exchange. (5) Nerve and muscle physiology.

The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: 1st term; nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation. 2nd term; nerves and bioelectricity, synapses and integration, muscle and neuromuscular systems, sense receptors and C.N.S., hormones. Lectures and laboratory work. Term tests, laboratory reports, final examinations.

Prerequisite: BIOA03

Session: Winter Day

BIOB20F Cell Ultrastructure / R. Dengler, J. Youson

This cell biology course deals with current concepts of animal and plant cell ultrastructure and is concerned specifically with the basic structure, development, and function of cell organelles. Laboratory work emphasizes the interpretation of cell components as they appear in electron micrographs.

Topics include, (1) methods used in the biological application of electron microscopy; (2) cell membranes and cell surfaces; and (3) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc. Lectures and laboratories. Evaluation will be based on two laboratory examinations; one term paper; one lecture examination.

Prerequisite: BIOB13 or BIOB24 or BIOB27

Session: Winter Day

BIOB22Y Comparative Vertebrate Morphogenesis / A. Weatherley, R. Webb and J.H. Youson

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

Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to the anatomical and physiological diversity of the modern vertebrates, are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories. Examinations on lectures (50%) and laboratory (50%) materials.

Prerequisite: BIOA03

Session: Winter Day

BIOB23Y Developmental Biology / R. Dengler

The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a wide variety of organisms ranging from the unicellular to the multicellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. Limited enrolment: 100

In the fall term and the first half of the spring term the principles of animal development are dealt with. The following model systems are employed - 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. Lecture and laboratory examinations.

Prerequisite: BIOA03

Session: Winter Day

BIOB27Y Comparative Vertebrate Histology / J. Youson

The structure of the cells, tissues, and organs making up the major body systems of a variety of vertebrates as revealed through the light and electron microscopes. Differences and similarities of body systems will be discussed in relation to development, evolution, and function. Each student will be required to do an individual microtechnique project.

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

Session: Winter Day

BIOB39B Biogeography / G. Voss

A lecture tutorial course on the fundamentals of animal and plant distributions, as related to ecological, historical and evolutionary factors.

This is a terrestrial biogeography, i.e., the geography of angiosperms and vertebrates on land and in freshwater bodies. Briefly reviewing the history of life on earth, continental drift will be discussed insofar as the distribution of extant life forms is concerned. Man's biogeographical history will be reviewed with emphasis on man's affect on plant and animal distribution of the present. Floral kingdoms and faunal realms and regions will be identified. Lectures with film and slides; seminars. One or two field trips. Evaluation will be based on one essay, seminar and class participation; One final examination.

Prerequisite: BIOA03 or NSCA02

Session: Summer Day

BIOB43Y General Vertebrate Biology / A. Weatherley

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.

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

Corequisite: BIOB22

Session: Winter Day

BIOC01Y Supervised Study in Biology / Members of Faculty

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.

Exclusions: (BIOC01F); (BIOB02S)

Prerequisites: Satisfactory completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses

Session: Winter

BIOC02Y Directed Research in Biology / Members of Faculty

Identical to BIOC01Y but not to be taken with the same faculty member.

Exclusions: (BIOC01F); (BIOC02S)

Prerequisites: Completion of fifteen full-course equivalents, of which at least four must be Biological Science B-level courses

Session: Winter

BIOC11Y Quaternary Plant Ecology / J. C. Ritchie

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, starting 1974-75.

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

Prerequisite: NSCA03; BIOB12

Session: Winter Day

BIOC12H Physiology and Biochemistry of Plant Growth and Development / G.F. Israelstam

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. Evaluation will be based on essays and seminars.

Exclusion: (BIOB42H)

Prerequisite: BIOB06

Corequisite: JBCB35 recommended

Session: Winter Day

BIOC14S Ecological Methods / R. Boonstra

The course will deal with the biological application of statistics at a more advanced level. An introductory knowledge of statistics is assumed. The course is designed for students who hope to become graduate students, professional ecologists, or to work in related biological fields, such as forestry, fisheries, or wildlife.

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

Prerequisites: BIOB12 and an introductory statistics course such as PSYB07, MATB52, GGRB02, ANTB43, ECOB11, or the permission of the instructor.

Session: Winter Day (labs. Evening.)

BIOC16S Marine Biology / D. D. Williams

A lecture course in selected topics of marine biology.

Topics will include origins of the oceans; waves, tides and currents; historic marine expeditions; planktonic, intertidal, shallow and deep sea plants and animals and their adaptations; oceanic food chains, the structure of benthic communities and marine zoogeography; traditional aspects of marine invertebrate, fish and cetacean harvesting versus aquaculture and conservation; marine pollution, and man in the sea. Two hours of lectures per week plus bi-weekly tutorials. Evaluation will be based on an essay and/or seminar, final examination.

Prerequisite: BIOB08

Session: Winter Day

COURSES NOT OFFERED in 1979-80**BIOB15Y Aquatic Systems**

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

BIOB19S Biology of Macromolecules

Prerequisite: BIOA03Y

BIOB24Y Plant Kingdom**BIOB31F Invertebrate Neurobiology**

Exclusion: (BIOC07)

Prerequisite: BIOA03Y

BIOB41Y Physiology of Microorganisms

Exclusion: (BIOB03)

Prerequisite: BIOB02Y

BIOB47Y Plant Ecology

Exclusion: (BIOB34S)

Prerequisite: BIOB12Y

BIOC09F Field Course in Aquatic Biology

Exclusion: (BIOB26F)

Prerequisite: BIOA03Y; BIOB15Y; permission of instructors

BIOC10S Phytoplankton - Methods and Techniques

Exclusion: (BIOB30F)

Prerequisite: BIOB15Y

BIOC13S Environmental Biology of Fish Populations

Exclusion: (BIOB46S)

Prerequisite: BIOB43Y

BIOC15S Field Trip to Madagascar

Prerequisite: BIOB39B, or permission of instructor and Chairman

CHEMISTRY

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

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool through which to develop the resources of our contemporary society. The Chemistry Handbook for 1979-80, available at the Chemistry Office, outlines the teaching and research activities of the Chemistry Faculty and offers a wide range of informal advice on undergraduate activities. A sound knowledge of the fundamental concepts of Chemistry is useful to any student in the Physical or Life Sciences.

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

Completion of CHMA01 or 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 (CHMB04), Organic Chemistry (CHMB05 or CHMB06) and Physical Chemistry (CHMB03). Thereafter, one can proceed to the following advanced-level courses: CHMC01 (Inorganic), CHMC02 (Physical), CHMC03 (Organic), CHMC04 (Analytical) 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.

*Scarborough Courses**St. George Series*

CHMA01/A02; CHMB01; CHMB02; CHMC01	430
CHMA01/A02; CHMB03; CHMC02	420
CHMA01/A02; CHMB05; CHMC03	440 (except 447)
(providing B standing or permission of the instructor is obtained)	

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA01 or PHYA02 early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA01/CHMA02, MATA55 or MATA26 and PHYA01 or PHYA02.

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

Major Programme in Chemistry

Supervisor of Studies: R.A. McClelland

Students should complete the following fifteen required courses:

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

CHMA01Y/A02	Principals of Chemistry/General Chemistry
MATA26Y	Calculus
or	
(MATA40F; MATA45S and MATA55Y)	
PHYA01Y	Classical Mechanics/Principles of Classical Physics
or	
PHYA02Y	

- (2) In the second and third years of full-time study (or equivalent):
- | | |
|--------------|--|
| CHMB01Y | Inorganic Chemistry I |
| CHMB02Y/B04S | Analytical Chemistry I/Analytical Chemistry I |
| CHMB03Y | Physical Chemistry I |
| CHMB04S/B02Y | Analytical Chemistry I/Analytical Chemistry |
| CHMB05Y/B06Y | Organic Chemistry/Organic Chemistry I |
| CHMC01Y | Inorganic Chemistry II |
| CHMC02Y | Physical Chemistry II |
| CHMC03Y | Organic Chemistry II |
| CHMC04F/B02Y | Analytical Chemistry II/Analytical Chemistry |
| MATB41F | Techniques of the Calculus of Several Variables I |
| MATB42S | Techniques of the Calculus of Several Variables II |
- or
- | | |
|----------|-------------|
| MATB50F* | Analysis |
| MATB55S | Analysis II |

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

- (3) In addition four more full courses in Chemistry, including at least three full courses selected from the CHMC40 - 50 series and the 400 level courses at the St. George Campus. At least one full course must be taken at St. George from the 400 level, or CHM324F (Crystal Chemistry) and CHM325F (Macromolecular Chemistry).

Major Programme in Chemistry and Biochemistry

Supervisor of Studies: A.J. Kresge

Students should complete the following fifteen courses:

- (1) In the first year of full-time study (or equivalent):
- | | |
|--------------|---|
| CHMA01Y/A02Y | Principles of Chemistry/General Chemistry |
| BIOA03Y | Introductory Biology |
| MATA26Y | |
- or
- | | |
|---------|----------|
| MATA55Y | Calculus |
| PHYA01Y | |
- or
- | | |
|---------|---|
| PHYA02Y | Classical Mechanics/Principles of Classical Physics |
|---------|---|
- (2) In the second and third years of full-time study (or equivalent):
- | | |
|--------------|---|
| CHMB01Y | Inorganic Chemistry I |
| CHMB02Y/B04S | Analytical Chemistry I/Analytical Chemistry I |
| CHMB03Y | Physical Chemistry I |
| CHMB04S/B02Y | Analytical Chemistry I/Analytical Chemistry |
| CHMB05Y/B06Y | Organic Chemistry I/Organic Chemistry |
| JBCB35Y | Introductory Biochemistry |
| JBCB36H | Laboratory in Biochemistry |
| CHMC01Y | |
- or
- | | |
|--------------|--|
| CHMC02Y | Inorganic Chemistry II/Physical Chemistry II |
| CHMC03Y | Organic Chemistry II |
| CHMC04F/B02Y | Analytical Chemistry II/Analytical Chemistry |
| MATB41F | |
- or
- | | |
|---------|--|
| MATB50F | Techniques of the Calculus of Several Variables I/Analysis |
| MATB42S | |
- or
- | | |
|---------|--|
| MATB55S | Techniques of the Calculus of Several Variables II/Analysis II |
|---------|--|
- (3) In addition CHM447S (St. George) or BCH424S (St. George), one additional BCH400 series half-course (St. George) one and one-half additional CHM courses 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.

Major Programme in Chemical Physics

Supervisors of Studies: P. Brumer (Chemistry) and J.M. Perz (Physics)

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

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

- (1) In the first year of full-time study (or equivalent):
- | | |
|--------------|---|
| CHMA01Y/A02Y | Principles of Chemistry/General Chemistry |
| PHYA01Y | |
- or
- | | |
|---------|---|
| PHYA02Y | Classical Mechanics/Principles of Classical Physics |
| MATA26Y | |
- or
- | | |
|-----------|-----------------------------|
| (MATA55Y; | |
| MATA40F; | |
| MATA45S) | Calculus and Linear Algebra |
- (2) In the second and third years of full-time study (or equivalent) the following courses should be taken:
- | | |
|--------------|---------------------------------------|
| CHMB01Y | Inorganic Chemistry I |
| CHMB03Y | Physical Chemistry I |
| CHMB05Y/B06Y | Organic Chemistry I/Organic Chemistry |
| MATB41F | |
- and
- | | |
|---------|-------------------------------|
| MATB42S | Calculus of Several Variables |
|---------|-------------------------------|
- or
- | | |
|----------|---------------------------------|
| (MATB50F | |
| and | |
| MATB55S) | Analysis |
| CHMC02Y | Physical Chemistry II |
| PHYB01Y | Electricity and Magnetism |
| PHYB04F | Waves |
| PHYB08H | Intermediate Physics Laboratory |
| MATC41F | |
- and
- | | |
|---------|--|
| JPMC42S | Applied Differential Equations/Advanced Dynamics |
|---------|--|
- (3) In the fourth year of full-time study (or equivalent), four full courses must be taken, including a CHM400 series course on the St. George campus, a third year Physics course (e.g. PHYC01Y, PHYC03Y) and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

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

CHMA02Y General Chemistry I / T.R. Jack and another member of the Chemistry Faculty

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

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

Exclusion: CHMA01

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

Corequisites: MATA22 or MATA26 or MATA55

Session: Winter Day

CHMB01Y Inorganic Chemistry I / R.T. Hemmings

Atomic and molecular structure, including energy levels, bonding, electronegativity, lattice energies, heats of formation and hydration. Oxidation state diagrams. Chemistry of hydrides, halogens and selected topics in Main Group elements.

The further development of the ideas of structure and bonding introduced in CHMA01Y/CHMA02Y. The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in compound formation. The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements. The course structure is two lectures and one additional period per week to be used for supplementary or remedial work as required. The method of evaluation is tests, problem sets, and exams.

Prerequisites: CHMA01/CHMA02

Session: Winter Day

CHMB03Y Physical Chemistry I / G.A. Kenney-Wallace, J.E. Dove

Introduction to the Kinetic theory of gases, quantum mechanics, theories of chemical kinetics and the laws and applications of thermodynamics.

The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half ends with a treatment of chemical kinetics. In the second half of the course we resort to a thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications to a wide variety of contemporary problems including spontaneous processes, chemical equilibria, phase equilibria, etc. are emphasized. The text is "Physical Chemistry" by P.W. Atkins. The course structure is three lectures a week and occasional tutorials. The method of evaluation is problem sets, tests, a mid-year examination, and a final examination.

Exclusion: PHYB09

Prerequisites: CHMA01 or CHMA02; MATA26 or MATA55; PHYA01 or PHYA02

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

Session: Winter Day

CHMB04S Analytical Chemistry I / R.T. Hemmings

Introduction to qualitative and quantitative analysis involving classical volumetric and gravimetric techniques.

To introduce the principles and methods of chemical analysis and to provide practical experience in the techniques employed in the chemistry laboratory. Qualitative and quantitative analysis by wet chemistry techniques including gravimetric and volumetric procedures. The course structure is one lecture and six hours of laboratory per week. The overall grade is a composite of laboratory performance, a final examination, tests and problems.

Exclusion: (CHMB02Y)

Prerequisite: CHMA01Y or CHMA02Y

Other Recommended Courses: CHMB01Y

Session: Winter Day

CHMB05Y Organic Chemistry I / Laboratory - J. Potter

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

The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. The course structure is two lectures per week and a four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre. The method of evaluation is lecture tests, mid-term and final examinations, plus a laboratory mark.

Exclusion: CHMB06

Prerequisites: CHMA01 or CHMA02

Session: Winter Day

CHMC01Y Inorganic Chemistry II / A. Walker

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

The objective of this course is to understand the structure, bonding, spectra and reactions of transition metal complexes. The course structure is two hours of lecture per week; seven hours of laboratory per week to be taken in either the Fall or Spring term. The required text is "Inorganic Chemistry" 2nd edition by J.E. Huheey. The method of evaluation is problem sets 10%; two term tests 20%; laboratory 30%; final examination 40%.

Prerequisites: CHMB01, CHMB02 or CHMB04

Corequisites: CHMC04F (if only CHMB04 obtained).

Session: Lectures: Winter Day

Laboratory: Fall Term or Spring Term - One Day

CHMC02Y Physical Chemistry II / P. Brumer

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

The first half of the course emphasizes quantum chemistry and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules are then examined through atomic and molecular spectroscopy. Intermolecular forces and modes of energy transfer between molecules ultimately lead into a study of classical and quantum statistical mechanics through which we interpret the behaviour of microscopic systems. Finally, the basis of modern reaction dynamics will be introduced. The course structure is lectures, tutorial and laboratory. The method of evaluation is 75% (tentatively) for two three-hour examinations, term paper, and problem sets and 25% for laboratory marks.

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

Session: Lectures: Winter Day

Laboratory: Spring Term - One Day

CHMC03Y Organic Chemistry II / R. McClelland

Introduction to the structure, synthesis, and reactivity of organic compounds of biological importance. Application of organic reactions, stereochemistry, mechanisms, and synthesis. The laboratory will emphasize the use of modern physical techniques, newer synthetic methods, and the chemistry of natural products. This course will serve as prerequisite for CHM447 (St. George) only with the consent of the instructor.

This course provides further experience in organic chemistry to those who have completed one course in the subject. Topics will include an in-depth treatment of organic synthesis, stereochemistry, conformational analysis and reaction mechanisms; an introduction to polymers, photochemistry, heterocycles, terpenes, carbohydrates, amino acids, nucleic acids and related biological macromolecules. The laboratory experiments are designed to complement the topics covered in lecture, with an emphasis on more advanced techniques. The course structure is two lectures, one tutorial and one laboratory every week. The method of evaluation is one-hour tests, a mid-year examination, a final examination, and a laboratory mark.

Exclusion: CHM347 (St. George)

Prerequisites: CHMB05 or CHMB06

Session: Winter Day

CHMC04F Analytical Chemistry II / R.T. Hemmings

Introduction to the use of instrumentation in chemical analysis with emphasis on practical experience.

The objective is to provide practical experience in the use of routine analytical instruments and techniques. This course introduces the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographics and other separatory techniques. The course structure is one lecture and six hours of laboratory per week. The overall grade is a composite of laboratory performance, a final examination, term tests and problems.

Exclusion: (CHMB02Y)

Prerequisite: CHMB04

Corequisite: CHMC01Y

Session: Winter Day

CHMC45Y Library Thesis / Members of the Chemistry Faculty

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

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

Exclusion: CHMC47F/S/H

Prerequisite: Permission of instructor

Other Recommended Courses: Normally only for individuals who have completed fifteen courses and who are pursuing one of the Chemistry Major Programmes.

Session: Summer Day, Winter Day

CHMC46Y Introduction to Research / Members of the Chemistry Faculty

Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 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. The mark is awarded on the quantity and quality of work and on an oral presentation.

Prerequisite: Permission of Instructor

Corequisite: One of the advanced laboratory courses at St. George (CHM438F or CHM448F) (except for students undertaking a project in Physical Chemistry).

Other Recommended Courses: Normally only for students following one of the Chemistry Major Programmes.

Session: Summer Day, Winter Day

CHMC47F/S/H Library Thesis / Members of the Chemistry Faculty

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. The mark is awarded on the quality of the written work and on an oral presentation.

Exclusion: CHMC45

Prerequisite: Permission of instructor

Other Recommended Courses: Normally only for individuals who have completed fifteen courses and who are pursuing one of the Chemistry Major Programmes.

Session: Summer Day, Winter Day

CHMC48S Special Topics in Inorganic Chemistry / T. Jack, A. Walker

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

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful. The course structure is two lectures per week. The method of evaluation is to be decided. This can be in the form of a final examination, a seminar, an essay or a research proposal. The specific form to be followed will be announced at the beginning of the course.

Prerequisite: CHMC01

Session: Winter Day

CHMC49S Special Topics in Organic Chemistry / A.J. Kresge, R. McClelland

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

Topics of current interest in organic chemistry are studied. The course structure is two lectures per week. The method of evaluation is to be decided. This can be in the form of a final examination, an essay, a seminar, tests or a research proposal. The specific form to be followed will be announced at the beginning of the course.

Prerequisite: CHMC03

Session: Winter Day

CHMC50S Special Topics in Physical Chemistry / P. Brumer, J.E. Dove, G.A. Kenney-Wallace

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

The content of the course varies from year to year and in 1979-80 will focus on topics in quantum chemistry or theories of elementary chemical reactions. The course structure is two lectures per week. The (tentative) method of evaluation is one major paper and seminar presentation and literature research assignments.

Prerequisite: CHMC02

Session: Winter Day

COURSES NOT OFFERED 1979-80

- CHMA01Y Principles of Chemistry**
Exclusion: CHMA02Y
Prerequisites: Grade 13 Chemistry; Grade 13 Functions & Relations
Corequisites: MATA26 or MATA55; PHYA01 or PHYA02
- CHMB06Y Organic Chemistry I**
Exclusion: CHMB05
Prerequisites: CHMA01 or CHMA02
- CHMC40F Kinetics & Mechanism of Chemical Reactions**
Corequisites: CHMC01; CHMC02; CHMC03
- CHMC41S Structure & Synthesis of Chemical Compounds**
Corequisites: CHMC01; CHMC02; CHMC03

CLASSICAL STUDIES

Discipline Representative: M.E. Irwin

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

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

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

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

- | | |
|---------|---|
| DRAB05Y | Art and Nature of Comedy |
| FARB21F | Archaic Greek Sculpture |
| FARB05S | Classical Greek Sculpture |
| FARB42Y | Painting in Ancient Egypt, Prehistoric and Classical Greece |
| HUMA11Y | Greek and Roman Mythology |
| HUMB22F | The Age of Pericles |
| HUMB23S | The Age of Augustus |
| HUMB24S | The Age of Nero |
| HUMB25F | The Age of Homer |
| HUMB61S | Women in Ancient Greece |
| JHEC13Y | Seminar in Literary Theory and Practice |
| PHLB40F | Plato and his Predecessors I |
| PHLB41S | Plato and his Predecessors II |
| PHLB42F | Aristotle and Later Greek Philosophy I |
| PHLB43S | Aristotle and Later Greek Philosophy II |

Major Programme in English and Classics

See page 80 of this Calendar

Major Programme in Latin and a Modern Language

See page 152 of this Calendar

Major Programme in Philosophy and Greek

See page 155 of this Calendar

CLAB01Y Greek and Roman Epic / first term, W.E. McLeod, second term, J. Warden

The epic genre in the classical world: its genesis in myth and history; its cultural and artistic determinants; its place in the history of ideas and in the growth of the Western literary tradition. Close reading of Homer's *Iliad* and *Odyssey*, Virgil's *Aeneid*, Lucan's *Pharsalia*; reference also to other works and their contribution to the development of the genre.

All study of Western Literature starts with Homer. The aim of this course is to make you familiar with the texts of Homer and his successors in the epic genre, so that you may learn to appreciate them for themselves within their own cultural and historical context and begin to understand the nature of their influence on later literature.

Classes will be an informal mixture of lectures and seminars. Methods of evaluation will include two essays, tests, and a final examination. If you wish to do any reading in advance, you might start with some of the following: Homer, *The Iliad* (transl. R. Lattimore) U of Chicago Press p.b.; Homer, *The Odyssey* (transl. E.V. Rieu) Penguin Classics p.b.; E.T. Owen, *The Story of the Iliad*, Clarke Irwin 1964 p.b.; G.S. Kirk, *The Songs of Homer*, Cambridge Univ. Press 1962.

Session: Winter Day

CLAB02Y Greek and Roman Tragedy / M.T. O'Mara

An exploration of the nature and intent of classical tragic drama, its conventions, historical origins and cultural context. All texts will be read in translation.

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

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

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

Session: Winter Day

CLAB23F Christianity in the Greco-Roman World / M.E. Irwin

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

Some of the topics discussed will be a history of the relationship between the church and the state, persecution and martyrdom, rival religions, the development of Christian art and architecture, and the influence of Greek philosophy. We will read selections from writers of the first four centuries of the church and will also consider the pagan reaction.

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

Session: Winter Day

GRHB01Y Greek History from the Bronze Age to the Death of Alexander / A. Boddington

An introduction to political, economic, social and cultural aspects of Greek history. It will be assumed that most students will have gained some experience of the methods and objectives of historical study, and this course will therefore be taught as a B course, in spite of being introductory. The period will be studied, so far as possible, from the Greek authors (in translation) and attention will be given to the discoveries and method of archaeology. The course should be of interest to students of Classics, History, Archaeology, Anthropology and Political Science.

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

Session: Winter Day

GRHB03Y Roman History from the Gracchi to Nero / A. Boddington

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

GRHB24S Ancient Historiography / I.R. McDonald

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

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

There will be three lecture/discussions per week, in which students are encouraged to take an active part. Evaluation will be by essay and examination.

Session: Winter Day

GRHB29Y Studies in Roman History: Roman Britain / A. Boddington

An examination of life and culture in Roman Britain.

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

Prerequisite: GRHB03Y or any other GRH course.

Session: Winter Day

GRKA01Y Introductory Greek / J.N. Grant

The bases of the language, with an emphasis on reading.

This course is for students who wish to acquire a basic reading knowledge of ancient Greek. Evaluation will be based on regular class tests and a final examination.

Session: Winter Day

GRKA10F Introduction to Greek Authors / M.E. Irwin

A rapid reading of simple Greek texts combined with a consolidation of grammar.

This course is intended to help students review classical Greek grammar in preparation for reading texts.

There will be three one-hour meetings weekly, one given to review of syntax and forms and the other two spent in reading selections from ancient authors. There will be a test during the term and a final examination.

A Greek Reader for Schools, C.E. Freeman and W.D. Lowe (Oxford 1917). *A Primer of Greek Grammar*, E. Abbott and E.D. Mansfield (London, Duckworth 1977). A Greek-English lexicon.

Prerequisite: Grade XIII Greek or GRKA01

Session: Winter Day

GRKB01S Plato: Apology / M.E. Irwin

In addition to the text to be read there will be accompanying exercises to assist the student in further study of the Greek language.

The Apology, Plato's account of Socrates' defense against the charges of religious non-conformity and of corrupting the young, will be read in Greek. In addition to the reading of the text, the political, legal and social situation in Athens at the time of the trial will be considered.

There will be three one-hour meetings weekly in which students will be expected to participate actively by translating and discussing passages of the text.

A test during the term, a short essay and a final examination will be the means of evaluating this course.

Prerequisite: GRKA10F

Session: Winter Day

GRKB30F-B34F

GRKB35S-B39S

GRKB40 Supervised Reading / Co-ordinator: M.E. Irwin

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

Students who wish to enter the Greek Directed reading programme should enrol in any of the above courses. They should then contact the 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

LATA01Y Introductory Latin / I.R. McDonald

The purpose of this course is to acquaint the student with the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature.

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

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

The text is F.M. Wheelock, *Latin. An Introductory Course based on ancient authors*. Evaluation is by final examination (50%), short quizzes and exercises (50%).

Session: Winter Day

LATA10F Introduction to Latin Authors / I.R. McDonald

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

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

Texts to be read will be selected from a wide range of styles and periods to give the student a good general view of the scope and variety of Latin literature.

Evaluation will be by final examination and short exercises and quizzes.

Prerequisite: LATA01Y or Grade 13 Latin

Session: Winter Day

LATB01S Catullus / J.N. Grant

A selection of the works of Catullus will be read. 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. The text used will be the edition of Kenneth Quinn (Macmillan, 1970).

Evaluation will be based on two tests, one essay, and sight translation.

Prerequisites: LATA10F

Session: Winter Day

LATB30F-33F

LATB35S-39S

LATB40Y Supervised Reading / Co-ordinator: J.N. Grant

Students who wish to enter the Latin Supervised Reading Programme 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.

Prerequisites: LATB01 or LATB02

Session: Winter Day

LATC01F-02S Independent Studies / Co-ordinator: J.N. Grant

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.

Prerequisites: At least two of LATB21, LATB22, LATB30-31, LATB35-39; permission of instructor.

Session: Winter Day

CLASSICS and RELATED COURSES NOT OFFERED in 1979-80:

CLAB21Y Greek and Roman Religion

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

GRHB25Y Studies in Greek History I (c. 800-300 B.C.)

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

GRHB26Y Studies in Greek History II (c. 800-300 B.C.)

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

GRHB27Y Studies in Roman History: Pompeii

GRHB28Y Studies in Roman History

COMMERCE

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 fifteen or twenty course degree (normally a B.A. degree) and may, if they wish, work towards completing the twenty-course Major Programme in Commerce and Economics. Graduates of a fifteen or twenty course degree programme may be eligible for admission to graduate study in business or may seek employment in accountancy or pursue other industrial/commercial/governmental careers. A brochure describing accountancy careers is available from the Student Services Office (284-3292).

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

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

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

In view of the many academic and career options available in the Commerce area, students are encouraged to seek the advice of the Supervisor of Studies for Commerce (284-3115).

Other Commerce Courses

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

JCEB54S Industrial Relations

JCEB72F Analysis for Decision Making I

JCEB73S Analysis for Decision Making II

JCEC02Y Corporation Finance

JCEC40S Public Policy Towards Business

JCSB27Y Organizational Behaviour

Major Programme in Commerce and Economics

Supervisor of Studies: H. Babiak

The major 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, (formerly ECOB01/02), ECOB07 (formerly ECOB05/06/08) and ECOB11;
- (3) A course in Calculus (MATA22 or MATA26 or MATA55);
- (4) A half-course in Computer Science (CSCA56 or CSCA58);
- (5) One and one-half full course equivalents from areas other than Commerce, Computer Science, Economics and Mathematics.

The remaining courses required for the degree may be taken in Commerce or from any other area of study.

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.

Chartered Accountancy as a Career

The College offers a significant number of courses which have been recognised as meeting part of the educational requirements of the Institute of Chartered Accountants of Ontario. A brochure describing the Chartered Accountancy programme and listing the recognised Scarborough College courses is available from the Student Services Office (284-3292).

COMA01Y Financial Accounting / A. Stawinoga (Coordinator)

Basic theory and concepts which underlie the preparation of financial statements; development of double entry theory and practice; the accounting cycle from the recording of transactions in double entry form to the year-end entries and the preparation of financial statements; problems of measuring income.

The course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying those techniques. Evaluation is based on weekly homework assignments (10% of the final mark) and on three mid-term tests and a final examination.

Session: Winter Day, Winter Evening, Summer Evening

COMB01Y Management Accounting / H. Babiak (Coordinator)

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

Evaluation is based on weekly homework assignments (10% of the final mark) and on three mid-term tests and a final examination.

Prerequisite: COMA01

Session: Winter Day, Winter Evening

COMC01Y Accounting Theory / H. Babiak

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

The course builds extensively on the material in COMA01 and, to a lesser extent, COMB01. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles *prior* to the start of the course. Weekly homework problems, term tests, a final examination and class participation will all be evaluated. A number of short quizzes will also be given.

Prerequisite: COMB01

Session: Winter Day

COMC03Y Marketing / T.J. Mitchell

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

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

Prerequisite: COMB01

Session: Winter Day

COMC15Y Income Tax

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

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

Prerequisite: Completion of at least ten courses including COMA01Y and ECOA01Y

Session: Winter Evening

COMC30Y The Legal Environment of Business / L.A. Torkin, J. Feldman

An intensive examination of those aspects of the law that most directly affect the operations of a business. Limited enrolment: 60

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

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

Session: Winter Day

COMMERCE COURSES NOT OFFERED in 1979-80

COMC20Y Business Policy

Prerequisites: COMB01; (COMB27); (SOCB27); JCSB27; (COMC02); COMC03; JCEC02

COMPUTER SCIENCE

Discipline Representative: R. Perrault

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

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

Course offerings are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers in other fields. The major programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare him for graduate study. The major programme in Computer Science for Data Management is intended for students who plan to pursue a career in information systems development, an area of increasing importance to business, industry and government. From this programme a student may continue with graduate study in Computer Science. If certain optional courses in Commerce, are taken in the third and fourth years, a student in this programme may qualify for advanced standing toward the MBA degree.

Students who wish to study computing primarily in order to use computer techniques in their own specialities should begin with CSCA56F and CSCA66S. JMCC51S is then available, (as are CSC208S, 218F, and 300F, given on the St. George Campus.)

Students who are anticipating a career in secondary school teaching should select several courses from the following: CSCA56F/A58F, A66S/A68S, B28S, B68F, B73F, C34F, JMCC51S, and CSC300S, 374F offered on the St. George Campus.

Students should also look at JMCC51 and JMCC31 which are additional computer science courses.

Major Programme in Computer Science

Supervisor of Studies: R. Perrault

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

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

CSCA58F, CSCA68S, MATA26/MATA55, MATA40F, MATA45S

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

CSCB68F, CSCB73F, CSCB28F, (MATB41F and MATB42S)/(MATB50 and MATB55)

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

CSCC34F, JMCC51S, MATC44F, MATB52F, MATB57S, MATC41F/MATC60F/MATB40F

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

Two full courses to be chosen from the following options. (Note that only CSCC44F and CSCC48S are available at Scarborough and can be taken in third year (or equivalent); the remaining courses must be completed at the St. George campus). Any two of CSC438F, 441S, 446H, 451F, CSCC48 (including at least one of 438F and CSCC48S), and any two of CSCC44F, 374F, 434F, 444S, 458S, 468F, 474S.

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

Major Programme in Computer Science for Data Management

Supervisor of Studies: R. Perrault

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

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

CSCA58F, CSCA68S, MATA26/(MATA55 and MATA40F), COMA01, ECOA01
MATA40F will be required later in the programme if the option MATA26 is chosen.

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

CSCB68F, CSCB73F, CSCB28S, ECOB01F, ECOB02S, MATB41F, MATB42S.

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

CSCC34F, COMB01, MATA40F, MATB52F, MATB57S

(4) In the third or fourth year of full-time study (or equivalent):

Two and a half full courses to be chosen from the following options: (Note that JMCC51, MATC44, CSCC44 and CSCC48S are offered at Scarborough, while the remaining courses must be completed at the St. George campus.) Any two of MATC44F, CSCC48S, JMCC51S, CSC364S/438F and any three of CSCC44F, 374F, 434F, 444S, 458S, 468F, 474S.

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

CSCA56F/S/H Computer Programming / Members of Computer Science Faculty

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

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

Exclusions: CSCA58, (MATA56), (MATA58)

Prerequisite: One grade 13 course in Mathematics

Session: Winter Day, Winter Evening, Summer Evening

CSCA58F Introduction to Computing / Members of Computer Science Faculty

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

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

Exclusions: CSCA56, (MATA56), (MATA58)

Prerequisites: Grade 13 Functions and Relations, or Grade 13 Calculus

Corequisites: MATA26 or MATA40 or MATA55

Session: Winter Day

CSCA66S Programming Applications / Members of Computer Science Faculty

A continuation of CSCA56. Practical approaches to solving problems involving data structures, non-numerical applications (graph theory, game theory), data processing, and numerical computations. The course also covers recursive programming.

This course is a continuation of CSCA56 and it covers sample problems from several areas. Topics covered in this course include data structures, recursion, data processing, graph theory (game theory), and numerical computations. More emphasis is put on data structures and recursion. Three weeks are spent on data structures where structures such as linked lists and trees are studied. The rest of the course is evenly distributed between the other topics. The method of evaluation is a one hour mid-term, a final examination, four or five assignments and bi-weekly tutorial quizzes.

Exclusions: CSCA68, (MATA68) (MATA66)

Prerequisites: (MATA56) or (MATA58) or CSCA56 or CSCA58

Session: Winter Day

CSCA68S Problem Solving With Computers / Members of Computer Science Faculty

A continuation of CSCA58. The application of computers to various numerical and non-numerical problems. Topics will include numerical methods, simulations, graph theory, data processing, and the validity of computer models.

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

Exclusions: CSCA66, (MATA66), (MATA68)

Prerequisites: (MATA58) or CSCA58 or (MATA56) or CSCA56 and permission of instructor

Session: Winter Day

CSCB28S Programming Techniques for Data Processing

This course is intended to examine the role of the computer in the business environment. The emphasis will be on the design methodology of business computer systems, rather than particular applications.

Specific topics include: COBOL programming; the Modular approach to programme design including: decision tables, if applicable programming and table driven logic; sequential file processing including: data validation, external sorting, generalised file processing systems. Some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given. The course structure is lectures and tutorials. The method of evaluation is two one hour quizzes, three programming assignments and three written assignments.

Exclusion: (MATB28)

Prerequisite: (MATA68) or CSCA68

Session: Winter Day

CSCB68F Programming Languages and Their Applications

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

This course is intended to introduce students to a wide range of programming languages, their formal description, and their applications. The languages ALGOL, SNOBOL, LISP will be discussed in detail, and their features will be compared. Other languages will also be discussed. The method of evaluation is a mid-term exam, a final exam and four or five programming assignments.

Exclusion: (MATB68)

Prerequisite: (MATA68) or CSCA68

Session: Winter Day

CSCB73F Computer Organization

This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. No knowledge of electronics is necessary as gates are the basic building blocks that will be used.

Specific topics include: an introduction to boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogrammed machine, basic data representation, assembler language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. The course structure is lectures and tutorials. The method of evaluation is two one hour quizzes and six homework assignments.

Exclusion: (MATB73)

Prerequisite: (MATA68) or CSCA68

Session: Winter Day

CSCC34F Data Structures / C.R. Perrault

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. The method of evaluation is two tests and six written or programming assignments.

Exclusion: (MATC34)

Prerequisite: (MATB68) or CSCB68

Session: Winter Day

CSCC44F Problem-Oriented Languages and Interpreters

This course is designed to give students insight into the workings of a programming language processor. It will motivate the use of formal languages in the specification of syntax and semantics for a programming language.

Specific topics include: an overview of a language processor's lexical analysis, an introduction to the mathematical theory of syntax, basic concepts of syntactic and analysis and parsing algorithms, specification of semantics and code generation, the run-time organization of the language processor, storage allocation. The SNOBOL and ALGOL-W language processors will be used as a source of examples. The course structure is lectures and assignments. A series of assignments will result in the students building their own compiler/interpreter. The method of evaluation is two one hour quizzes and six written or programming assignments.

Prerequisites: CSCB28, CSCB73, CSCB68

Session: Winter Day

CSCC48S Automata Theory / W. Enright

Sequential machines, finite automata and regular sets; generative grammars and languages (context free, context sensitive) and their relation to classes of automata (push down, linear bounded); complexity bounds for recognition, language decision problems, and operations on languages; applications to programme schemata and compiling.

Prerequisite: MATC44

Session: Winter Day

CO-OPERATIVE PROGRAMME IN ADMINISTRATION

This Programme is designed for those students who intend to seek careers in administration, primarily in the public sector. Graduates from the Programme receive a twenty-course B.A. (Specialist in Administration).

The basic principle of 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.

The Programme combines eight four-month terms of study at Scarborough College with four terms of work experience. Work placements are normally made in the public sector and these are arranged by the Co-ordinator of the Programme. The submission of work-term reports and satisfactory performance in placements is a requisite for continuation in the Programme.

All students enrolled in the Programme are required to take a core of ten full course equivalents. Thereafter five advanced options are available (Political Policy Analysis; Economic Policy Analysis; Social Policy Analysis; Urban and Regional Policy Analysis; Programme Management) requiring from three to four additional full-course equivalents. It should be noted that, with the exception of Urban and Regional Policy Analysis, the choice of an advanced option need not be made until the completion of four study terms.

Students are advised that a working knowledge of French is most desirable for employment in the public service, federally and provincially. The programme of intensive French study offered in the Summer Language Institute at Scarborough College is strongly recommended.

Further information may be obtained from the Co-ordinator of the Programme in Administration (284-3117) or Student Services (284-3292).

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

I Behavioural Foundations (two full course equivalents)

Required:

JCSB27Y Organizational Behaviour

one full course equivalent from:

POLB65Y Political Behaviour

POLB66Y Psychology and Politics

POLC65F/S Topics in Political Leadership

SOCB04Y Political Sociology

SOCC13F/S Industrial Sociology

SOCC07S Sociology of Occupations and Professions

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

Required:

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

one of:

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

III *Humanities* (one full course equivalent)

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

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

Required:

COMA01Y	Financial Accounting
COMB01Y	Management Accounting

at least 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
MATB52F	Probability and Statistics I
MATB57S	Probability and Statistics II
PSYB07F	Data Analysis in Psychology
PSYB08S	Experimental Design in Psychology
SOCB06F	Social Statistics

B. *Advanced options:*

I *Political 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) at least one half full course equivalent from:

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

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

a) Required:

ECOB07Y	Macroeconomic Theory and Policy
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b) one and one half full course equivalents from:

ECOB31S	Economics of the Public Sector: Taxation
ECOB32F	Economics of the Public Sector: Expenditures
ECOB41S	Industrial Organization
JCEC40F	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 *Social Policy Analysis* (four full course equivalents)

a) Required:

SOCB01Y	Methods in Social Research
SOCB05Y	Urban Sociology
SOCC06F/S	Applied Sociology

b) at least one half full course equivalent from:

SOCB23Y	Population
SOCC07S	Sociology of Occupations and Professions
SOCC11F/S	Sociology of Law and Law Enforcement
SOCC13F/S	Industrial Sociology
SOCC22F/S	Quantitative Methods in Social Research
COMC03Y	Marketing

c) one full course equivalent from:

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

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

a) Required:

GGRA04Y	The Nature of Human Geography
GGRB05Y	Urban Geography
GGRC27Y	Introduction to Regional Science

b) one full course equivalent from:

ECOB47S	Urban Economics
POLB88Y	Urban Politics
POLC60F	Administrative Politics
POLC61S	Policy Development
POLC62F/S	Organized Interests and the State
SOCC26F/S	Urban Growth and Planning

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

a) two full course equivalents from:

COMC03Y	Marketing
JCEC02Y	Corporation Finance
JCEB72F	Analysis for Decision Making I
JCEB73S	Analysis for Decision Making II

b) one half full course equivalent from:

POLC60F	Administrative Politics
POLC62F/S	Organized Interests and the State

c) one full course equivalent from:

ECOB41F	Industrial Organization
and	
JCEC40F	Public Policy Towards Business
SOCC07S	Sociology of Occupations and Professions
and	
SOCC13F/S	Industrial Sociology
CSCA56F	Computer Programming
or	
CSCA58F	Introduction to Computing
and	
CSCA68S	Programming Applications

DRAMA

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

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

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

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

The practical program consists of courses in which the students become acquainted with all the aspects of the theatre production in studio situations, both as actors and technicians. The students study with faculty members and with professional artists and teachers. Participation in public productions at the College is encouraged. Students wishing to major in drama are advised to consult with M. Schonberg, the co-ordinator of Drama studies.

Major Programme in Drama

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

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

The following five courses comprise the core of the programme:

DRAB01Y	Drama Workshop and Seminar
DRAB03Y	The History of Theatre I
DRAB04Y	The History of Theatre II
ENGB11Y	Varieties of Drama
ENGB31Y	Modern Drama

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

DRAC01Y	Advanced Practical Workshop and Elements of Directing
DRAC10Y	Individual Studies in French Drama
DRAC11Y	Individual Studies in German Drama
DRAC12Y	Individual Studies in Italian Drama
DRAC13Y	Individual Studies in Russian Drama
DRAC14Y	Individual Studies in Spanish Drama
DRAC20Y	to
DRAC24Y	Supervised Reading Courses

The student may take only one of the Individual Studies courses in any single academic year. The remaining four or more courses may be chosen from the following:

CLAB02Y	Greek and Roman Tragedy
DRAB02Y	The Directors' Theatre
DRAB05Y	The Art and Nature of Comedy
DRAB10B	The Theory and Practice of Improvisational Theatre: Commedia dell'Arte
ENGB04Y	English Poetry and Drama 1660 to 1800
ENGB10Y	Shakespeare
ENGB12Y	English Drama to 1642
ENGB13F/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
FREB38F/S	The Theatre of French Canada
FREB41F/S	The Playwrights of the Golden Age
GERB40Y	(GERB21Y) The Development of German Drama (in translation)
GERB63F	(GERB16F) Nineteenth Century Drama
GERB70S	(GERB03S) Twentieth Century Drama and Poetry
ITAB15F/S	Pirandello and the Italian Theatre of his Time
ITAB16F/S	Italian Theatre from 1930 to the Present
ITAB41F/S	Italian Eighteenth Century Theatre
JHDB12Y	Introduction to Cinema
SPAB23Y	Spanish Drama

DRAB01Y An Introduction to the Practical Elements of Theatre / L.L. Browne

An introduction to the practical elements of theatre.

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

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

Continuous evaluation with emphasis on participation, concentration and attendance. Careful preparation for each of the workshops is essential. The marking system for the course will be credit/non-credit. Lab fee \$15.00

Session: Winter Day

DRAB03Y The History of Theatre I / L.L. Browne

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

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

Attention will also be paid to the social and political milieu from which the plays arise.

There will be two one-hour lectures weekly and tutorials. The text for the course will be *History of the Theatre* by Oscar Brockett. Representative plays will be announced. The student will be evaluated on the basis of two essays and two exams.

Session: Winter Day

DRAB12B Medieval and Early Tudor Drama: The Texts and Their Production / D. DeMatteis

The drama of Medieval and Early Tudor England: the liturgical beginnings, the religious musical dramas of the 12th century, the cycle plays, saints plays, conversion plays, moralities and humanist dramas.

Session: Summer Day

Summer Arts Programme

(See Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office).

DRAC01Y Advanced Practical Workshop and Elements of Directing / L.L. Browne

This course is designed to enable advanced students to concentrate on problems related to the staging and direction of plays in studio situations. A portion of the course is given to work with TV-video tape equipment.

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

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

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

Prerequisite: DRAB01

Session: Winter Day

DRAC10Y Individual Studies in French Theatre and Drama in Translation / L.L. Browne

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

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

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

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

Prerequisites: At least ten full course equivalents, two of which must be DRAB03 and DRAB04. This course is intended for students majoring in Drama who are not sufficiently fluent in French/German/Italian/Russian to read the works in the original language. Permission of Drama Co-ordinator required.

Session: Winter Day

DRAC11Y Individual Studies in German Theatre and Drama in Translation / L.L. Browne

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

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

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

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

Prerequisite: Same as for DRAC10

Session: Winter Day

DRAC12Y Individual Studies in Italian Theatre and Drama in Translation / L.L. Browne

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

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

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

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

Prerequisite: Same as for DRAC10

Session: Winter Day

DRAC14Y Individual Studies in Spanish Theatre in Translation / L.L. Browne

This course is intended for students in the Major programme in Drama who do not have adequate knowledge of the Spanish language to be able to work with original texts.

The specific content of the course and the method of evaluation will be arranged in consultation between the student, a member of the Spanish section, and the supervisor of Drama studies.

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

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

Session: Winter Day

DRAC20Y-24Y Supervised Reading Courses / L.L. Browne

This is an advanced reading course for drama students. The student wishing to take this course should consult with M. Schonberg, co-ordinator of drama program, 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 Co-ordinator of Drama studies in consultation with other members of faculty.

For 1979-80 please submit proposals to L.L. Browne. Evaluation will be based on written submissions which will be agreed upon by the student and the instructor at the beginning of the course.

Prerequisites: One B-level course in Drama, and permission of instructor.

Session: Winter Day

COURSES NOT OFFERED in 1979-80

DRAB02Y The Directors' Theatre

DRAB04Y The History of Theatre II

DRAB05Y The Art and Nature of Comedy

Exclusion: CLAB09

JHDB12Y Introduction to Cinema

DRAC13Y Individual Studies in Russian Theatre and Drama in Translation

ECONOMICS

Assistant Chairman: M.W. Bucovetsky

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

There are certain courses which are central to the programme: the introductory course (ECOA01); the initial B-level courses - price theory I and II (ECOB01, ECOB02) and national income (ECOB05); at least one among courses that provide a different perspective either on contemporary economic theory, or on ways of organizing economic activity - economic history (ECOB81, ECOB82), the literature of economics (ECOB20, ECOB21), comparative economic systems (ECOB68). A student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science and, most important of all, Mathematics (especially Calculus, Probability Theory, and Linear Algebra).

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

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

<i>Course Name</i>	<i>Number in 1975-76 and Before</i>	<i>Number in 1975-76 and Beyond</i>
National Income and the National Economy	ECOB02F	ECOB05F/S
North American Economic History	ECOB03Y	ECOB81Y
European Economic History	ECOB04Y	ECOB82Y
Economics of Public Sector:		
Taxation	ECOB07S	ECOB31S
Expenditures	ECOB08F	ECOB32F
Economic Development	ECOB09F	ECOB66F
Comparative Economic Systems	ECOB10F	ECOB68S
Money and Banking	ECOB11S	ECOB03F/S
International Economics:		
Finance	ECOB12F	ECOB61F
Trade Theory	ECOB13S	ECOB62S
Labour Economics	ECOB14S	ECOB51S
Industrial Organization	ECOB16S	ECOB41S
Urban Economics	ECOB17F	ECOB47F
Marcoeconomic Policy	ECOB18S	ECOB06S
Literature of Political Economy I	ECOB20F	ECOB20F
Literature of Political Economy II	ECOB21S	ECOB21S
Analysis for Decision Making	ECOB26Y	JCEB72F/73S

Major Programme in Economics

Supervisor of Studies: R. Saunders

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

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

Students must complete at least nine full courses (or equivalent) in Economics, and must complete the following specific courses:

ECO A01Y
CSCA56F or CSCA58F
MATA22Y or MATA26Y or MATA55Y
(ECOB01F and ECOB02S) or ECOB03Y
(ECOB05F and ECOB06S) or ECOB07Y
ECOB11F/S and ECOB12S
ECOB20F/S or ECOB21F/S or ECOC05F/S or ECOC07F/S
ECOB66F/S or ECOB68F/S or ECOB81Y or ECOB82Y

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

Students are urged to take ECOA01Y, CSCA56F or CSCA58F and either MATA22Y or MATA26Y or MATA55Y in their first year of full-time study (or equivalent). The courses in Mathematics, particularly MATA26Y or MATA55Y, are recommended as preliminary to ECOB01F, which is an important course in the second year of full-time study (or equivalent). ECOB11F/S should be included in the first ten courses taken.

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

Major Programme in Economics and Commerce

Please refer to "Commerce and Economics"

Major Programme in Economics and Political Science

Supervisor of Studies: R. Saunders

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

Required courses in Economics:

ECO A01Y
ECOB03Y
ECOB07Y
ECOB31S, ECOB32F

Recommended courses in Economics: (at least one from each of A, B, and C)

A: ECOB20F or ECOB21S or ECOC05S or ECOC07F
B: ECOB35S or ECOB66F
C: ECOB11F/S or MATB52F and B57S

Required courses in Political Science:

POLA01Y
POLB50Y (POLB01Y)
POLB70Y or POLB71Y (POLB03Y or POLB06Y)

Recommended courses in Political Science: (three additional courses from at least two of the five categories below. Alternative courses in political theory or Canadian government may be acceptable if chosen with the advice and concurrence of the Supervisor of Studies*)

A: Public Administration - POLB60Y, POLC60F, and 61S, POLC62F/S
B: Political Behaviour - POLB65Y, POLB66Y, POLC65F/S
C: International Relations - POLB80Y, POLB81F/S, POLB82Y, POLC80Y
D: Comparative Politics, Industrialised Countries - POLB85Y, POLB86Y, POLB87Y, POLB88Y, POLB89Y, POLC85Y
E: Comparative Politics, Developing Countries - POLB91Y, POLB92Y, POLB93Y, POLB94Y, POLC91F, POLC92S

Related courses in other disciplines:

MATA22Y or MATA26Y, CSCA56F, COMA01Y.

ECO A01Y Introduction to Economics / Staff

A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, pollution, poverty, monopoly.

Session: Summer Evening, Winter Day, Winter Evening

ECOB01F Price Theory I / G. Slasor

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

Exclusion: ECOB03Y

Prerequisite: ECOA01

Session: Summer Day

ECOB02S Price Theory II / G. Slasor

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

Exclusion: ECOB03Y

Prerequisite: ECOB01

Session: Summer Day

ECOB03Y Price Theory / Staff

Intermediate level development of the principles of microeconomic theory. Initially the primary emphasis is on static partial equilibrium analysis, but general equilibrium analysis is developed later in the course. The topics covered are consumer theory, theory of production, theory of the firm, theories of competition, monopoly and oligopoly, factor prices and welfare economics.

Exclusions: ECOB01 and ECOB02

Prerequisite: ECOA01Y

Session: Winter Day, Winter Evening

ECOB05F National Income and the National Economy

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

Exclusion: ECOB07, ECOC07

Prerequisite: ECOA01

Session: Summer Evening

ECOB06S Macroeconomic Policy

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

Exclusion: ECOB07

Prerequisite: ECOB05

Session: Summer Evening

ECOB07Y Macroeconomic Theory and Policy / Staff

An exposition of macroeconomic theory with detailed discussion of the theory of output, employment and the price level and of policy techniques for influencing and controlling the levels of these variables. There is some discussion of Canadian institutions and markets as well as of the policy experiences of Canada and other countries.

Exclusions: ECOB05F and ECOB06S

Prerequisite: ECOA01Y

Session: Winter Day, Winter Evening

ECOB11F/S Quantitative Methods in Economics / Staff

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

Exclusion: ANTB43; GGRB02; PSYB07

Note: MATB52 should not be taken prior to or at the same time as ECOB11.

Prerequisite: ECOA01

Session: Winter Day, Winter Evening

ECOB12S Quantitative Methods in Economics: Applications / Staff

A continuation of ECOB11 for students interested in applications of quantitative methods. Topics to be covered are statistical decision theory, multiple regression analysis and input-output tables. Calculus is strongly recommended.

Prerequisite: ECOB11; CSCA56 or CSCA58

Session: Winter Day

ECOB20F Literature of Political Economy / V.W. Bladen

A study of the classical literature of Political Economy; especially selections from the works of Adam Smith, Malthus, Ricardo, J.S. Mill.

Prerequisite: ECOA01

Corequisite: ECOB03,B07

Session: Winter Day

ECOB21S Literature of Political Economy II / V.W. Bladen

A study of classical literature of Political Economy; especially selections from the works of Marx, Jevons, Marshall and Keynes.

Prerequisite: ECOA01

Corequisite: ECOB03,B07

Session: Winter Day

ECOB31S Economics of the Public Sector: Taxation / M. Bucovetsky

This course is concerned with the revenue side of government finance. In particular, it deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Some attention will also be given to the use of government fiscal policy to regulate the level of economic activity.

Prerequisite: ECOB03

Session: Winter Day

ECOB32F Economics of the Public Sector: Expenditures / M. Bucovetsky

A study of resource allocation in relation to the public sector, with emphasis and decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.

Prerequisite: ECOB03

Session: Winter Day

ECOB35F Public Decision Making / M. Krashinsky

The economics of non-competitive decision making, cost benefit analysis, voting models, evaluation of public policy, theories of organization. Case studies of public decisions will be included.

Prerequisite: ECOA01

Session: Summer Day

ECOB41F Industrial Organization / R. Saunders

The economics of the firm in a market environment. The aim is to study business behaviour and public policy with respect to advertising, concentration, competition, rate-setting, etc.

Prerequisite: ECOB03

Session: Winter Day

ECOB45F Poverty and Income Distribution / M. Gunderson

A study of alternative theories of income distribution with application to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.

Prerequisite: ECOB03

Session: Winter Day

ECOB47S Urban Economics

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

Prerequisite: ECOB03

Session: Winter Day

ECOB51S Labour Economics / M. Gunderson

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

Prerequisite: ECOB03

Session: Winter Day

ECOB61S International Economics: Finance

Balance of payments, equilibrium and departures from it. A study of various international monetary arrangements; flexible rates; the gold standard and the dollar standard; current efforts to reform the system. The economics of international investment and its control. The effects of international investment.

Prerequisite: ECOB07

Session: Winter Day

ECOB62F International Economics: Trade Theory

An analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade. "Free trade" and protectionism. The optimum tariff; trade blocs; the economics of customs unions and regional economic integration. Canada and the development of the European Economic Community tariff bargaining. The Canada-U.S. Auto Pact.

Prerequisite: ECOB03

Session: Winter Day

ECOB66F Economic Development

A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problem of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry.

Prerequisite: ECOB03

Session: Winter Day

ECOB68S Comparative Economic Systems

A course designed to introduce students to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a theoretical perspective; the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia.

Prerequisite: ECOA01

Corequisite: ECOB03

Session: Winter Day

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 of economic change in the two countries.

Prerequisite: ECOA01

Session: Winter Day

ECOB82Y European Economic History / J. Cohen

A study of the emergence of industrial society in Europe since the Middle Ages with some emphasis on the comparative experience of Britain and other European countries and the growth of the nineteenth century world economy. Particular attention is paid to technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.

Prerequisite: ECOA01

Session: Winter Day

ECOC05S The Economics of J.M. Keynes / L. Tarshis

A study of his major works and consideration of their broad social implications. An attempt will be made to evaluate their relevance for Canada and other countries at the present time. Modern criticisms of Keynes will be analysed.

Prerequisites: ECOB03, B07

Session: Winter Day

ECOC07F The Economics of Karl Marx / J. Cohen

A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.

Exclusion: (ECOB05)

Prerequisite: ECOB03, B07

Session: Winter Day

ECOC11F Supervised Reading / Staff

Prerequisite: Permission of Instructor

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

ECOC12S Supervised Reading / Staff

Prerequisite: Permission of Instructor

Session: Winter Day, Winter Evening

ECOC13F Advanced Microeconomic Theory

An upper level extension of the ideas studied in ECOB02S. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.

Prerequisites: ECOB03; ECOB07; ECOB11; MATA22 or MATA26 or MATA55

Session: Winter Day

ECOC14S Advanced Macroeconomic Theory

Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing or Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconomic models.

Prerequisites: ECOB03, ECOB07, ECOB11, MATA22 or MATA26 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 receiving 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.

Prerequisites: ECOC13 or ECOC14 or Permission of Instructor

Session: Winter Day

ECOC21F, ECOC22S Workshop in Economics ECOC23F, and ECOC24S

The workshops deal with detailed problem areas in economics. They have dealt with such subjects as natural resources, technical change, international investment, multinational firms, economic discrimination or extensions of applied topics covered at B-level.

A detailed list of the courses and instructors will be available to students from the late spring onwards.

Prerequisites: ECOB03, ECOB07, MATA22 or A26 or A55. For ECOC23F and C24S, ECOC13 or C14 will be a prerequisite.

Session: Winter Day

COURSES NOT OFFERED in 1979-80

ECOC17F

ECOC18S

ECOC19F

ECOC20S Workshop in Economics

Prerequisites: ECOB03; ECOB07; MATA22 or MATA26 or MATA55. For ECOC19F and C20S, ECOC13 or C14 will be a prerequisite.

ENGLISH

Discipline Representative: A. Thomas

English Studies encompasses English, Canadian and American Literatures and, to a limited extent, other literatures in English. Emphasis is placed on close responsive critical reading, clarity of expression, and the development of the powers of criticism and judgment.

Students who intend to specialize in English at Scarborough may take either the Specialist Certificate of the Department of English or the Scarborough Major Programme in English. The requirements for both are given below.

Note to First Year Students. A-level courses in English are designed to provide a basic training in literary criticism. For those who want a more general course in English the following B-level courses are available without prerequisite: B07, B08; B10; B11; B14; B15.

Major Programmes in English

Supervisor of Studies: A. Thomas

The student majoring in English must take at least ten and not more than fifteen courses in English in a twenty-course degree programme.

One course should be taken from each of the following categories:

- (1) ENGA04Y or ENGA08Y
- (2) ENGB01Y or ENGB02Y
- (3) ENGB09Y
- (4) ENGB10Y or ENGB12Y
- (5) ENGB04Y or ENGB17Y
- (6) ENGB05Y or ENGB06Y
- (7) The equivalent of a full course in English at the C-level

Students are encouraged to focus their attention on an aspect of English literature by taking one of the following course clusters or another grouping chosen in consultation with a faculty adviser: ENGB01/C01/C03; ENGB09/B10/B12/C04; ENGB04/B17/C05; ENGB05/B06/B16/C06; ENGB31/32/33; ENGB15/B05/B06/B32; ENGB10/B11/B12/B13/B31; ENGB14/B17/ B16/B33; ENGB07/B13/B25/B26/B27/C27; ENGB08/B24/C24; ENGB28/B29.

Specialist Certificate of the Department of English

Supervisor of Studies: A. Thomas

Students may also choose to take at Scarborough College the Specialist Programme offered by the University Department of English, which requires at least ten and not more than fifteen courses in English in a twenty-course degree programme, including one course from each of the following categories:

- (1) ENGA04Y or ENGA08Y or ENGB15Y
- (2) ENGB01Y or ENGB02Y or ENGC01Y or ENGC03Y
- (3) ENGB09Y or ENGC04Y
- (4) ENGB10Y or ENGB12Y
- (5) ENGB33Y or ENGB31Y or ENGB32Y or ENGC08Y
- (6) ENGB04Y or ENGC05Y
- (7) ENGB05Y or ENGB06Y or ENGC06Y
- (8) ENGB17Y or ENGB16Y
- (9) ENGB07Y or ENGB08Y or ENGB24Y or ENGB26Y or ENGB27Y or ENGC24Y
- (10) ENGC03Y or ENGC04Y or ENGC05Y or ENGC06Y or ENGC08Y or ENGC14Y or ENGC15Y or JHEC13Y

Major Programme in English and Classics

Supervisor of Studies: J. Kay

Twelve courses made up in the following manner:

- A. (1) One of: ENGC03Y: Studies in Middle English and Literature
ENGB02Y: Chaucer
ENGB09Y: Prose and Poetry of the English Renaissance
- (2) One of: ENGC04Y: Studies in Renaissance Literature
ENGB10Y: Shakespeare
ENGB12Y: English Drama to 1642
- (3) One of: ENGB04Y: English Poetry, Prose and Drama 1600-1800
ENGC05Y: Studies in Restoration and Eighteenth Century Literature
- (4) One of: ENGB05Y: Romantic Literature
ENGB32Y: Modern Poetry
ENGC08Y: Studies in Twentieth Century Literature
- B. Four courses in Classical Languages, at least three at B-level
- C. (1) One of: JHEC13Y: A seminar in Literary Theory and Practice
HUMB08Y: Orpheus
- (2) One of: ENGC14Y: Senior Essay
LATC01/2: Independent Studies

(The student's topic is subject to approval of the Supervisor of Studies and should bring together and integrate material from both disciplines).

D. Two further courses to be chosen from:

Courses offered in English, Latin, Greek and

- CLAB01Y: Greek and Roman Epic
CLAB02Y: Greek and Roman Tragedy
DRAB05Y: The Art and Nature of Comedy
HUMB07F/S: The Ulysses Factor

ENGA04Y English Literature: Forms and Approaches / *The Staff in English*

An introduction to the study of literature through works representative of the three major literary forms (drama, poetry, and prose fiction) and through an examination of methods that have been developed for gaining a fuller understanding of literary works.

Emphasis in the course is on the careful reading of texts representing these three forms; there will also be instruction in the writing of critical essays and in using the basic tools of literary research.

Teaching methods may vary slightly from section to section, but will include formal instruction and discussion. Methods of evaluation vary from section to section, but all students will be asked to submit written work (a total of 7,500-10,000 words) and to write a three-hour final examination.

Course Co-ordinator: H. Jackson

Session: Winter Day, Winter Evening

ENGA08Y Forms of Twentieth-Century Literature / *The Staff in English*

An introduction to twentieth-century literature through the work of influential novelists, poets and dramatists.

The course explores the novel, drama and poetry, at a time of change and experiment. Selections from the poetry of Yeats, Eliot, Frost and others (using *Modern Poems*, ed. Ellman and O'Clair); plays by at least three of: Shaw, O'Neill, Synge, Beckett, Albee and Pinter, and at least three novels from: Joyce, *A Portrait of the Artist as a Young Man*, Conrad, *Lord Jim*, Lawrence, *Sons and Lovers*, Fitzgerald, *The Great Gatsby*, Woolf, *To the Lighthouse*.

Teaching will be by lecture and discussion in classes of about thirty students meeting three times a week. Evaluation will be based on four essays (1,500- 2,000 words) or equivalent, term tests, class participation and a final exam.

Course Co-ordinator: A. Thomas

Session: Winter Day, Winter Evening

ENGB01Y Old English Language and Literature / *A.J.G. Patenall*

An introduction to the language and literature of the Old English period as represented principally in the poetry and prose of the ninth and tenth centuries. The first term will be used to develop fluency in reading the language, concentrating on the grammar and syntax of various pieces of prose and poetry. The second term will be devoted to the study of poems selected from the Exeter Book.

Session: Winter Day

ENGB02Y Chaucer / *E.P. Vicari*

A study of most of the *Canterbury Tales*, *The Book of the Duchess*, *The House of Fame*, *The Parliament of Fowls*, the Prologue to the *Legend of Good Women*, *Troilus and Criseyde*, Selected Lyrics. Background readings: *Roman de la Rose*, *Consolation of Philosophy* (in translation). Part of the course will be devoted to Middle English language and the development of English. Texts: F.N. Robinson, ed. *The Works of Chaucer*, Wright, *An Elementary Middle English Grammar*.

Chaucer's poems are studied mainly as artistic productions, but also in relation to their historical and intellectual backgrounds. The texts will be read in Middle English and some language study is involved.

Lecture-discussions and seminars.

Three 2,750 word essays, two oral presentations or the equivalent, and two one hour translation and language tests.

Prerequisite: One course in English

Session: Summer Evening

ENGB04Y English Poetry, Prose and Drama 1660-1800 / *H. Jackson, J. Kay*

The poetry, prose and drama of the Restoration and Eighteenth Century with special reference to the work of Dryden, Pope, Swift, and Johnson.

Prerequisite: One course in English

Session: Winter Day

ENGB06Y Victorian Poetry / *M. Creelman*

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

The poetry of this period reflects the spiritual crisis of the Victorian age-- the collapse of religious belief, the resulting sense of alienation and despair, and the attempt to affirm a positive vision in the face of doubt. The course concentrates upon major poems of the mid-Victorian period, many of which are long and highly philosophical and intellectual. 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 19th-century thought. Text: *Victorian Poetry and Poetics*, ed. Houghton & Stange. Assignments: Poetry analyses, Major Essay, Class Test.

Prerequisite: One course in English

Session: Winter Day

ENGB07Y Canadian Literature in English: An Introduction / J. Margeson

A study of a wide range of Canadian literature, including works by novelists, such as Callaghan, MacLennan, Laurence, Grove, Davies, Buckler; poets, such as Lampman, D.C. Scott, Klein, Pratt, Birney, Avison, Atwood; playwrights such as Ryga, writers of short stories and non-fiction prose.

The study of Canadian Literature in English will be mainly historical, from early times to the present, though most attention will be paid to literature of the twentieth century. Representative novels, poems and plays will be read by the class; however the individual student will be encouraged to read more widely in the works of particular authors through the preparation of seminar papers and essays.

Teaching method involves lectures, discussion periods, and tutorials. Evaluation will be based on written essays, seminar papers, and a final examination.

The texts will be announced.

Exclusion: ENGA05

Session: Winter Day

ENGB08Y American Literature: An Introduction / J. Kay

A study of at least twelve major works in American literature including the following: Melville, *Moby Dick*; Twain, *Huckleberry Finn*; Hawthorne, *The Scarlet Letter*; Whitman, *Selected Poems*.

Exclusion: ENGA06

Session: Winter Day

ENGB09Y Prose and Poetry of the English Renaissance 1500-1660 / J. Kay, H. Jackson

This course will explore the nondramatic literature of the English Renaissance. The first half of the course will be concerned with the age of Elizabethan optimism and expansion and with the central literary figures of Shakespeare, Spenser and Sidney. The second half will cover the later Renaissance, the seventeenth century, with its pivotal figure, Milton. Topics to be discussed include: humanism, the reformation, neo-platonism, Tudor nationalism, the rise of the scientific attitude, art and politics, the many literary genres which flourished in this period, the development of prose style and shifts in the purpose and practice of poetry. Detailed work on individual selection will be stressed in the seminars.

Prerequisite: One course in English

Session: Winter Day

ENGB10Y Shakespeare / Information will be available at a later date in Room R5008

A study of at least eleven plays.

Exclusion: ENGA02Y

Session: Winter Day

ENGB11Y Varieties of Drama / K. Theil

An introduction to a wide range of dramatic kinds. By Christmas the student will be observing and discussing, in reasonably sophisticated terms, the modes of tragedy and comedy and their varieties; by Spring the discussion will have moved, through social drama, to tragi-comedy, old and new.

We will be studying a wide range of plays, including: Sophocles, *Oedipus Rex*, *Antigone*; Aristophanes, *Lysistrata*; Marlowe, *Doctor Faustus*; Shakespeare, *King Lear*, *Twelfth Night*; Jonson, *Volpone*; Chekhov, *The Cherry Orchard*; Synge, *The Playboy of the Western World*; Pinter, *The Homecoming*. A full reading list will be available in R5008 in May.

Lectures and discussion periods may be supplemented with play-readings and short productions, if interest warrants. Evaluation will be based on two major essays, a term test, a final examination, and class presentations and participation.

Session: Winter Evening

ENGB12Y English Drama to 1642 / J.M.R. Margeson

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.

Lectures and discussion periods are supplemented by seminars, and if interest warrants, the production of a short play. Evaluation will be based on two major essays, two in-class reading tests, and two seminar papers or participation in productions. 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.

Prerequisite: One course in English

Session: Winter Day

ENGB14Y Varieties of Fiction / Information will be available at a later date in Room R5008

An analytical study of prose fiction from various periods, aiming to develop a familiarity with the varieties of prose fiction and a capacity for reading individual works critically.

Session: Winter Day

ENGB15Y English Poetry / S. Namjoshi

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

Session: Winter Day

ENGB16Y Fiction 1832-1900 / A. Thomas

Intermediate level, part of the English Major programme; accessible to all students from other disciplines with an interest in the period or the form of the novel.

The subject of study is at the English novel at its most assured and fruitful period of creation. The reading list will be: C. Bronte, *Jane Eyre*, E. Bronte, *Wuthering Heights*, Dickens, *Hard Times*, *Great Expectations*, Thackeray, *Vanity Fair*, Eliot, *Middlemarch*, Hardy, *Far From the Madding Crowd*, *The Woodlanders*, *Jude the Obscure*, Moore, *Esther Waters*, Conrad, *The Secret Agent*. Students should read these novels before the course begins.

There will be two lectures a week, with class discussion. Evaluation is based on one 2,000-word essay per term, and short papers as required; a first-term test and a final exam will be given.

Prerequisite: One course in English

Session: Winter Day

ENGB17Y Fiction before 1832 / W. J. Howard

At least 12 works, including one or more by each of Richardson, Fielding, Sterne, Austen and Scott.

Prerequisite: One course in English

Session: Winter Day

ENGB26Y Canadian Poetry in English / S. Namjoshi

Poets of the nineteenth and twentieth centuries, including: Lampman, Pratt, F.R. Scott, A.J.M. Smith, Birney, Klein, Avison, Souster, Purday, Atwood.

Prerequisite: One course in English

Session: Winter Day

ENGB27Y Canadian Fiction in English / O.H.T. Rudzik

A study of prose fiction in Canada from its beginning to the present.

Prerequisite: One course in English.

Session: Winter Evening

ENGB32Y

Modern Poetry / E.W. Denville

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

Prerequisite: One course in English

Session: Winter Day

ENGB33Y Fiction 1900-1950 / M. Creelman

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

The early 20th century was a period of innovation and experiment in the novel. Through a detailed study of about 12 major works, this course examines the relationship between new concepts in philosophy and psychology and new ways of writing novels. Attention will be given to important debates between novelists concerning fictional form, and certain readings will be assigned in the theory of the novel. Texts include James, *The Ambassadors*; Bennett, *The Old Wives' Tale*; Conrad, *Nostromo*; Ford, *The Good Soldier*; Joyce, *A Portrait...*; Lawrence, *Women in Love*; Woolf, *To the Lighthouse*; Forster, *A Passage to India*; Faulkner, *Absalom, Absalom!* Students are urged to do some reading in advance and use editions listed in the Bookstore.

Evaluation will be based on two seminars, two tests, and two essays.

Prerequisite: One of ENGA04, ENGB14, ENGB16, ENGB17, ENGB27

Session: Winter Day

ENGC06Y Studies in Nineteenth Century Literature / H. Jackson

An advanced seminar treating special topics in nineteenth century literature.

In 1979-80, the topic for the course will be "the Romantic context": in seminar sessions, students will study major novels, poems, prose texts and possibly plays of the early nineteenth century in the lively context of the political, social, and literary debate from which they emerged and to which they contributed.

Note: Students who have studied eighteenth-century literature (ENGB04 or ENGB17) may be admitted with the permission of the instructor.

Prerequisites: Three English courses, one of which must be ENGB05, ENGB06, or ENGB16

Session: Winter Day

ENGC08Y Studies in Twentieth Century Literature / K. Theil

An advanced seminar treating special topics in twentieth century literature. Limited enrolment: 15.

In 1979-80, the topic for the course will be "Chaos Contained". Taking Eliot's depiction of modern man in "The Waste Land" as our point of departure, we will be studying recurrent concerns and techniques in the work of D.H. Lawrence, James Joyce and Virginia Woolf. Texts will include *The Rainbow*, *Women in Love*, *A Portrait of the Artist As a Young Man*, *Ulysses*, *To the Lighthouse*, *The Waves*.

Students will be responsible for leading seminar discussions once each term, and writing one major essay as well as doing some shorter assignments.

Prerequisites: Normally three English courses; at least one of which must be: ENGA08/ENGB31/ENGB32/ENGB33

Session: Winter Day

ENGC10F Problems in Later Shakespeare / A.J.G. Patenall

Textual and editorial, as well as aesthetic and dramatic problems in later Shakespeare.

Limited Enrolment: 15

Primary texts are *Pericles*, *Cymbeline*, *A Winter's Tale* and *The Tempest*; the New Arden edition of each is preferred. Each student will develop a topic during the term which will be reported on in seminar, before being presented as a written paper at the end of the term. The group will be travelling to Stratford to see Ustinov's *King Lear* in October. An annotated Reading List will be available in May.

Prerequisites: Three English Courses, of which one must be ENGB10 or ENGB12.

Session: Winter Day

ENGC11S Paradise Lost / A.J.G. Patenall

A close reading of Milton's poem. Limited Enrolment 15

Topics for discussion in the weekly meetings will be distributed; students will be expected to develop and complete one major essay.

Prerequisite: Normally B-standing in three English Courses

Session: Winter Day

ENGC14Y Senior Essay

A scholarly project, chosen by the student, approved by the faculty in English and supervised by one faculty member. Arrangements with the faculty in English and the supervisor must be made by the student before the end of the pre-registration period in the spring.

The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed: By the last day of Term the previous Spring a brief statement of the area of the project, signed by the Supervisor is to be sent to Professor Alan Thomas. By November 15th a more specific statement of the project is to be sent to Prof. Thomas including the exact title of the proposed study, and a short description of its subject and method. After the topic has been approved by the Department, a second reader will be appointed.

Prerequisites: Open only to students completing the last five courses for the twenty-course degree who have at least three courses in English, at least one at B-level.

Session: Winter Day

ENGC15Y Comprehensive Examinations / A. Thomas

English C15Y counts as a full course in the student's programme: It will take the form of a reading course under the direction of an adviser.

Each student will design his course in consultation with his adviser. In order to identify areas where more reading may be required and possible areas for special study, a checklist of major authors is made available to students in the February of their Third Year. It is not assumed that the student, when he presents himself for examination, will have achieved complete mastery of all the authors mentioned. On the other hand, the list, despite its length, is selective rather than exhaustive and is therefore not intended to set rigidly prescribed limits on the reading for the course. The student in his fourth year will already be familiar with many of the authors through his work in other courses, and the use he makes of the list during that year (and in the summer preceding it) will depend on his own interests, his previous studies, and discussion with his adviser.

Prerequisites: Normally three English courses; at least one at B-level

Session: Winter Day

COURSES NOT OFFERED in 1979-80**ENGB05Y Romantic Poetry**

Prerequisite: One course in English

ENGB13F/S Drama in English Canada: 1920-1970

Prerequisite: One course in English

ENGB25F/S The Canadian Short Story**ENGB28Y Contemporary Literature in English: West Indies, India, Africa and Australia**

Prerequisite: One course in English

ENGB29Y African Literature in English

Prerequisite: One course in English

ENGB31Y Modern Drama

Prerequisite: One course in English

ENGC01Y Advanced Studies in Beowulf and Other Old English Poetry

Prerequisite: ENGB01

ENGC03Y Studies in Middle English Language and Literature

Exclusion: ENGB03

Prerequisite: Normally three English courses, one of which must be: ENGB01, ENGB02, ENGC01

ENGC04Y Studies in Renaissance Literature

Prerequisite: Normally 'B' Standing in ENGB09 and in two other courses in English.

ENGC05Y Studies in Restoration and Eighteenth Century Literature

Prerequisite: Normally three courses in English, one of which must be: ENGB04, ENGB17

Limited enrolment: 15 per section

JHEC13Y	A Seminar in Literary Theory and Practice <i>Exclusions:</i> (ENG13); (HUMC02); (HUMC13) <i>Prerequisite:</i> Normally three English courses; at least one at B-level <i>Limited enrolment:</i> 30
ENG18F/S	The Shorter Fiction of D.H. Lawrence <i>Prerequisite:</i> Normally three English courses; at least one at B-level
ENG22F/S	Contemporary Press <i>Prerequisite:</i> Normally one B-level English course <i>Limited enrolment:</i> 30
ENG24Y	Topics in American Literature <i>Prerequisite:</i> One of ENGA06; one other B-level English course
ENG26Y	Ezra Pound <i>Prerequisite:</i> Normally three English courses; at least one at B-level <i>Limited enrolment:</i> 15

FINE ART

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

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

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

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

Since reading ability of at least one foreign language is necessary in many advanced fields of Art History, students should try to improve their language skills either through taking courses, or through private study.

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

Recommended Courses outside the Discipline:

HISA01Y	The European World: An Introduction to History
HUMB08Y	Orpheus: The Quest of Beauty
HUMB22F	The Age of Pericles
HUMB23S	The Age of Augustus
HUMB25F	The Age of Homer
HUMB71Y	Introduction to Cinema
PHLB03F	Philosophy and Art

Major Programme in Fine Art

Supervisor of Studies: M. Gervers and D. Holman

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

1. One and one half full-course equivalents chosen from the Classical and Medieval periods.
2. One and one half full-course equivalents chosen from the Renaissance and Baroque periods.
3. Two full course equivalents chosen from Modern and Canadian Art.
4. Five full studio courses (or equivalent) to be chosen in consultation with the Studio instructors.

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

Major Programme in Fine Art History

Supervisor of Studies: M. Gervers

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

1. FARA01Y or FARA03Y
2. One from each of the following areas: Classical, Medieval, Renaissance, Baroque, Modern I: 1775-1905 Modern II: 1905 to the present and Canada/U.S.A.
3. Two full-course equivalent C-level courses in Art History.
4. One extra course on B or C level in any area of Art History.

Major Programme in Fine Art Studio

Supervisor of Studies: D. Holman

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

1. FARA70F and FARA71S
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; FARB78Y; FARB83F/S; FARB85Y; FARB90F/S; FARB91F/S
4. Two C-level full course equivalents.

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

If entry to graduate school or type "A" certification in the Faculty of Education are to be sought students are strongly advised to balance their Fine Art Studio with the following Art History courses: two full course equivalents in the History of Art.

The following courses are highly recommended for students majoring in Fine Art Studio: PHLB03F; PSYB50F, SOCC18S.

FARA03Y Aspects of Western Culture from the Renaissance to Modern Times / R. Siebelhoff

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

Examples from the major artistic styles (Renaissance, Baroque, Modern Movements, etc.) will be analysed from different points of view such as form, content and meaning. Aspects of the traditional values and/or the innovative nature of the works or art will be discussed. Preference will be given to those monuments which present the different artistic media as a unit, such as St. Peter's Church in Rome or the Palace of Versailles and its gardens. Two hours of lectures per week with class participation encouraged. Term examination (30%) and two research papers (35% each). Bibliography will be provided.

Session: Winter Evening

FARA70F Two and Three Dimensional Design / J. Hoogstraten

FARA70 and FARA71 are introductory to all studio courses; their primary aim is to help students cultivate a familiarity with basic terms, concepts and principles in visual design. Limited enrolment: Three groups of 20 each.

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

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

Exclusion: (FARB10)

Session: Winter Day, Winter Evening

FARA71S Colour / J. Hoogstraten

An analysis of the properties, perception and interaction of colour within the context of the fine arts. Limited enrolment: Three groups of 20 each.

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

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

Exclusion: (FARB10)

Session: Winter Day, Winter Evening

FARB04F Archaic Greek Sculpture (650-480 B.C.) / M. Shaw

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

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

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

Session: Winter Day

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

A study of the evolution of Greek Sculptural forms (statues, architectural and other reliefs) from the rise of the classical style through its maturity.

This course follows the technical and aesthetic developments of Greek Sculpture during its Classical phase (480-300 B.C.). Sculptural activity will be viewed as far as possible within its cultural context. Thematically and chronologically, this course is a sequel to FARB04 Archaic Sculpture, but can still be taken independently. The sculptures examined consist of statues in marble and bronze, funerary reliefs, as well as architectural sculpture which decorated the exterior of most Greek temples and some other important buildings. There will be a two-hour weekly session during which representative sculptures will be analyzed technically and stylistically by means of lectures illustrated by slides.

Session: Winter Day

FARB22Y The Arts in Northern Europe ca. 1400-1500 / R. Siebelhoff

A study of the "Northern Renaissance" concerned with the emergence of the Burgundian Netherlands as a cultural unit. The course will emphasize the development of painting from the Van Eycks to Bosch against a background of patronage from court and city.

The first few lectures will deal with the geographical and topographical situation of the Burgundian lands around 1400 and will proceed with a historical survey of the area during the 15th 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 preparing the stage for the panel painters. The attitude towards the material will be problem oriented evaluating the attributions on documentary, stylistic and iconographic grounds while attempting to present the works of art of the different artists in an acceptable chronological order. Two hours of lectures with visits to A.G.O., R.O.M. Examination (30%), two term papers (35% ea.).

Session: Winter Day

FARB23F Early Renaissance in Florence, 1400 to 1450 / G. Scavizzi

A survey of the major achievements of Florentine artists, along with a brief introduction to Renaissance culture.

The course is designed for Art History students as well as for the general student interested in the subject, i.e. students in History or in the European literatures. Two hours of classroom lectures per week.

The evaluation based on one paper and one examination (at least 30%). Bibliography will be provided.

Session: Winter Day

FARB24Y Medieval Art, IV to XIV Century / M. Gervers

A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will involve consideration of architecture, sculpture, painting, illumination and the minor arts.

The object of this course is to familiarize students with European artistic traditions from their origins in an early Christian, Mediterranean context, through their development under the influences of classical, Byzantine, 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. Readings are from E. Kitzinger, *Early Medieval Art*; R. Krautheimer, *Early Christian and Byzantine Architecture*; O. Grabar, *The Formation of Islamic Art*; R.L.S. Bruce-Mitford, *The Sutton Hoo Ship-burial*; O. von Simson, *The Gothic Cathedral*; C. Cutler, *Northern Painting*; S. Stubblebine, *Giotto: the Arena Chapel Frescoes*. Term tests 50%, paper 30%, class 20%.

Session: Winter Day

FARB32F Studies in the High Renaissance - Michelangelo / G. Scavizzi

A survey of his activity in architecture, sculpture and painting. Study will focus on major cycles and monumental works like the Sistine ceiling, the Tomb of Julius II, the Medici tombs.

Session: Winter Evening

FARB36F Expressionist Trends in Western Art from Van Gogh to Jackson Pollock / Information will be available at a later date in Room R5008

An examination of such major figures among so-called Expressionist painters as Van Gogh, Ensor, Munch, The Fauves, Kirchner, Nolde, Kandinsky, Gorki and Pollock.

These painters' work will be studied roughly chronologically, beginning with the late nineteenth century. Classes will meet for a two-hour slide lecture each week. Students will write one essay and one examination, the relative importance of each to be determined at the beginning of the term. Bibliography will also be discussed early in the term.

Session: Winter Day

Exclusion: FARB39, FARB17

FARB45S Rembrandt / R. Siebelhoff

The goals of the course are to present the development of Rembrandt's personality and work against a panoramic background of Dutch seventeenth century civilization.

The first few lectures will focus on the Dutch society in which Rembrandt lived. Historical and socio-religious aspects of the society will be highlighted. Rembrandt's background at Leyden, his family and his training will be discussed next. After the artist's move to Amsterdam we will concern ourselves with his patrons, his initial popularity and the decline of interest in his work. Work from all periods of Rembrandt's life will be analyzed, paintings, drawings, as well as etchings. Two hours of lectures per week with class participation encouraged. Use of slides and films, visits to the A.G.O. and hopefully other collections. Term examination (35%), one research paper. Bibliography will be provided.

Session: Winter Day

FARB51F Impressionism / R. Siebelhoff

The objective of the course is to present the development of Impressionism and to explain the impact it had on Modern Art.

We will commence with an exploration of 19th c landscape painting thus establishing the main sources of Impressionism. Thereafter we will focus on those aspects of the work of Manet and Degas which are essential to the movement. Of equal importance are contemporary theories of colour. The background of the individual members of the Impressionist group will be traced until the first Impressionist exhibition. The exhibitions between 1874-86 will be discussed, followed by a selective study of the artists during the last decade of the century.

Visits to the A.G.O. and the Gallery at Buffalo. Term Examination (35%), one research paper. Bibliography will include John Rewald, *The History of Impressionism*, N.Y.: MOMA, 1946.

Session: Winter Day

FARB52S Cubism and Related Movements in Painting / *Information will be available at a later date in Room R5008*

Investigation of the origin, development and mutual interaction among such movements as Cubism, Futurism, Orphism and *Der Blaue Reiter*. The legacy of Cubism and its offshoots in Dada, Abstract Art and Surrealism will also be discussed. Particular stress will be placed upon the career of Pablo Picasso. The course is taught in weekly two-hour slide lectures. Bibliography and method of evaluation will be determined at the beginning of the course. FARB28 is recommended but not required.

Session: Winter Day

FARB54F New York in the 20th Century / *Information will be available at a later date in Room R5008*

The course will survey the art scene in New York as it 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.

Emphasis will be placed on New York painting and sculpture from this period. Classes will meet in a two-hour slide lecture each week; films on New York artists will be used when available. There will also be a trip to New York City if this can be arranged. Students are to write one essay and one examination, the relative importance of each to be decided at the beginning of term.

Session: Winter Day

FARB61Y The Canadian Landscape / *Information will be available at a later date in Room R5008*

The course will be a detailed study of how Canadian artists' perceptions of the landscape as well as their means of rendering them changed during the period 1850-1950.

Art from all regions of Canada will be considered in two-hour weekly slide lectures, with individual or class visits to relevant exhibitions within travelling distance. Bibliography and method of evaluation will be determined at the beginning of the course.

Session: Winter Evening

FARB62S Recent Canadian Art / *Information will be available at a later date in Room R5008*

The course will introduce the work of major artists, chiefly painters and sculptors, from the last three decades.

In a two-hour session each week the class will examine paintings and sculpture by Canadian artists of the 1950's, 60's and 70's. A number of interviews with artists will be used in conjunction with slides of their work. There will also be individual or class visits to relevant shows in the Toronto area. Bibliography for the course will consist mostly of exhibition catalogues, and will be discussed at the beginning of term.

Session: Winter Day

FARB70F Introductory Drawing / *J. Hoogstraten*

The 'scribble'; iconography of expressive drawing. Students are asked to consider what is intrinsic to the act of drawing, the media and tools traditionally and presently used, and artist's graphic intentions. Limited enrolment: 20.

An introductory course for students wishing to explore the techniques and concepts of 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. Evaluation is based on a final portfolio, participation in class and the sketchbook.

Prerequisites: FARA70; FARA71 or permission of instructor

Session: Winter Day

FARB72F Introduction to Printmaking (Screen Process Printing) / *D. Holman*

Materials and Methods in edition printing. Limited enrolment: 15.

This course is designed to introduce the student to the Art of Printmaking through the use of the Silk Screen Medium. The course will include lectures and demonstrations of the Silkscreen, Etching, and Lithographic techniques of Printmaking. The Student will be expected to conceive and print several Serigraphs. Trips to public and private galleries to view prints will be mandatory. The class will be held three hours every week and evaluation will be based on participation, finished work and written analyses of prints viewed at the galleries visited. Lab Fee \$30.00.

Prerequisites: FARA70; FARA71

Corequisite: FARB70

Session: Winter Day

FARB74S Intermediate Drawing / *D. Holman*

An investigation of the creative act of drawing and its use in the development of the artist's personal visual perception. Limited enrolment: 20.

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. Evaluation will be based upon the final portfolio submitted. The final portfolio must include all the drawings done for projects, drawings done from the models, and the sketchbook(s).

Prerequisite: FARB70

Session: Winter Day

FARB75Y Introduction to Painting / *J. Hoogstraten*

An introduction to principles and techniques of painting. Emphasis is on understanding a medium's special characteristics so that artistic expression may be enhanced. No previous experience necessary in all the media to be investigated, as the purpose of this course is to encourage exploration and experimentation in different media. Limited enrolment: 20.

An introductory course designed to expand the student's concepts of paint and painting. Three hours per week of studio work including group and individual critiques, plus trips to art galleries. Evaluation is based on class participation, studio work and work done outside of the studio.

Exclusion: (FARB71)

Prerequisites: FARA70; FARA71; Permission of Instructor

Session: Winter Day

FARB76A Intermediate Painting I / *J. Hoogstraten*

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

Session: Summer Day - Summer Arts Programme

(See Special Programmes Brochure available in Registrar's Office, Student Services, and Divisional Office.)

FARB77B Intermediate Painting II / *J. Hoogstraten*

A course designed for the student already competent in the use of materials. Limited enrolment: 15.

Session: Summer Day - Summer Arts Programme

(See Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office.)

FARB82F Introduction to Lithography / *D. Holman*

An introduction to stone lithography edition printing involving a detailed investigation of materials and techniques. Limited enrolment: 10.

The content of the course will include working demonstrations and lectures explaining and demonstrating the artistic nature of Stone Lithography. The student will be expected to draw and execute several Lithographs. The method will be three hours per week of Studio work. The mark will be based upon an evaluation of the actual work completed in the Studio. Lab Fee \$30.00.

Prerequisites: FARA70; FARA71; FARB72 or Permission of Instructor

Session: Winter Day

FARB83S Intermediate Lithography / *D. Holman*

An extension of FARB82. Limited enrolment: 10.

The objective of the course is to further explore the art of Stone Lithography in multi-colour printing. The content method, and evaluation is the same as FARB82F. Lab Fee \$30.00.

Prerequisite: Normally 'B' standing in FARB82

Corequisite: FARB74

Session: Winter Day

FARB84A Introduction to Etching / *O. Tamasaukas*

An introduction to Etching and relief printing exploring the use of materials and techniques involved in the process of creative 'Fine Art Printing'.

Session: Summer Evening - Summer Arts Programme

(See Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office)

FARB85B Intermediate Etching / O. Tamasaukas

A studio course designed to expand the student's knowledge of etching and relief printing.

Session: Summer Day - Summer Arts Programme

(See Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office)

FARB90F**FARB91S Supervised Studies in Studio: Intermediate Level / D. Holman, J. Hoogstraten**

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. These courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to meet with instructors on a regular basis for critiques of work in progress. Limited enrolment: 3.

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.

Prerequisites: FARA70, FARA71 and permission of Instructor which is based on the evaluation of proposal and/or portfolio

Session: Winter Day

FARC01F Readings in Art History: Marxism and the Arts / G. Scavizzi

A discussion of the work of modern authors who have written on Art History adopting marxist ideas.

This course deals with problems of Art criticism. It is quite independent from other existing courses as it deals with methodology and not with specific areas of Art History.

Two hours of lectures per week. Evaluation will be based on one essay paper or an oral report and one examination (at least 30%). Bibliography will be provided.

Prerequisite: One B level course in the Humanities

Session: Winter Day

FARC02F**FARC03S****FARC04Y Supervised Reading / Interested students should contact Professor Gervers**

Prerequisites: At least one B-level course in Art History; permission of Instructor must be obtained by first week of classes. A reading knowledge of a second language is recommended.

Session: Winter Day

FARC21Y Advanced Studio: Individual Study in Painting / D. Holman, J. Hoogstraten

This course is only for students who would like the opportunity to develop an already maturing painting ability. Students must convince the instructors that they are able and willing to assume the responsibility to carry this course without intensive guidance. Limited enrolment: 5.

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.

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

Session: Winter Day

FARC22Y Advanced Studio: Individual Study in Printmaking / D. Holman

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

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

Session: Winter Day

FARC24F**FARC25S Independent Studies in Studio: Advanced Level / D. Holman**

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

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 instructors.

Prerequisites: 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

COURSES NOT OFFERED in 1979-80**FARA01Y**

The Making of Art

FARB01F/S

Romanesque Art

Corequisite: FARA04

FARB03Y

Renaissance in Italy

Corequisite: FARA04

FARB13F

Art of the First Half of the Nineteenth Century

Prerequisite: FARA04

FARB14S

Art of the Second Half of the Nineteenth Century

Prerequisite: FARA04

FARB17Y

Baroque Painting in The Netherlands

Prerequisite: FARA04

FARB20Y

The Arts in Canada: 1670 to Present

Corequisite: FARA04

FARB25F/S

High Gothic Architecture

Corequisite: FARA04

FARB28Y

Art of the Twentieth Century

Corequisite: FARA04

FARB29F/S

Early Christian and Byzantine Art

Corequisite: FARA04

FARB30F

Crete and Mycenaean World

Prerequisite: One Fine Art History term course or GRHB01

FARB35F/S

Gothic Painting

Corequisite: FARA04

FARB40F

Monuments and Topography of Republican Rome 509-31 B.C.

Prerequisite: FARA04 or GRHB03

FARB41S

Monuments and Topography of Imperial Rome 31 B.C.-337 A.D.

Prerequisite: FARA04 or GRHB03

FARB42Y

Painting in Ancient Egypt, Prehistoric and Classical Greece (Fourth Millennium to end of First Century B.C.)

FARB43Y

Renaissance in Europe 1400-1600

Exclusion: FARB03, FARB26

Prerequisite: FARA04

FARB44Y

Baroque in Europe, 1600-1750

Exclusion: FARB39, FARB17

Prerequisite: FARA04

FARC09F

Studies in the High Renaissance I

Prerequisite: FARB03Y or FARB26Y

Corequisite: FARB43Y

FARC10F

Classicism in Seventeenth Century Art

Prerequisite: FARB27

- FARC14F** **Art Around 1900**
Prerequisites: FARB13F and FARB14S. A reading knowledge of French or German is recommended but not required.
- FARC19F** **'Realism' in XVII Century Painting**
Prerequisite: FARB27 or FARB17

FRENCH

Discipline Representative: C. Jennings

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

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

- The regular programme*, offered during the Winter session, which provides language instruction on a three to four hour per week basis (A00Y, A01Y, B01Y and C01Y);
- The intensive programme*, available in both Fall and Spring terms, which provides intensive instruction using innovative approaches. In this program, a full credit course may be taken during one term (A00A, A01A and B, B01B). This program is designed to allow students to reach rapidly a level of competence in French which will facilitate further university studies;
- The immersion programme* available in the Summer term. This program is described in detail in the College Summer Programmes Calendar.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Major Programme in French are invited to consider taking both FREA01 and FREA02 in their first year; or, if they enrol in the intensive programme, to combine FREA01A, FREA01B and FREA02Y. Then, they may choose courses from within the following groups: (1) the main trends of French and French - Canadian literature; (2) the genres: poetry, theatre and novel in various periods; (3) advanced language; (4) language practice courses.

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

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

Major Programme in French

Supervisor of Studies: W.J. Bancroft

Students should complete at least ten full course equivalents, including

- the sequence FREA01, B01, C01, except where exemption is granted for special proficiency
- one full course equivalent in the area of French linguistics, stylistics, translation or history of the language
- three full course equivalents in literature, at least one of which should deal with a period prior to 1800 and one with a period after 1800
- four full course equivalents at C-level (or from the 300 and 400 series courses offered on the St. George Campus)
- It is recommended that the student include in his programme one full course equivalent from the FREC02-C07 and C90 series (Supervised Reading) involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2), (3) and (4) above).

The following may not count toward a Major Programme:

- more than two A-level FRE courses
- any of FREA00, A11, A12, B11, B12, B14
- more than two courses from the series FRE425 to 469, offered on the St. George Campus

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

FREA00A **Introductory French / W.J. Bancroft and Staff**

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

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

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

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

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

Prerequisite: Permission of instructor

Session: Winter Day

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

FREA00Y **Introductory French / F. Mugnier and Staff**

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

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

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

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

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

Prerequisite: Permission of Instructor

Session: Winter Day

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

FREA01A/B **Preparation for University French Studies / J. Kirkness (A01A), C. Jennings (A01B)**

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

This is an intensive course designed to bring students to the level of entering B01 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation.

The class meets six hours per week for grammar review, vocabulary-building exercises, reading and discussion of texts, debates and other exercises that class and instructor may choose to devise. There are also two laboratory periods a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation. For students planning to major in French, FREA02 is recommended.

Prerequisite: Grade XIII French or FREA00 or equivalent.

Session: A01A Fall Day, A01B Spring Day

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

FREA01Y Preparation for University French Studies / C. Jennings and Staff

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

The class meets three hours per week for grammar review, vocabulary building exercises, reading and discussion of texts representing various styles and cultures, composition, debates and exercises that class and instructor may choose to devise. There is also one laboratory period a week specifically designed for oral-aural practice. A final exam accounts for one-third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.

Please note that the opportunity is provided to take this course in an intensive version either in the Fall or Spring during the day (see FREA01A or B). For students planning to major in French, FREA02 is recommended.

Prerequisite: Grade 13 French or FREA00 or equivalent.

Session: Winter Day, Winter Evening

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

FREA02Y Introduction to Literary Analysis / J. Curtis

This course introduces the student 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.

A02 is intended to prepare the student for more advanced study in any field of French 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.

There will be at least one written assignment each term and two term-tests, the weighting of assignments to be determined in consultation with students.

Corequisite: FREA01

Prerequisite: Grade 13 French or equivalent

Session: Winter Day

FREB01B Language Practice / Information will be available at a later date in Room H332A

A continuation of first-year language 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 C01 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation.

This course is concerned with the development of fluency, accuracy of expression, and style. Classes meet six hours per week, and there are two laboratory periods. The titles of required textbooks will be available at the College Bookstore after June 1, 1979.

The Final Mark is based on a number of written assignments, oral contributions, a mid-term test, and a Final Examination, the weighting of these elements to be determined by consultation.

Prerequisite: FREA01

Session: Spring Day

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

FREB01Y Language Practice / Information will be available at a later date in Room H332A.

A continuation of first-year language 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 and there is one laboratory period.

Please note that, for the first time in 1979-80, the opportunity is provided to take this course in an intensive version in the Spring term (see B01B). The titles of required textbooks will be available at the College Bookstore after June 1, 1979.

The Final Mark is based on a number of written assignments, oral contributions, a mid-term test and a Final Examination, the weighting of these elements to be determined by consultation.

Prerequisite: FREA01

Session: Winter day

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

FREB04F Intermediate Conversation I / Information will be available at a later date in Room H332A.

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

The main objective of this course is to free students of their inhibitions when it comes to communicating orally in French. As many opportunities as possible will be provided to practice the language and develop a mastery of relevant vocabulary so as to acquire a reasonable degree of confidence when speaking about everyday life matters and contemporary topic.

One hour weekly for lecturing, vocabulary building and testing; two to three hours weekly for oral practice. Students should arrange to have no other courses scheduled during the times allotted for this course on the time-table. Participation and tests: 40%; oral project: 30%; final oral exam (fluency, quality of vocabulary and grammar, pronunciation: 30%.

Prerequisite: FREA01

Session: Fall Day

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

FREB05S Intermediate Conversation II / Information will be available at a later date in Room H332A.

A continuation of FREB04.

For course description, see FREB04F

Prerequisite: FREA01

Other Recommended Courses: FREB01 and, preferably, FREB04F.

Session: Spring Day

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

FREB20Y French Civilization: The Vision of Man / C. Evans

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

Films and slides will be shown to supplement and illustrate the lectures. Each student will be given the opportunity to concentrate on a specialized topic such as "France since 1945", "The history of education in France", "Women in France", "French films" etc.

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

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

Prerequisite: FREA01

Session: Winter Day

FREB24Y French Thought and Literature in the Age of Enlightenment (1715-1789) / J. Curtis

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

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

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

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

Prerequisite: FREA01

Session: Winter Evening

FREB26Y The Romantic Current in French Literature / C. Jennings

Analysis of *romanticism* in 19th century literature, with attention to the main writers of the period.

Some introductory lectures will be devoted to exploring the origins of French 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 19th Century.

The course will meet for two hours per week. Evaluation will be based on four essays, two term-tests, two oral presentations and class participation. A complete bibliography will be distributed on the first day of class.

Prerequisite: FREA01

Session: Winter Day

FREB36S French-Canadian Novel to 1945 / L.E. Doucette

A study of French-Canadian novels from the mid-19th century to the end of the Second World War. Course intended for the general student of French, as well as for specialists. Apart from introductory lectures during the first week or two of classes, this course follows a discussion/seminar format.

This course is intended for the general student of French as well as the specialist. Its objective is to familiarize the student with major developments in prose fiction in French Canada in the period 1837-1945. Of necessity, it deals also with major historical, social and political developments in that period as well, so some knowledge of Canadian History would be advantageous.

Apart from the first few meetings, the course will be conducted as far as possible in a discussion-seminar format. Methods of evaluating student performance will be established by individual contract within the first week of classes. Requirements will include at least one essay, undertaken in consultation with the instructor. Barring problems with supply, texts will be: R. Girard, *Marie Calumet*; Louis Hémon, *Marie Chapdelaine*; A. Laberge, *La Scouine*; Ph. Panneton, *Trente arpents*; G. Roy, *Bonheur d'occasion*. Very useful background reading: R. Robidoux et A. Renaud, *Le romancanadien-français*; J. Urbas, *From Thirty Acres to Modern Times*.

Prerequisite: FREA01Y

Session: Summer Day

(see SLI Special Programmes Brochures available in Registrar's Office, Student Services, and Divisional Office).

FREB39S Workshop in Modern French Theatre / Information will be available at a later date in Room H332A.

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: FREB01 or equivalent language ability.

Session: Summer Day

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

FREB40F The Poetry and Prose of the Golden Age / G. Trembley

A study of non-dramatic literature of the 17th Century, with attention to works by Malherbe, Descartes, Pascal, Boileau, La Fontaine, La Bruyère, La Rochefoucauld, Mme. de Lafayette and others.

A seminar course on some of the major writers of 17th century France, excluding those whose medium was the stage (see FREB41S).

The authors studied will include, among others, Malherbe, Descartes, Pascal, Boileau, La Fontaine, La Rochefoucauld, La Bruyère, Madame de Lafayette, etc. There will be two compositions and one term test. Active participation in the classroom (discussions, explications de textes, etc.).

Prerequisite: FREA01

Session: Fall Day

FREB41S The Playwrights of the Golden Age: Corneille, Molière and Racine / G. Trembley

A study of the development of classical tragedy and comedy in the 17th century, with emphasis on themes and dramatic structure as seen through the major plays of the period.

A textual study of a few selected plays by Corneille, Molière and Racine, considered both as works of art (aesthetics) and as the literary expressions of a specific civilization (social history).

There will be two compositions and one term test. Active participation in the classroom (discussions, explications de textes, etc.). FREB40F is the recommended companion course.

Prerequisite: FREA01

Session: Spring Day

FREB42F General History of the French Language / C. Evans

Topics will be chosen for study from the general history of French, from its origins in Latin to the present, including reference to social and regional variations of the standard language as well as the influence of other languages on its development. Students specializing in French language or literature who select this course are urged to take FREB43 as a companion course.

The changes in phonology, orthography, morphology and syntax and vocabulary will be covered. Examples will be given from a variety of short texts.

The class will meet twice a week for the presentation and discussion (both in French) of the topics chosen for study. Texts will be Glanville Price, *The French Language, Present and Past*, Wm. Clowes and Sons, London, 1971 and Jacques Chaurand, *Introduction à l'histoire du vocabulaire français*, Bordas, Paris 1977.

Evaluation will be based on one research paper, at least one oral presentation, a mid-term and a final examination.

Prerequisite: FREA01

Session: Fall Day

FREB43S The French Language in Canada / C. Evans

Attention will be given primarily to the expansion of French abroad, special emphasis being laid on the language in North America, particularly Canada. Students specializing in French language or literature who select this course are urged to take FREB42 as a companion course.

The history of French in Canada. How Canadian French now differentiates itself from Standard French, particularly in phonology and vocabulary. Attention will be given to the variations within Canadian French.

The class will meet twice a week for the presentation and discussion (both in French) of the topics chosen for study. Texts will be *Langue française* no. 31 (Sept. 1976), "Le français au Québec". Vincent Lucci, *Phonologie de l'Acadien*, Didier, Montreal, 1973.

Evaluation will be based on one research paper, at least one oral presentation, a mid-term and a final examination.

Prerequisite: FREA01

Session: Spring Day

FREB48Y Theoretical and Practical Phonetics / G. Trembley

This course will comprise the following: (1) general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation; (2) analysis and discussion of recordings used in the language laboratory, with use of tapes in the classroom; (3) audition of a wide range of recorded materials; genres, styles, social and regional variants.

(1) Study of the basic principles of French phonetics.

(2) a) Analysis of various types of native speech with the use of tapes. b) Practical exercises including phonetic drills and recordings of texts by the students. Several "quizzes" throughout the year. A written test at the end of the 1st term. A written and an oral test in the 2nd. Students will also be evaluated on their performance in the classroom.

Required textbook: P. Léon, *Prononciation du français standard*. The basic theoretical notions will be given by the instructor. Practical exercises will be taken from Léon as well as from other sources. Additional bibliography will be provided at the beginning of the year.

Prerequisite: FREA01

Session: Winter Day

FREB49Y The Twentieth Century: The Search for Identity / W.J. Bancroft, L.B. Mignault

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

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

A detailed bibliography for this course will be provided on the first day of class. Students interested in taking FREB49Y might wish to consult a general account of the 20th century French novel, e.g., *An Age of Fiction* by Germaine Brée and Margaret Guillon.

There will be one major essay and possibly an additional classroom assignment per term. There will also be one major essay and possibly an additional classroom assignment per term. There will also be one examination or take-home test per term.

Exclusion: (FREB35)

Prerequisite: FREA01

Session: Winter Day

FREC01Y Language Practice / G. Trembley and Staff

This course is a continuation of FREB01Y and includes 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 text-books (J. Darbelnet, *Pensée et Structure/Contes modernes*, 3rd edition), being used in conjunction, are intended to reinforce the students' proficiency in the language.

Four compositions in each semester. One mid-term written test in each semester. One final written test in each semester. One oral test in the second semester. Active participation in classroom discussions will also be counted in the instructor's final evaluation.

Prerequisite: FREB01 or FREB21

Session: Winter Session

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

FREC02F

C03S

C04F

C05S

C06F

C07S

C90Y **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, methods of approach and evaluation. The material studied should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should contact Prof. J. Bancroft.

Prerequisites: One B-level course in French, excluding FREB11 and FREB12; permission of instructor.

Session: Winter Day

FREC09Y Problems in Translation / J. Curtis

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

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

The final mark will be based on class preparation, term-tests, and written assignments including a major project in the second term.

Exclusion: (FREC08)

Prerequisite: FREB01 or FREB21

Session: Winter Day

FREC10S Textual Analysis / C. Jennings

This course will involve a study of literary texts from the seventeenth to the twentieth centuries. Texts for study will also be chosen from the following disciplines: Fine Art, History, Philosophy, Psychology, Sociology, Political Science, Journalism.

After some introductory lectures on aspects and methods of textual analysis, the course will consist of tutorials. Literary texts will include the three *genres*. Depending on the interests of the class members, material for study may also be chosen from among other disciplines, or from the students' own writings.

The class will meet two hours per week. Evaluation will be based on two written, two oral *explications de textes* and class participation. There will be no final exam. Class participation is indispensable. A detailed bibliography will be distributed on the first day of class.

Prerequisite: At least one B-level course in French, excluding FREB11 and FREB12

Session: Spring Day

FREC99B Advanced French / Information will be available at a later date in Room H332A.

A language practice course which continues the A01 - B01 - C01 sequence; it includes reading and composition, translation and stylistics, oral reviews and debates.

Prerequisite: FREC01Y

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

FRENCH COURSES NOT OFFERED in 1979-80**FREA11F Man and Society in French Fiction**

Prerequisite: Reading knowledge of French tested by an entrance examination for students without grade 13 French

FREA12S Man and Society in French-Canadian Fiction

Prerequisite: Reading knowledge of French tested by an entrance examination for students without Grade 13 French

FREB11F Topics in French Literatures I: Politics in Quebec Literature

Prerequisite: Reading knowledge of French tested by an entrance examination for those without Grade 13 French

FREB12S Topics in French Literatures II: Love and Honour

Prerequisite: Reading knowledge of French tested by an entrance examination for those without Grade 13 French

FREB14S Topics in French Literatures III: The Rural Novel in Quebec

Prerequisite: Reading knowledge of French tested by an entrance examination for students without Grade 13 French

FREB25Y Introduction to French Linguistics

Prerequisite: FREA01

FREB29F French Drama of the Eighteenth Century

Prerequisite: FREA01

FREB30F French Theatre of the Early Modern Period

Prerequisite: FREA01

FREB31S Contemporary French Theatre: The Theatre and the Absurd

Exclusion: (FREB30 in 1973-74 and previous sessions)

Prerequisite: FREA01

FREB32F The Writer and Nineteenth Century Society

Exclusion: (FREB10)

Prerequisite: FREA01

FREB33S Readings in Nineteenth Century French Fiction

Prerequisite: FREA01

FREB37S French-Canadian Novel since 1945

Prerequisite: FREA01

FREB38F The Theatre of French Canada

Prerequisite: FREA01

FREB70Y The Twentieth Century: in Search of the Novel

Exclusion: FREB34

Prerequisite: FREA01

- FREB80F Images of Women in French Literature**
Exclusion: HUMB42
Prerequisite: FREA01
- FREB81S Women's Consciousness in French Literature**
Exclusion: HUMB43
Prerequisite: FREA01
- FREC20H Cinema and Literature**
Prerequisite: One B-level course in French or permission of instructor
- FREC22Y Introduction to Medieval French Language and Literature**
Prerequisite: One B-level course in French, excluding FREB11, FREB12 and FREB14
- FREC24S The French Novel in the Eighteenth Century**
Prerequisite: One B-level course in French, excluding FREB11, FREB12 and FREB14
- FREC25Y Literature of the Renaissance**
Prerequisite: At least one B-level course in French other than FREB11, FREB12 or FREB14
- FREC34F Cross-currents in Contemporary French Fiction**
Prerequisite: One B-level course in French, excluding FREB11 and FREB12, or FREB14
- FREC39S French-Canadian Poetry**
Prerequisite: At least one (completed) B-level course in French, excluding FREB11, FREB12 or FREB14
- FREC40Y Modern French Poetry from Baudelaire to Valery**
Prerequisite: One B-level course in French, excluding FREB11 and FREB12
- FREC60F Modern Literary Theorists**
Prerequisite: One B-level course in French Literature

GEOGRAPHY

Assistant Chairman: M. F. Bunce

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

Sequence A: Physical Geography

A04, A05
 B02, B21, B22, B03, B19, B18, B07, B15
 C06, C15, C23, C25, C01, C05, C12
 GLGA01, NSCB02, MATA22

Sequence B: Urban/Economic Geography

A04, A05
 B02, B16, B22, B05, B06, B13
 C04, C13, C18, C01, C12, C24, C27
 ANTB31, ECOB47, SOCB05

Sequence C: Landscape/Regional Geography

A04, A05
 B21, B22, B05, B13, B17, B19, B23, B16
 C04, C14, C17, C20, C01, C12
 GGR359F (St. George)

Sequence D: Environmental and Resource Geography

A04, A05
 B02, B21, B22, B01, B03, B19, B18
 C15, C20, C21, C23, C01, C12, C26
 NSCA02, ECOA01

Sequence E: A General Programme in Geography

A04, A05
 B22, B01, B03 or B19, B05 or B13, B17
 C12, C13, C14

Major Programme in Geography

Supervisor of Studies: E.C. Relph

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

- (1) GGRA04Y The Nature of Human Geography and GGRA05Y Introduction to Physical Geography
- (2) GGRB02Y Geographic Methods II: Analytical and Quantitative Methods
- (3) GGRC01Y Supervised Research
- (4) GGRC12F Contemporary Issues in the Philosophy of Geography or GGR320 History and Philosophy of Geography (course available only on the St. George Campus)

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

GGRA04Y The Nature of Human Geography / M.F. Bunce and E.C. Relph

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

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

Exclusion: (GGRA08); (GGRA09)

Session: Winter Day, Summer Evening

GGRA05Y Introduction to Physical Geography / B. Greenwood

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

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

Exclusions: (GGRA06); (GGRA07); (GGRA08); (GGRA09)

Session: Winter Day

GGRB01Y Geography of Resources

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

Resource issues are examined in two broad contexts: global resource problems and policies; themes and problems in Canadian resource management. The specific subjects discussed include: the world food problem; global patterns of energy consumption and production; use and management of the world's minerals; international responses to resource inequalities; water development and management in Canada, pollution, conservation, environment and the law, problems of land management in Canada. The teaching method consists of two hour lectures per week. Evaluation will be based on two three-hour examinations, two essays.

Prerequisites: GGRA04Y or GGRA05Y.

Session: Winter Day

GGRB02Y Analytical and Quantitative Methods in Geography / J. Miron

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

The teaching method consists of two hours lectures, and two hours labs per week. Evaluation will be based on weekly assignments; mid-term, December and final examinations.

Exclusions: ECOB11, PSYB07; (MATB52, MATB57)

Prerequisites: GGRA04 or GGRA05

Session: Winter Day

GGRB03Y Climatology / G. Szeicz

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

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

Prerequisites: GGRA05Y

Session: Winter Day

GGRB05Y Urban Geography

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

Prerequisites: GGRA04 or GGRA05

Session: Winter Day

GGRB06Y The Geography of Economic Activities

An introduction to the bases of regional variations in economic activity and development. The course contains: theories of the location of agriculture, industry and tertiary activities; the nature of economic regions, migration, mobility and trade; regional disparities and development; and the geography of Common markets. There will be case studies of the economic geography of regions and the distribution of major industries.

Prerequisites: GGRA04, ECOA01, COMA01Y.

Session: Winter Day

GGRB07Y Geomorphology: The Pleistocene Epoch / B. Greenwood

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

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

Prerequisite: GGRB19Y

Corequisites: GGRB02; GGRB03

Session: Winter Day

GGRB13Y Modern Landscapes and Built Environments / E. Relph

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. Evaluation will be based on studies of particular landscapes, essays and an examination.

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

Session: Winter Day

GGRB16Y Local Area Studies

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

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

Prerequisites: GGRA04 OR GGRA05.

Session: Winter Day

GGRB17Y Rural Geography / M.F. Bunce

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

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

Exclusion: (GGRC02)

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

Session: Winter EVENING

GGRB18Y Hydrology and Water Resources / A.G. Price

The course presents a quantitative study of the processes governing the behaviour of water at or near the surface of the earth. Conventional techniques of analysis and prediction are considered as well as some of the applications to problems of water resources management planning.

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

Prerequisite: GGRA05

Session: Winter Evening

GGRB19Y General Geomorphology / B. Greenwood

Processes of surficial material development and landform evolution; weathering processes and soil development; hillslope form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes; Pleistocene and present day glaciation; geomorphology as an applied geotechnical field.

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

Prerequisite: GGRA05

Session: Winter Day

GGRB21S Aerial Photograph Interpretation / A.G. Price

The geometric properties of aerial photographs are treated, and methods for analysing them are developed, including the measurement of heights and distances. The extraction of other types of information is also covered, including the application of aerial photograph interpretation to problems in geomorphology, soils, agriculture, forestry, and urban studies. The course will conclude with a brief treatment of modern remote sensing techniques.

The aim of the course is to enable you to handle, analyse, and interpret aerial photographs. Included are treatments of the physical controls on image quality, and the geometric controls on image size and shape. The teaching method will consist of one two-hour lecture per week and one three-hour laboratory per week. Evaluation will be based on laboratories, project, mid-term exam and final examination.

Exclusion: GGRB11

Prerequisite: GGRA04 or GGRA05 or permission of instructor

Session: Winter Day

GGRB22F Cartography

An introduction to the compilation, construction, interpretation and use of a variety of types of maps. The course also introduces basic field techniques of survey and cartography.

The teaching method consists of one two-hour lecture per week and one three-hour laboratory per week. Evaluation will be based on short field projects, laboratory exercises and an examination.

Exclusion: GGRA03

Prerequisite: GGRA04 or GGRA05 or permission of instructor

Session: Winter Day

GGRB23Y Topics in Regional Geography

A systematic examination of the dynamics of regional geography as expressed in diverse patterns in different world regions. The precise regional examples used will vary from year to year in accordance with research interests of instructors involved and with interests of students.

Previous courses have dealt with the Middle East. The central topic for 1979-80 depends on the instructor appointed but is liable to be either Africa or Canada.

The teaching method will consist of lectures. Evaluation will be based on term papers and an examination.

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

Session: Winter Day

GGRC01Y Research Dissertation / Any faculty member in Geography may act as supervisor

Students will be required to complete a dissertation and discuss it with an examining committee. The topic for the research project should be selected by the end of the third year of full-time study (or equivalent) and must be approved by a staff supervisor. Students should start work on the project during the summer preceding their fourth year of full-time study (or equivalent), and should complete most or all of their field work during this period.

Evaluation will be based on an oral examination on dissertation by a committee of two faculty members.

Prerequisites: Any fifteen courses. By the end of the year in which the student takes this course, at least eight courses in Geography (not including GGRC01) must have been completed.

Session: Winter Day

GGRC04S Urbanization in Southern Ontario

An advanced discussion course focussing upon the process of urbanization and its control and planning. The emphasis is upon the framework and programs of regional planning in southern Ontario, existing trends of land use and population change, and the relationship between urban and rural areas.

Prerequisite: GGRB05

Session: Summer Day

GGRC12F Contemporary Issues in the Philosophy of Geography / E. Relph

An examination of the major themes in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, philosophy of history, etc.). Alternative philosophical approaches of increasing popularity (phenomenology, Marxism, conceptual analysis) are also considered.

The aim of this course is to examine the relationships between the various types and approaches of geography, and to demonstrate some of the implications of the most widely adopted approaches. The teaching method consists of lectures and seminars. Evaluation will be based on several annotations of papers and books, an essay integrating these, and an examination.

Prerequisites: Any ten courses. By the end of the year in which the student takes this course at least five other courses in geography must have been completed.

Session: Winter Day

GGRC13S A Theoretical Approach to Political Geography

An examination of theories and principles postulated to explain the relationships between geographical and political phenomena on various scales - local, regional and worldwide. The two main approaches emphasized are morphological and functional. The basic theme of the course is that an understanding of theoretical details is essential for the proper evaluation of the ever changing geographical conditions and political processes in different parts of the world. Limited enrolment: 20.

After discussing the present status of political geography the course will proceed to an analysis of the evolution of the modern state. Using the notion of the state as the basic concept for the examination of modern political-geographic phenomena the course will proceed to examine the various modes of geographic integration and disintegration including: acculturation, imperialism, federalism (modes of integration); populism, nationalism, revolution (modes of disintegration). Where possible Canadian examples will be used. The final part of the course will discuss the geopolitical characteristics and importance of frontier and boundary areas. The teaching method consists of one two-hour lecture per week. Evaluation will be based on one three-hour examination, two short assignments and class participation based on assignment work.

Prerequisites: Any two B-level courses in geography or political science.

Session: Winter Day

GGRC14F Settlement of Upper Canada / M.F. Bunce

An examination of aspects of the historical geography of pre-confederation Ontario. Particular attention will be paid to the development of the settled landscape through a study of such themes as pioneer settlement, the impact of ethnic diversity, the growth of agriculture, the spread of transportation, and the development of towns. Reading and research of archival and other original source material will form an important part of the course, and will be the basis of weekly seminar discussions. Limited enrolment: 20

The teaching method will consist of lectures and seminar discussions. Evaluation will be based on two assignments, one an essay, the other a research project with seminar presentation.

Prerequisites: Any two B-level courses in Geography or History.

Session: Summer Evening

GGRC15A Soil Management and Conservation / R. Bryan

Application of soils geography to problems of resource use and management. Soil erosion and conservation procedures. Drainage and reclamation of wet soils; reclamation of polder soils. Soil surveys and agriculture. Problems of soils in Arctic and sub-Arctic. Soils of arid and semi-arid lands; irrigation salinization, reclamation.

Prerequisites: (GGRB10) or GGRB19

Session: Summer Day

GGRC17Y Landscape Interpretation / E. Relph

Ways of interpreting and analysing landscapes are developed through field investigations of specific places, both urban and rural. Limited Enrollment: 20

In the Fall term the course involves a number of field trips (held in class time) followed by discussion and analysis of observations. In the Spring term the emphasis will be on the analysis of individual landscape features and methods of observation and interpretation. Evaluation is based on brief reports of the field investigations, a major paper and class presentation.

Prerequisites: GGRB16; students with other geography courses or from other disciplines admitted with permission of instructor.

Session: Winter Day

GGRC18S Urban Transportation Policy Analysis / J. Miron

An introduction to the analysis of urban transportation planning problems. Topics include the spatial impacts of transportation improvements, mass transit policy, environmental impacts, and evaluation in transportation planning.

The teaching method consists of three hours lectures per week. Evaluation will be based on a term paper and a final examination.

Prerequisite: Any two B-level courses in social sciences.

Session: Winter Day

GGRC21F Economic Aspects of Water Resource Management

Environmental issues in a regional context; conservation and resource management; regional development and environmental indicators. Problems of defining and implementing environmental standards. Environmental politics and decision making. Limited enrolment: 20.

Prerequisite: GGRB01

Session: Winter Evening

GGRC23F Physical Aspects of Water Resource Management / A.G. Price

The physical repercussions of man's use of surface and sub-surface water, with particular emphasis upon the degradation of water quality by sewage, chemical, thermal and organic wastes. The course outlines the main sources of degradation and depletion of water resources and proposes some physical solutions to these problems.

The aim of this course is first to familiarize you with the ways in which undisturbed ("natural") water systems maintain equilibrium, and to gain a general understanding of the effects of changes in the major water quality parameters on natural aquatic systems. Secondly, the consequences of human water usage will be investigated. The teaching method consists of one two-hour lecture per week. Evaluation will be based on a major term project and seminar, considered as one unit, a mid-term test and a final examination.

Prerequisites: GGRB18; students who have a credit in any of GGRB03; GGRB07; GGRB10 or GGRB15 may be admitted with permission of instructor.

Session: Winter Day

GGRC25S Sedimentary Models

This advanced course develops the basic principles of sediment transport mechanics necessary for the interpretation of the physical properties of sedimentary bodies. Detailed examination of a wide range of modern sedimentary systems will be undertaken to establish analogues for paleoenvironmental interpretation. Topics include: fundamental sediment properties, facies definition, tectonics and sedimentation, cyclic sedimentation, facies models, paleohydrologic interpretations. Laboratory and field work will be a course requirement.

The teaching method will consist of lectures and seminars - two hours per week, and laboratories and/or field trips - two hours per week. Evaluation will be based on a seminar paper plus a final examination.

Prerequisites: GGRB19, (GGRB07), or GGRB15 or GGR311 (St. George)

Session: Winter Day

GGRC26Y The Geography of Underdevelopment

The definition, nature, performance and problems of underdeveloped areas. Underdevelopment as a phenomenon, a condition and a process and their expression as geographically distinct realities. Considerable reading and constant participation by the student through discussions and seminars. A background in Economics would be useful.

The course examines the spatial dimensions of development and underdevelopment in both the traditional and modern sectors of less developed countries. The changing spatial organization of territory is examined in light of altered population/land ratios and urban/rural ratios. Among the particular themes covered are: colonization, urbanization; the spatial impress of colonialism; rural-urban settlement system relations; migration; city size and structure, trade and marketing. The teaching method consists of lectures, two hours per week, student presentations, one hour per week. Evaluation will be based on one three-hour examination, two essays and class participation.

Exclusion: GGRB08Y

Prerequisites: (GGRA08),(GGRA09)

Session: Winter Day

GGRC27Y City Planning Analysis and Regional Science / J. Miron

An introduction to quantitative approaches to problems of planning for urban regions. Topics include demographic analysis, regional economic growth and environmental quality analysis, urban spatial form, and the evaluation of planning alternatives.

The teaching method consists of three hours lectures per week. Evaluation will be based on assignments; mid-term, December and final examination.

Exclusion: GGRB20Y

Prerequisites: Two of ECOA01Y, GGRB05Y, GGRB02Y (or equivalent statistics course).

Session: Winter Day

COURSES NOT OFFERED in 1979-80**GGRB15Y Coastal Geomorphology**

Prerequisite: (GGRB19)

Corequisite: None, but GGRB02 highly recommended

GGRC06S Biogeography Seminar

Prerequisites: GGRB03Y or GGRB18Y or GGRB19Y

GGRC20F Rural Planning and Development

Prerequisites: Any three B-level courses in Geography. Students with a background in other Social Sciences disciplines may be interested in this course: They will be admitted with permission of instructor

GGRC24S Advanced Quantitative Methods

Prerequisite: GGRB02

GEOLOGY

Discipline Representative: J. Westgate

Geology is the principal branch of the Solid Earth Sciences concerned with the origin, history and structure of the Earth. It is a scientific discipline providing a dynamic perspective view of the physico-chemical and biological process that have operated on the Earth by observations of rock materials. Because of the multidisciplinary nature of Geology, the course "Planet Earth: an Introduction to Geology" interfaces well with other fields such as Anthropology, Biology, Chemistry, Geography, Physics and Quaternary Studies, and provides a sound basis for further studies in these areas as well as a basis for specialization in Geology itself. (Students intending to specialize in Geology are advised to consult Professor J.A. Westgate - Room S521).

GLGA01Y Planet Earth: an Introduction to Geology / J.A. Westgate

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.

Specific topics include: evolution of the Earth and its place in Space; geologic time; Earth materials and the rock cycle; composition and structure of the Earth; internal geological processes, including igneous activity, metamorphism, deformation of the Earth's crust; plate tectonics; surficial geological processes and the history of the Earth with emphasis on North America.

The suggested first year programme in Geology includes MATA26Y or MATA55Y, CHMA02Y/CHMA01Y, PHYA02Y and BIOA03Y. The course structure is lectures, laboratory work and field trips. In addition, students will be required to view films on Earth Science that will be shown each week in the Audio-Visual Department. Evaluation consists of several theory and laboratory examinations, laboratory exercises and reports on field excursions.

Exclusion: GLG140H and GLG141H (St. George)

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

Session: Winter Day

GLGA02S Geology and Land Use Planning / W. Tovell

A course designed to show the relevance of geology in our daily lives. The fundamental theme is on problems of recognition, prediction, and control of geologic hazards and processes and their significance for optimum land use planning. No prior knowledge in the Earth Sciences is required.

Specific topics include: volcanic activity, earthquakes, and landslides; subsidence and collapse; surface waters and groundwater; waste disposal and treatment; resources and planning. The course structure is two lectures per week and a field excursion. Evaluation is based on a one hour mid-term examination and a two hour final examination. A report on the field excursion is required.

Session: Winter Day

GERMAN

Discipline Representative: H. Ohlendorf

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

Major Programme in German

Supervisor of Studies: H. Ohlendorf

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

GERC10H (GERC04H) Conversation and Composition II

GERC23F (GERB09F) Middle High German

GERB43Y (GERB17Y) (The German Novel from Goethe to Grass) and GERB40Y (GERB21Y) (The Development of German Drama) do not count toward fulfilment of these requirements.

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

- (1) GERB19H and GERB20Y; GERB25Y
- (2) GERB30Y; one full course equivalent from the B-level literature courses
- (3) GERC10Y; GERC13Y or GERC20Y, or one full course equivalent from the B-level literature courses
- (4) GERC13Y or GERC20Y; GERC23F/S; and one full course equivalent from the B-level literature courses

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

Major Programme in German Area Studies

Supervisor of Studies: H. Ohlendorf

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

In order to offer the student of German Area Studies a cohesive inter-disciplinary plan of study we have grouped these courses below. This is a programme of 14 courses.

Required for every student are the German language courses GERB20, GERB30 (GERB04), GERC10 (GERC04) and two full course equivalents in German Literature. Five (5) courses are to be drawn from the core groups A, B, or C. The remaining four (4) courses should be selected from groups A - E, excluding your core choice.

- A. History
- | | |
|---------|---|
| HISA01Y | The European World |
| HISB17Y | Germany in the 19th and 20th Centuries |
| HISC17Y | European Society and Culture Between the World Wars |
- plus two courses from among:

- | | |
|---------|--|
| HISB13Y | Europe in the Reformation Era 1500-1650 |
| HISB15Y | Aspects of European Social History 1789-1918 |
| HISB18Y | Europe under the Enlightened Despots |

- B. The Arts
- | | |
|---------|------------------------------|
| FARB28Y | Art of the 20th Century |
| MUSA01Y | Introduction to Music |
| MUSB02F | Haydn, Mozart, Beethoven |
| MUSB06F | Music of the Romantic Period |

plus two full course equivalents from among the following:

- | | |
|-----------|--|
| FARB13F | Art of the 1st Half of the 19th Century |
| FARB14S | Art of the 2nd Half of the 19th Century |
| FARB24Y | Medieval Art (IV-XIV Centuries) |
| FARB36F/S | Expressionist Trends in Western Art from Van Gogh to Jackson Pollock |
| FARB43Y | Renaissance in Europe |
| FARB44Y | Baroque in Europe |
| MUSB01S | Music of the 20th Century |
| MUSB05S | Music of the Baroque Era |
| MUSB07F | The Symphony |
| MUSB13F/S | Bach |

- C. Philosophy
- | | |
|-----------|---------------------------------------|
| PHLA01Y | Fundamental Questions of Philosophy |
| PHLB12F/S | Marx and Marxism |
| PHLB30F/S | Existentialism |
| PHLB48F | Philosophy in the Later Modern Age I |
| PHLB49S | Philosophy in the Later Modern Age II |
- plus two full course equivalents from among the following:
- | | |
|-----------|---------------------------------------|
| PHLB03F/S | Philosophy and Art |
| PHLB04F/S | Philosophy in Literature |
| PHLB15F/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

ECOB68F/S	Comparative Economic Systems
ECOB82Y	European Economic History
POLB71Y	Political Thought of the 18th and 19th Centuries
POLB85Y	Comparative Politics of Industrial Societies
POLC70Y	20th 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
HUMB43F/S	The Emergence of Modern Prose
HUMB44F/S	Disaster and the Literary Imagination
HUMC19Y	Contemporary Fiction and its Background

Students interested in German Area Studies should contact the programme adviser as soon as possible to ensure that a satisfactory and cohesive sequence of courses is selected.

GERA09H Language Practice I / *Information will be available at a later date in room H332A.*

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 A10Y, as well as to expand the students' skills of expression and comprehension in German. There are two hours of supervised language laboratory and oral drills.

Evaluation will be based on a series of short quizzes, dictations, class participation and an oral test at the end of the year.

Corequisite: GERA10Y

Session: Winter Day

GERA10Y Introductory German / *U. Sherman*

The fundamentals of grammar and syntax.

In this course the students will acquire a basic knowledge of the German language. One comprehensive textbook will be used and a variety of reading materials will be introduced to 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 those skills in a variety of combinations. There are four hours of intensive grammar and structural work per week. There will be short quizzes, unit tests, and a final examination. Class participation and homework will play a major role in determining the final grade.

Corequisite: GERA09H

Session: Winter Day

GERB19H Language Practice II / *Information will be available at a later date in Room H332A.*

A practicum offered in conjunction with GERB20Y. The focus is on oral and written composition on the intermediate level.

This practicum is designed to increase the students' vocabulary and general fluency in German. There are two hours of supervised discussion, essay writing and reading each week.

Short essays, vocabulary quizzes and a short oral examination at the end of the year form the basis of evaluation. Class participation will play a major role in determining the final grade.

Prerequisites: Grade 13 or GERA10Y (next year A09H/A10Y)

Corequisite: GERB20Y

Session: Winter Day

GERB20Y Intermediate German / *U. Sherman*

Intensive language work focusing on readings, oral and written composition.

The course is designed to expand the active and passive vocabulary of the students through a variety of reading materials. A thorough grammar review accompanies the reading selections. As the course progresses, the emphasis will shift to literary discussions and conversation. Short stories will supplement the textbook. Mimeographed material on current events will be introduced from time to time to spark class discussion.

Three hours of lectures per week. The students are expected to prepare homework assignments and participate in class discussions.

There will be quizzes, tests, and a final examination. Class participation will play a major role in determining the final grade.

Exclusion: (GERA11)

Prerequisite: Grade 13 German or GERA10

Corequisite: GERB19H

Session: Winter Day

GERB25Y German Civilisation and Culture / *H. Ohlendorf*

An introduction to German institutions and culture. Course will be taught in English.

Modern Germany developed as an amalgam of regions. The arts, literature, religious and political institutions grew at different paces in the various areas. The historical survey of German cultures and institutions will end with a close look at the two Germanys of today, east and west.

Lectures and discussion. Tests, final examination.

Session: Winter Day

GERB30Y Conversation and Composition I / *U. Sherman*

A continuation of the language work done in GERB20.

There will be a variety of language exercises centered around different texts. A sophisticated grammar review will enable the students to develop their skills of reading, writing, speaking, and translating. Mimeographed material on current events will be introduced to spark class discussion and to encourage oral and written analysis in German. On an advanced level the course intends to foster the students' mastery of grammar and to develop their ability to converse in German with ease and clarity.

Three hours of informal, yet structured discussion per week. German will be the language of instruction. Written assignments and a number of quizzes. Class participation will carry great weight in determining the final grade.

Exclusion: GERB04

Prerequisite: (GERA11) or GERB20

Session: Winter Day

GERB36F Structure of German / *J.D. Woods*

Specific reference is made to the Sound, Syntactic and Semantic systems of Modern German, in order to ascertain the structures and processes of these systems.

We will attempt to construct a grammar of Modern Standard German on the basis of modern linguistic principles.

Evaluation is based on class participation and tests (and, if possible, on class presentation); exact proportions of these components in the final grade will be determined later.

Exclusion: GERB18

Prerequisite: (GERA11) or GERB20

Corequisite: (GERB04) or GERB30

Session: Winter Day

GERB43Y Masterpieces of the German Novel from the 18th Century to the Present / *H. Wittmann*

A study of major novels of Goethe, Stifter, Keller, Th. Mann, Hesse, Musil, Grass, and others. (Course offered in translation. Credit toward the Major Programme in German will be given to students who read the novels in the original.)

The study of the German novel will be primarily historical, from the time of Goethe to the present. Special emphasis will be on the investigation of the evolution of the uniquely German genre of the "Bildungsroman", the educational novel, as well as of great recurrent themes such as: the artist and society, artist and bourgeois, art and reality, the writer as the conscience of the nation etc. The course attempts to provide an understanding of the German novel as an important reflection of the creative imagination of the German speaking people. One two-hour seminar per week. Two papers and a number of short quizzes. Class participation will play a major role in determining the final grade.

Session: Winter Day

GERB50S Methods of Interpreting Literature / H. Wittmann

An introduction to the techniques of literary analysis, applied to representative texts of the eighteenth, nineteenth and twentieth centuries.

Poems and short pieces of prose will be analysed in close reading. Prosody and metrics will be dealt with at some detail; special attention will also be given to the relationship of form and content. In the final section patterns of rhetoric, syntax, and style will be investigated in the analysis of prose texts. *The course intends to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.*

All sessions are informal tutorials; they have free-flowing discussions with a high degree of student involvement. Each student is asked to prepare a number of short presentations which will be evaluated in class. Class participation plays a major part in the final evaluation.

Exclusion: GERB10S

Prerequisite: Grade 13 German or GERA10

Corequisite: (GERA11) or GERB20

Session: Winter Day (S)

GERB63F Nineteenth Century Drama / H. Wittmann

The development of drama from Grabbe and Buchner to Hauptmann and Wedekind.

The core of this course is formed by the best known plays of two major trends of 19th century drama: the conservative and the revolutionary. Emphasis will be placed on the reading, analysis and discussion of the plays in the context of their time and the literary traditions in which they stand or which they themselves begin. The plays will also be looked at as practical examples of the theories of the theatre they are intended to represent.

Three hours of a mixture of lectures and discussion sessions per week.

Short tests and a paper. Class participation will play a major role in determining the final grade.

Prerequisite: (GERA11) or GERB20

Corequisite: (GERB04) or GERB30

Session: Winter Day

GERB70S Twentieth Century Drama / H. Wittmann

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 intends to show what gave rise to the many experiments in modern German theatre, and what relationships exist to the social and ideological realities which these plays confront.

Three hours of a mixture of lectures and discussion sessions per week.

Short quizzes and a paper. Class participation will play a major role in the final evaluation.

Exclusion: GERB03

Prerequisite: (GERA11) or GERB20

Corequisite: (GERB04) or GERB30

Session: Winter Day

GERB73F Modern German Poetry / H. Wittmann

A study of lyrical trends and forms from the post-Romantic era to the present.

The course deals with a multitude of different forms and styles of poetry in the 19th and 20th century. It attempts to foster the understanding of how a poem works and of what its role is within the history of its form and in its cultural context. Special topics: the relationship between sound, organization and meaning, poetry and philosophy, poetry and ideology. Three hours of a mixture of class discussion and lectures.

Short quizzes, one paper. Class participation will play a significant role in determining the final grade.

Exclusion: GERB07

Prerequisite: (GERA11) or GERB20

Corequisite: (GERB04) or GERB30

Session: Winter Day

GERC10Y Conversation and Composition II / H. Ohlendorf

Emphasis will be placed on refining the skills of oral and written composition, of textual analysis and translation.

This course is a continuation of GERB30Y. There will be various kinds of language exercises, selected according to the objectives of the course and the needs and desires of the students. Themes for discussion and composition will be chosen from a wide variety of areas. *At the end of this course, the student should be able to write and converse in idiomatic German with a high degree of fluency. He should be able to translate with ease texts of some complexity into both English and German.*

Three hours of informal, yet structured discussion per week. The language spoken in class is German.

Evaluation is based on frequent written assignments, class participation, term tests.

Exclusion: GERC04

Prerequisite: (GERB04) or GERB30

Session: Winter Day

GERC13Y Classicism / H. Ohlendorf

A study of Classicism, with particular attention to Schiller and Goethe. Reference will also be made to the critical writings of men such as Winckelmann and Herder and to the essays and the exchange of letters by Schiller and Goethe.

The course deals essentially with the writings of Goethe and Schiller after their "Sturm und Drang" period. We will read plays, novels, poetry, and essays. The background against which the texts will be read is that of Classicism, a term that describes a European literary and critical tradition as well as a specific German literary phenomenon in European Romanticism.

Discussions and lectures in seminar format.

Two term tests, one major paper. Class participation, including brief presentations, will play an important role in the final evaluation.

Exclusion: GERB11

Prerequisite: (GERA11) or GERB20

Corequisite: (GERB04) or GERB30

Session: Winter Day

GERC23F Introduction to Middle High German / J.D. Woods

The structure of the Middle High German language, illustrated through selected works of the literature.

Our aim will be to acquire a thorough understanding of the grammar of Middle High German in order to be able to read the literature of the language. Evaluation is based on class participation and tests; exact proportions of these components in the final grade will be determined later.

Exclusion: GERB09

Prerequisite: (GERA11) or GERB20

Corequisite: (GERB04) or GERB30

Session: Winter Day

GERC30

C33,

C43F,

C36,

C40,

C46S Supervised Reading / Staff

Informal tutorials.

One paper.

Prerequisite: (GERB04) GERB30

Session: Winter Day

GERC48Y Supervised Reading / Staff

The course is designed to give senior students an opportunity to follow up on ideas generated during the more formal course of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student.

Informal tutorials.

Two medium length papers or one major paper.

Prerequisites: (GERB04) GERB30

Session: Winter Day

GERMAN COURSES NOT OFFERED in 1979-80

- GERB33S History of German**
Exclusion: GERB06
Prerequisite: Grade 13 German or GERA10
- GERB40Y The Development of German Drama**
Exclusion: GERB21
- GERB53F German Literature before 1775**
Exclusion: GERB01
Prerequisite: (GERA11) or GERB20
Corequisite: (GERB04) GERB30
- GERB56S Literature of the Baroque and Enlightenment**
Exclusion: GERB05
Prerequisite: (GERA11) or GERB20
Corequisite: (GERB04) GERB30
- GERB60S Nineteenth Century Prose**
Exclusion: GERB15
Prerequisite: (GERA11) or GERB20
Corequisite: (GERB04) GERB30
- GERB66F Twentieth Century Prose**
Exclusion: GERB02
Prerequisite: (GERA11) or GERB20
Corequisite: (GERB04) GERB30
- GERB76F Features of Post-war German Literature**
Exclusion: GERB08
Prerequisite: GERB20
Corequisite: (GERB04) GERB30
- GERC20Y Literature of "Sturm and Drang" and Romanticism**
Exclusion: GERB12
Prerequisites: (GERA11) or GERB20
Corequisite: (GERB04) GERB30

GREEK

Courses are offered in introductory Greek, (GRKA01 and GRKA10) and Greek literature of the classical period (GRKB01, GRKB30, etc.).

For further information see under Classical Studies.

GRKA01Y	Introductory Greek
GRKA10F	Introduction to Greek Authors
GRKB01S	Plato: Apology
GRKB30F-B34F	
GRKB35S-B39S	
GRKB40Y	Supervised Reading

Greek and Roman History

The following courses are offered this year:

GRHB01Y	Greek history from the Bronze Age to the Death of Alexander
GRHB03Y	Roman history from the Gracchi to Nero
GRHB24S	Ancient Historiography
GRHB29Y	Studies in Roman History: Roman Britain

For further information see under Classical Studies.

HISTORY

Discipline Representative: M. Eksteins

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 program 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.

Major Programme in History

Supervisor of Studies: A.N. Sheps

Students must complete a minimum of nine full courses in History (HIS or GRH), including HISA01Y and five upper-level courses (HISB10Y-HISC99Y, GRHB24F-GRHB27Y, HIS300 and 400 level courses on the St. George Campus). Of these at least two must deal with some period prior to the year 1815 (see following list of pre-1815 courses). In addition students are required to take courses in the history of at least three different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take two advanced courses in each of two of these three areas. Students should meet with the Supervisor of Studies as soon as possible.

Pre-1815 courses

List A

Full-year courses exclusively within a period before 1815

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
HISB08Y	Europe in the Middle Ages
HISB13Y	Europe in the Reformation Era, 1500-1650
HISB14Y	Society in Early Modern Europe, 1500-1800
HISB18Y	Europe under the Enlightened Despots
HISB27Y	Europe, 400-1100
HISB61Y	The Beginnings of France: Constantine to Charlemagne
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
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

HISA01Y The European World: An Introduction to History / J. Pearl, M. Eksteins

As 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. The evaluation consists of essays, a term test, tutorial participation, and a final examination.

Session: Winter Day, Winter Evening

HISB02Y Britain from the Eighteenth Century to the Present / A.N. Sheps

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.

There will be lectures and tutorials, two essays and a final examination.

Exclusion: (HISB01Y): (HISB02S)

Session: Winter Day

HISB03Y History of the United States / A.N. Sheps, W.M. Dick

Major themes from the Revolution to the present, including independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism and the United States as a world power.

There will be two lectures and one tutorial per week. Participation in tutorial discussions, an essay and an examination each term will form the basis of the final grade.

Session: Winter Day

HISB04Y Introduction to Canadian History / J.S. Moir, I.R. Robertson

Exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social and cultural history of the new nation-state established in 1867.

There will be two hours of lectures and one tutorial hour per week. Regular attendance at and participation in tutorials are required. Evaluation will be based on written work, tutorial participation, and two examinations, one in December and one at the end of the academic year.

Exclusion: HISB09Y

Session: Winter Day, Winter Evening

HISB06Y Europe in the Middle Ages / M. Gervers

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

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 1) to the peculiar circumstances which determined national boundaries and which led to the divisions and conflicts of the modern world, and 2) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, *The World of Late Antiquity*; G. Duby, *Rural Economy and Country Life in the Medieval West*; D. Hay, *The Medieval Centuries*; R.W. Southern, *Western Society and the Church in the Middle Ages*; and others. Evaluation will consist of tests (50%), term paper (30%) and class participation (20%).

Exclusion: (HISB08Y)

Session: Winter Day

HISB07Y Russia from the Thirteenth Century to the Present / E.W. Dowler

The Russian people, state and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present.

Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history.

The course will be taught by lectures and tutorials. Evaluation will be based on one exam and one essay each term.

Session: Winter Day

HISB12Y The Renaissance in Europe / Information will be available at a later date in Room H332A

The intellectual, cultural and social history of Western Europe from the mid-fourteenth to the mid-sixteenth centuries.

The Italian Renaissance will be considered first, in the context of the political and economic developments of the period, then its impact in other European countries will be examined. There will be two lecture hours and one tutorial per week, class discussion, written term work and an examination.

Prerequisite: HISA01Y

Session: Winter Day

HISB13Y Europe in the Reformation Era 1500-1650 / J. L. Pearl

An examination of major themes in sixteenth century Europe, especially social and cultural developments. There will be strong emphasis on the religious issues and institutions which were so important in that period, and on the interaction of these with the society and culture.

This is a lecture/tutorial course, with two hours of lecture and one of tutorial each week. Students will be evaluated on their participation in the tutorial sessions. They will also be required to submit two research papers of approximately fifteen pages each, and take a two-hour final examination.

Prerequisite: HISA01

Session: Winter Day

HISB15Y European Social History 1789-1918 / W.M. Dick

A course in international history tracing the development of the mass society from the upheaval of the French Revolution to the end of World War I. Pre-industrial 'crowds' and popular responses to industrialization will be studied together with the institutions into which mass action was gradually channelled.

Classes will consist of one double lecture and one tutorial per week.

Essays, examinations and tutorial participation will be the means of evaluation.

Prerequisite: HISA01

Session: Winter Day, Summer Evening

HISB16Y France in the 18th Century / Information will be available at a later date in Room H332A

An examination of the old Regime from Louis XIV to the Revolution.

Areas to be considered include, the Enlightenment, economic growth and the effects of population increase, the nobility, the position of the middle classes, popular culture, the absolute monarchy and its opponents, and the coming and course of the Revolution. There will be two lecture hours and one tutorial per week, and evaluation will be based on class participation, essays and examination.

Prerequisite: HISA01Y

Session: Winter Day

HISB17Y Germany in the Nineteenth and Twentieth Centuries / M. Eksteins

A thematic treatment of German history from the end of the Holy Roman Empire to the present, concentrating on social, economic, and cultural interpretations of Germany's political experience.

Teaching consists of two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential. Evaluation is based on tutorial participation, two term papers, and a final examination.

Prerequisite: HISA01

Session: Winter Day

HISB18Y Europe Under the Enlightened Despots, 1700-1789 / E.W. Dowler

An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century. Emphasis will be placed on the incongruity of theory and practice in the writings and policies of the enlightened despots.

In the first term the course will focus on the ideas of the Enlightenment and the social, economic and intellectual milieu which spawned them. In the second term the attempts of the so-called enlightened despots to apply Enlightenment ideas to the life of their states will be examined.

The course will be taught by lectures and tutorials. Evaluation will be based on two essays and one final examination.

Exclusion: HISB28Y

Prerequisite: HISA01Y

Session: Winter Day

HISB23Y Tudor and Stuart England / Information will be available at a later date in Room H332A

A survey of the major political, economic, social and cultural events in England during the sixteenth and seventeenth centuries including the Reformation, the puritan Revolution and the Civil War.

There will be two lecture hours and one tutorial per week, essays each term, and an examination.

Prerequisite: Another B-level course

Session: Winter Day

HISB31Y The Southern United States and Slavery / A.N. Sheps

The social, political and economic structures of the old South from the colonial period to the Confederacy, the development of southern culture, the relationship between ideas and institutions, slavery as a social and economic system, race relations, and the growth of Southern separatism.

There will be one double lecture and one tutorial per week in both of which there will be opportunity for class discussion led by the instructor. Term work will consist of regular reading and discussion, two brief written reports in the Fall term, an essay in the Spring term and an examination.

Prerequisite: HISB03

Session: Winter Day

HISB45Y The Prairie Provinces 1850-1950 / W.A. McKay

A study of the background of Western Canadian alienation beginning with the attempts to break the H.B.C. trade monopoly, native rights, the educational problem, agrarian protest movements, the natural resources control question, the fiscal problems generated by the depression, post-war search for "a place in Confederation".

There will be one two-hour weekly course with regular presentations by members of the class together with research and the preparation of two essays.

Students will be evaluated on the basis of written and oral work. The bibliography consists of: Artibise, *Western Canada Since 1870*; Thomas, *The Prairie West to 1905*; Morton, *Manitoba*; Morton, *The Canadian West to 1870-71*; Stanley, *The Birth of Western Canada*; Morton, *The Progressive Party in Canada*; Wood, *A History of Farmers' Movements in Canada*; and other titles a list of which will be distributed in class.

Prerequisite: HISB04Y or HISB09Y.

The course presupposes a knowledge of Canadian history and some skill in historical method.

Session: Winter Evening

HISB46Y Atlantic Canada / I.R. Robertson

An examination of the Maritime provinces and Newfoundland from the first European contacts to the present, with emphasis upon the pre-Confederation period in each province. Subjects to be investigated include the following: international fisheries; French regime; British settlement; responses to the American Revolution; the Loyalist impact, colonial economies and social structures; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; adjustment of the Maritimes to Confederation, and the prolonged resistance by Newfoundland; farmer, labour and fishermen's movements; the persistence of regional underdevelopment; the rise of tourism as an "industry"; literary and intellectual developments.

There will be one two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include a final examination and two research papers. In broad terms, the course objectives are (1) to promote the study of a region whose history has been largely ignored by Canadian historians, and hence inaccessible to students, and (2) to provide an opportunity for indepth study of such historical phenomena as regional underdevelopment. The weighting of evaluation will be as follows: research papers 40%, examination 35%, tutorials 25%. Regular attendance and participation in tutorials are required.

Exclusion: HISB46F

Prerequisites: HISB04Y or HISB09Y

Session: Winter Day

HISB47Y The Canadian Left, 1867 to the Present / I.R. Robertson

An investigation of farmer, labour, and socialist movements since Confederation, their roots in the changing social structure, and their political manifestations. The emphasis will be on the 20th century, and attempts will be made to assess the significance of the international affiliations and/or origins of the various movements, and to account for the unique character of the Canadian Left.

There will be one two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks throughout the year. Regular attendance at and participation in tutorials are required. Written work will include a final examination and two research papers. In broad terms, the course objectives are (1) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have organized to protect their interests; and (2) to explore the relationship between social change and popular, reform, radical, and socialist movements. Evaluation will be based on research papers (40%), examination (35%), tutorials (25%).

Exclusion: HISB47S

Prerequisite: HISB04Y or HISB09Y

Session: Winter Day

HISC01F

HISC02S

HISC03Y Independent Studies / The History Faculty

A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students 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.

Prerequisites: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC01 and HISC03 and by 1 December for HISC02. See History Supervisor of Studies for detailed application procedures.

Session: Winter Day

HISC14Y The European Mentality in the Early Modern Period (1500-1700) / J.L. Pearl

This seminar will examine two major cultural-intellectual developments: the witchcraft crisis and the scientific revolution, which coexisted in this period in a not always antagonistic fashion. Students will do a major research project, based as much as possible on primary sources. Limited Enrolment: 20.

This is a seminar course, in which each student will give one oral seminar in class, and write one or two research papers. Evaluation will be based on the seminar, paper(s), class discussion and two one-hour tests.

Exclusions: (HISC12); (HISC13)

Prerequisite: One B-level History Course

Session: Winter Day

HISC17Y European Society and Culture between the World Wars / M. Eksteins

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

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

Prerequisite: HISA01; one B-level course in History. A reading knowledge of one or more foreign languages, although not indispensable, would be very helpful.

Session: Winter Day

HISC32Y The American Colonies and the British Empire / A.N. Sheps

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

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

Prerequisites: Any one of HISB01, HISB02, HISB03, HISB05, HISB09 or HISB18

Session: Winter Day

HISC35S U.S. Labour and Society 1890-1920 / W.M. Dick

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

The main focus will be the opposing roles adopted by different sections of the labour movement: that of transforming American society, or that of finding a place within it.

Students will give a brief presentation to the seminar and will write one essay. There will also be a final examination.

Prerequisite: HISB03

Session: Winter Day

HISC41F Old Huronia / J.S. Moir

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

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

Prerequisite: HISB04Y or HISB05F or HISB09Y

Corequisite: Field trip to be arranged

Session: Winter Evening

HISC42S Church-State Relations in Canada / J.S. Moir

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

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

Exclusion: HISB42

Prerequisite: HISB04Y or HISB05F or HISB09Y

Session: Winter Evening

HISC47Y The Course of Conservatism in Canada / W.A. McKay

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

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

Prerequisites: HISB04 or HISB09 or equivalent

Session: Winter Day

HISC62Y The Crusades / M. Gervers

This seminar will consider the crusades of the 11th through 14th centuries, both in Europe and the Holy Land, as a continuation of Christianity's centuries-old struggle with paganism along its borders, as a form of colonial expansion prompted by an enormous growth of population in the 11th and 12th centuries, and as a papal weapon against heresy and political dissension within the bounds of Christendom itself. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitallers, Templars, Teutonic Knights, and associated orders in Spain and north-eastern Europe.

During the first semester students will read severally from the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have been raised since Ed. Gibbon completed his classic *Decline and Fall of the Roman Empire* in 1781. The second semester will be devoted to a similar reading (in translation) and critical analysis of 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. Evaluation will be based on weekly preparation and participation 50%, term papers 50%.

Prerequisites: HIB06 or HIB08Y

Session: Winter Day

HISC78Y The Russian Intelligentsia / E.W. Dowler

The historical importance of the intelligentsia in Russia during the nineteenth and early twentieth centuries is unparalleled in the history of any other country. Not a class, but yet a major intellectual, social and political force, the intelligentsia embraced the great thinkers of the Russian right and left from Dostoevsky to Lenin. A study of its origins, beliefs, role and personalities. Limited enrolment: 20.

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

Evaluation will be based on two essays and two in-class tests.

Exclusion: HISC18Y

Prerequisites: HISB07 or RUSA01.

Session: Winter Evening

HISTORY COURSES NOT OFFERED in 1979-80**HISB21F Frontier Communities in the British Empire Commonwealth: The South African Model**

Prerequisite: HISB01

HISB22S British Imperialism in India

Prerequisite: HISB01

HISB33Y American Society and Thought Before the Civil War

Exclusion: (HISC33Y)

Prerequisite: HISB03

HISB35Y The United States since 1870: The Response to Industrialism

Prerequisite: HISB03

HISB43Y Ontario History: the 19th Century

Prerequisite: HISB04Y

HISB44F/S Canadian Religious Traditions

Prerequisites: HISB04Y

HISB61Y The Beginnings of France: Constantine to Charlemagne

Prerequisites: GRHB03 or HISB06

HISC11Y Western Europe in the Seventeenth Century

Prerequisites: HISA01; one B-level course in History

HISC20F/S Anglo-Saxon England

Prerequisite: One B-level course in History or English

HISC21Y Urbanization and Social Change in 19th Century England

Prerequisite: HISB01

HISC22Y Religion and English Society, 1750-1900

Prerequisite: HISB01

- HISC34F/S** **Revolutionary America, 1760-1790**
Prerequisite: HISC01 or HISC03 or HISC04
- HISC43F/S** **Selected Topics in Canadian Religious History**
Prerequisite: HISC44
Limited enrolment: 15
- HISC45Y** **History of Canadian Social, Political and Historical Thought**
Exclusion: HISC45
Prerequisites: HISC04

HUMANITIES

Discipline Representative: K. Theil

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

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

The HUM listings below are divided into the following broad categories (clearly some of the courses could appropriately be listed more than once), for all of which HUMA01Y serves as a useful, though not a required, prologue:

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

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

The Humanities Programme

Supervisor of Studies: P.W. Gooch

The Humanities Programme is designed for the student who wishes what has been known as a "liberal education". The Programme will seek to develop the critical intellectual skills of the student and to acquaint him with basic forms of approach and analysis in several areas of human endeavour. It will accomplish this by developing a coherent group of courses, within the framework established below, for each student registered in the Programme. Each student will belong to a Programme Committee which will supervise his studies. A booklet on the Humanities Programme is available in the Office of the Division of Humanities.

Taken as part of a fifteen course degree, the student's course of study must include the following:

- (1) HUMA01Y
- (2) At least two consecutive courses in a language foreign to the student.
- (3) At least one course in each of the three Humanities areas which follow:
 - (a) Language and Literature: Classics, Drama, English, French, German, Humanities, Italian, Linguistics, Russian, Spanish;
 - (b) Historical Studies: Fine Art, Greek and Roman History, History, Humanities, Linguistics;
 - (c) Philosophical Studies: Classics, Humanities, Linguistics, Philosophy.

Note: A course taken to satisfy one area requirement may not be used to satisfy another area

requirement. A Humanities course may satisfy any of the three area requirements, depending on its content; students should consult with their Programme Committee.

- (4) At least one course from the Division of Science
- (5) At least one course from the Division of Social Sciences
- (6) HUMC10H
- (7) At least two courses based upon earlier courses.

Taken as part of a twenty-course degree, the student's course of studies must include all of the courses required above and also HUMC95-99.

HUMA01Y **Prologue*** / *Coordinators: W. Graham and M.E. Irwin*

Twenty books of central importance in Western civilization will be read. A comprehensive examination will be given at the completion of each subset of ten books. There is a one-hour tutorial for each book. The examination will stress the student's ability to relate the books in his own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest leaders will present aspects of each work through lectures or other media.

Fall Term: *The Bible* (selections); Homer, *The Odyssey*; Sophocles, *Oedipus Rex*; Plato, *Symposium*; Herodotus, *Histories*; Virgil, *Aeneid*; Augustine, *The City of God*; Dante, *Inferno*; Chanson de Roland; Boccaccio, *Decameron*. Spring Term: Machiavelli, *The Prince*; Cervantes, *Don Quixote*; Montaigne, *Essays*; Vasari, *Lives of the Artists*; Galileo, *Discoveries and Opinions*; Goethe, *Faust*; Marx, *Communist Manifesto*; Darwin, *Origin of Species*; Freud, *Interpretation of Dreams*; Wagner, *Ring of the Nibelungen*. Note: For information on appropriate editions of these works, see the co-ordinators. Titles may change if editions become unavailable.

*"What's past is prologue" - Shakespeare, *The Tempest*, 11, i.

Session: Winter Day

HUMA11Y **Greek and Roman Mythology** / *J. Warden, J. Grant*

An examination of the major myths and legends in the Greco-Roman world and their representation in classical literature, drama, and art. Part of the course will be concerned with ancient and modern theories of myth.

This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in Classics. Evaluation will be based on term tests, a slide test and two essays.

Session: Winter Day

JHDB12Y **Introduction to Cinema**

See Drama

HUMB13Y **The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities** / *R. Cockrell, W. Dowler, W. Graham*

An exploration of its philosophical, cultural, political and literary achievements in Soviet Russia before World War II.

The Russian Revolution was born amidst a flurry of contradictory ideals and brave hopes. This course will explore these ideals and hopes in philosophy and literature against the background of the political and social realities of Soviet Russia in the 1920's and 1930's.

Course will be taught by lecture and discussion. Evaluation will consist of several written assignments and one final examination.

Exclusion: HUMB30Y

Session: Winter Day

HUMB15Y **The Civilization of Spain** / *J.I. Chicoy-Dabán*

Examination through readings and discussion of main aspects of the civilization of Spain.

Social, intellectual and artistic components of the civilization of Spain from pre-Roman times to the present will be studied with illustration by slides and other reference materials. The final mark will be comprised of: 50% for a final examination; 20% for an essay (2000 words); and 30% for class participation.

Exclusions: SPAB08, SPAB09

Session: Winter Day

HUMB18S Modern Italy / D. McAuliffe

A study of the various complex cultural elements which were involved in the formation of modern Italy.

The course acquaints the student with some of the cultural and social features of contemporary Italy as they are reflected in a variety of literary, historical and journalistic texts. After a brief introduction of the topics presented in the readings, the instructor will lead the class in discussion during the weekly two-hour classroom sessions. Students are expected to participate in these classroom discussions (1/6 of total grade), make one oral and one written presentation of topics agreed upon with the instructor (1/2 of total grade); and write a final examination (1/3 of total grade).

Exclusion: ITAB20

Session: Winter Day

HUMB19S Beyond Consciousness / W.J. Bancroft

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 1979-80, Beyond Consciousness will deal with the theory and practice of communication. Emphasis will be placed on: models of communication, semiotics, the performing arts.

A detailed bibliography for this course will be provided on the first day of class.

One major essay or research paper; one take-home or class test (or examination); classroom assignment(s).

Exclusion: HUMB51

Prerequisite: One course in psychology, philosophy, or literature.

Session: Winter Day

HUMB23S The Age of Augustus / I.R. McDonald

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 Vergil, Horace, and Propertius on the other. Slides will be shown and studied frequently, and discussion encouraged.

Evaluation will be by short written assignment, essay, and examination.

Session: Winter Day

HUMB25F The Age of Homer / M.E. Irwin and staff

The world of Homer's heroes as described in the *Iliad* and revealed through archaeology. The course will cover the development of early Greek epic poetry and will offer a survey of Mycenaean remains. Required reading will include Homer's *Iliad*.

The objectives will be to investigate the Homeric Poems as sources of history for a period of Greek civilization for which no substantial ancient documents exist (ca.1500-1000 B.C.); to appreciate the poetic qualities of the poems and to understand something of the circumstances under which they were composed; to impart a knowledge of the cultures described by Homer and known through excavation (e.g. Mycenae, Pylos, Ithaca, Troy, etc.).

There will be two lectures a week, illustrated by slides where appropriate.

Readings will be the *Iliad* and the *Odyssey* in translation; other reading as assigned.

Evaluation will be based on one class test; one essay; and a final examination.

Session: Winter Day

HUMB28Y Major Religious Traditions, East and West / Information available at a later date in Room H525A.

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.

Students are encouraged to become familiar with the basic writings of the various religions. The text is John A. Hutchinson, *Paths of Faith*.

Session: Winter Evening

HUMB33Y World Visions from the late Middle Ages to the Renaissance / Co-ordinator: D. McAuliffe

An introduction to man's understanding of himself and his interpretation of reality through a study of literature, art and society from Medieval and Renaissance southern (including Islamic) and northern Europe.

The aim of this course is to acquaint the student with some of the great achievements of Western man during the twelfth to the sixteenth centuries. Each literary masterpiece will be introduced in its historical, cultural setting. There will be guest lecturers speaking about artistic and philosophical developments of the place and period under examination. Classroom discussions will be lead by the co-ordinator in collaboration with guest specialists. Students will be expected to participate in classroom discussions (1/6 of total grade); make one oral/written presentation each term (1/3 of total grade); write one mid-term and one final examination (1/2 of total grade). There will be two hours of classtime per week which will be supplemented by tutorials as necessary. For bibliography and further details please contact co-ordinator in R3243.

Session: Winter Day

HUMB35F 'The Ulysses Factor' / I.R. McDonald

The literature of exploration: a study of a recurring motif - the *Odyssey* - in Greek, Latin, Medieval, and Modern literature, based on the Homeric 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 Vergil (*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 J.R.L. Anderson's theory of the 'Ulysses Factor'.

Exclusion: HUMB07F/S

Session: Winter Evening

HUMB37F Atlantis / William Graham

A study of the legend of Atlantis from its origins in the writings of Plato to its connections with modern archaeological excavations on the islands of Crete and Thera.

Atlantis is the paradigm of a legend, of the golden age and the great disaster, and of the search for lost civilizations. It is also a search for what is enduringly human. Its problems involve historical sources, literary developments, scientific investigations, philosophical, religious and occult speculations from Plato to the present. Texts: Plato, *Timaeus and Critias*; Donnelly, *Atlantis, The Antediluvian World*; Cayce, *On Atlantis*; Mavor, *Voyage to Atlantis*. Work: one paper, several short reading tests.

Exclusion: HUMB09

Session: Winter Evening

HUMB42S Dostoevsky and the West / R. Cockrell

European influence on the thought and writing of Dostoevsky.

The aim of this two hour a week course is to place Dostoevsky in his European context, to try to determine how far his writings reflect the influence of authors such as Balzac and Dickens and how far he reacted against Western ideas and culture in general. Particular works studied will be *Notes from Underground*, *Crime and Punishment* and *The Devils*.

As this course will be taught by an exchange scholar from Exeter, England, teaching method and evaluation will be announced later.

Session: Winter Day

HUMB45S The Spanish Civil War: Fact to Fiction / R. Skyrme

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. Evaluation is based on term tests, a term paper, and class participation.

Session: Winter Day

HUMB50S Machiavelli and Aspects of the Italian Renaissance / A. Franceschetti

A study of the influence of such works as Machiavelli's *The Prince* and Castiglione's *The Courtier* on Italian and European society in the Renaissance.

The purpose of this course is to acquaint the student with the ideas, mentality, social and cultural attitudes of man during the Renaissance. After a general introduction to the main aspects of the period, its differences from the Middle Ages and its historical background, attention will focus on Machiavelli's *The Prince* and Castiglione's *The Courtier*. These works will be examined both from the point of view of their significance in the context of Renaissance thought and for their impact on the development of European politics and of the ideal of the gentleman up to modern times. There will be three class hours per week. The final mark will be based on term tests (40%), one home assignment (30%) and class participation (30%).

Exclusion: ITAB33FS

Session: Winter Day

HUMB54F The Crisis of Contemporary Society in Modern Italian Drama / Information will be available at a later date in Room H332A.

An examination of man's alienation from family and society and of his search for identity in the works of Pirandello and other major Italian dramatists.

Selected plays of Pirandello, Betti and De Filippo will be studied in detail and discussed in the light of such topics as 'guilt', 'punishment', 'responsibility', 'search for identity' and 'the role of the family within contemporary society'. Attention will also be paid both to the historical background against which the plays were written and to the particular dramatic forms used by the playwrights, ranging from 'naturalism' to 'theatre of the absurd', to myth. There will be three hours of lectures per week. The evaluation will be based on class participation (20%), essay(s) written at home (50%), final exam (30%).

Exclusion: ITAB15, ITAB16, ITAB27

Session: Winter Day

HUMB61S Women in Ancient Greece / M.E. Irwin

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. Reading in translation will include selections from Homer, Hesiod, the lyric poets, the historians, philosophers and dramatists.

The course will study what we know of women in ancient Greek society, 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.

There will be one two-hour meeting each week; lecture followed by discussion.

Evaluation will be an essay and final examination.

Exclusion: HUMB41F/S

Session: Winter Evening

HUMB71F Italian Cinema / Information will be available at a later date in Room H332A.

This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian. All discussions and explanations will take place in English and all films have English subtitles.

Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be shown during the course. The course will take place during four hours per week: there will be an introduction to the film followed by film viewing and discussion. The evaluation will be based on class participation (30%), essay(s) written at home (30%), final exam (40%). Specialists in Italian will be expected to do their written work in Italian.

Exclusion: JHIB90

Session: Winter Evening

HUMC10H Humanities Seminar / Co-ordinator: P. Gooch

A special half-credit seminar course, taken normally after the completion of ten credits. Each member of the seminar gives a report of individual projects undertaken by him.

This seminar is for those registered in the B.A. in Humanities Programme. It is required for those who have completed ten courses; other interested students may attend the seminars.

Topics for the seminars should be chosen in consultation with the co-ordinator. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.

Evaluation is based upon two papers (or one longer paper) and the seminar performances.

Prerequisite: Any ten courses.

Session: Winter Day

HUMC95-99Y Individual Study Year / Staff

An opportunity for advanced students to spend a year following their own studies under the supervision of a committee of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen areas, and will take 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 1979. (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.

HUMANITIES COURSES NOT OFFERED in 1979-80.**HUMA10Y Introduction to the Study of Religion****JHSB04Y The Bloomsbury Group**

Prerequisites: Normally three courses selected from Art History, Economics, English, Philosophy or Political Science at least one of which should be in English Literature.

HUMB17Y The European Experience: Man and Society in the Twentieth Century French and Italian Novel

Exclusion: HUMB03Y

HUMB20Y Primitive Christian Literature and Myth

Prerequisites: No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.

HUMB22F/S Age of Pericles**HUMB24F/S The Age of Nero****HUMB27S Science Fiction****HUMB34F/S Hercules: Man of Action**

Exclusion: HUMB06

HUMB36Y Orpheus: The Quest for Beauty

Exclusion: HUMB08Y

HUMB38F/S Utopia: From More to Huxley

Exclusion: HUMB10

HUMB39F/S Fantasy in Narnia and Middle Earth

Exclusion: HUMB05

HUMB40Y	Russian and English Nineteenth Century Fiction <i>Exclusion:</i> HUMB31Y
HUMB43F/S	The Emergence of Modern Prose <i>Exclusion:</i> HUMB01
HUMB44F/S	Disaster and the Literary Imagination <i>Exclusion:</i> HUMB02
HUMB55Y	The Twentieth Century Latin American Novel and The European Tradition
HUMB70Y	Introduction to Cinema
JHEC13Y	A Seminar in Literary Theory and Practice <i>Exclusion:</i> (ENGC13); (HUMC13); (HUMC02) <i>Prerequisites:</i> Any three B-level courses <i>Limited Enrolment:</i> 30
HUMC19Y	Contemporary Fiction and its Backgrounds <i>Prerequisite:</i> One B-level course in Literature, or permission of instructor.
HUMC20Y	Jesus in Early Christianity and Judaism <i>Prerequisite:</i> HUMB20
HUMC21F	Paul: Apologist, Envoy and Theologian <i>Prerequisite:</i> HUMB20 or CLAB23
HUMC22S	John: Gospel and Letters <i>Prerequisite:</i> HUMB20 or CLAB23
HUMC25Y	The University <i>Prerequisites:</i> Any two B-level courses

ITALIAN

Discipline Representative: Antonio Franceschetti

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. After ITAA01 students may take ITAB01 which is a prerequisite for literature courses as well as for the more advanced language courses. Students with Grade 13 Italian (or equivalent) and students from ITAA11 can take ITAB11 as a prerequisite for literature and more advanced language courses. In all courses, emphasis is given to the spoken and written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as 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 Arts, Music, and English, French, Latin, or 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 should consult Italian as well as the Modern Languages and Literatures entries in the Major Programmes section of the College Calendar.

Students are not allowed to take any A-level courses in Italian while taking or after completing any B-level course in Italian.

Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language in that course.

Major Programme in Italian

Supervisor of Studies: A. Franceschetti

Students are required to complete at least nine full courses (or equivalent) in Italian, including the following:

ITAB31Y Dante and Medieval Culture

One year course (or equivalent) on the Renaissance

One year course (or equivalent) on Seventeenth and Eighteenth Century literature

One year course (or equivalent) on Nineteenth and Twentieth Century literature

One half year course on the history of the language

ITAC01Y Language Practice

Language requirements will be waived in the case of students judged to have highly advanced knowledge of Italian, by permission of the Supervisor of Studies. Equivalent courses in literature will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor of Studies.

ITAA01Y Introductory Italian / D. McAuliffe

An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the corequisite course A02H. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings commencing as early as advancement in the textbook permits. A programme is also provided in the language laboratory for those who wish to make use of it. Students are expected to participate in classroom exercises (40% of total grade); hand in written assignments completed outside the classroom (20% of total grade); and write monthly exams (40% of total grade). There are three hours weekly of classtime.

Exclusion: ITAA11

Corequisite: ITAA02H. It is strongly recommended that students enrolled in ITAA01Y and ITAA02H take ITAA03S concurrently with them in the Spring term

Session: Winter Day

ITAA02H Introductory Italian Language Practice / D. McAuliffe

A full year course for one half credit. 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 practice 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. The grade is based on classroom participation (33%); oral reports (33%); and oral examinations (34%).

Corequisite: ITAA01

Session: Winter Day

ITAA03S Conversation II / D. McAuliffe

Practical application of the language structures introduced in ITAA01Y and ITAA11Y.

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 (1/3 of total grade); make oral presentations (1/3 of total grade); and take an oral examination (1/3 of total grade). There are three hours weekly of classtime.

Corequisite: ITAA01 or ITAA11

Session: Winter Day

ITAA11Y Elementary Italian / *Information will be available at a later date in Room H332A*

An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

The course, designed for native speakers, aims at giving a basic knowledge of speaking, reading and writing Italian. The main objective is to free the student of the phonological, lexical and grammatical interference from both dialects and English, as commonly misused in the Italian community. Basic grammar rules will be studied and modern prose passages will be analyzed from the point of view of grammatical structure, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. There will be three hours of lecture per week; the use of the language laboratory is highly recommended. Evaluation will be on the basis of oral and written exams (70%), class participation and work done at home (30%).

Exclusion: ITAA01

Corequisite: It is strongly recommended that students enrolled in this course take ITAA03S concurrently with it.

Session: Winter Day

ITAB01Y Intermediate Italian I / *Information will be available at a later date in Room H332A*

The continuation of ITAA01 (Introductory Italian). Intensive review of the grammar, with drills, exercises and compositions.

The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of modern Italian passages in prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted in Italian whenever possible. There will be three hours of lectures per week. The final mark will be based on six written exams (70%), class participation and work done at home (compositions and written grammar exercises, 30%).

Exclusions: (ITAB02); ITAB11

Prerequisites: ITAA01 or equivalent

Corequisite: It is strongly recommended that students enrolled in this course take ITAB03F and B06S concurrently with it.

Session: Winter Day

ITAB03F Intermediate Conversation I / *A. Franceschetti*

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 those who need it to improve their oral/aural skills in Italian. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on the topics chosen and by preparing the specialized vocabulary of those topics. At least two oral reports on an agreed-upon topic related to Italian culture and civilization will be required of each student. The course will meet three hours per week. The final mark will be based on class participation (40%), oral reports (30%) and final oral examination (30%).

Corequisite: ITAB01 or ITAB11

Session: Winter Day

ITAB06S Intermediate Conversation II / *Information will be available at a later date in Room H332A*

A continuation of ITAB03.

This course aims at developing as fully as possible the student's facility with the language and will continue the program outlined in ITAB03. The same evaluation will be used as for ITAB03.

Corequisite: ITAB01 or ITAB11

Session: Winter Day

ITAB11Y Intermediate Italian II / *Information will be available at a later date in Room H332A*

The continuation of ITAA11Y (Elementary Italian).

The course concentrates on explaining and practicing the more difficult parts of Italian grammar. This will alternate with reading and discussion of modern Italian passages in prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted in Italian. There will be three hours of lectures per week. The evaluation will be based on six written exams (70%); class participation and work done at home (30%).

Exclusions: ITAB01 (ITAB02)

Prerequisites: ITAA11; Grade XIII; or equivalent

Corequisites: It is strongly recommended that students enrolled in this course take ITAB03F and ITAB06S concurrently with it

Session: Winter Day

ITAB20S Modern Italian Culture and Civilization / *Information will be available at a later date in Room H332A*

An introduction to the events and ideas which have contributed to the making of modern Italy.

This course is conducted in Italian. It aims to acquaint the student with the complex social and cultural milieu in which life is conducted in present-day Italy. Readings from a variety of literary and historical texts as well as selections from newspapers and periodicals form the basis for the three weekly hours of discussion of topics outlined by the instructor. During the course of the term the student is expected to contribute to the classroom discussion (1/3 of total grade); make at least one oral/written presentation on a topic agreed upon with the instructor (1/3 of total grade); write a final exam (1/3 of total grade).

Exclusion: HUMB18

Prerequisites: ITAB01 (ITAB02Y) or ITAB11

Session: Winter Day

ITAB21Y Introduction to Italian Literature / *D. McAuliffe*

A survey of Italian literature, from the Middle Ages to the present.

This course is designed to provide the student with a general background in Italian literature. The first part of the course is concerned with acquainting the student with the methods and language of critical analysis of literary texts. In the second part of the course major representative figures of Italian literature will be studied in the context of major literary movements. One hour per week will be given to the instructor's presentation of the material; one hour will be given to discussion by the students of the texts being studied; and an additional hour of tutorial per student every second week will be available to guide the students in their written analyses of the texts. The grade will be based on class participation (20%); written essays (40%); exams (40%). Normally conducted in Italian.

Prerequisite: ITAB01 (ITAB02) or ITAB11

Session: Winter Day

ITAB27F Modern Italian Theatre from Pirandello to the present day / *Information will be available at a later date in Room H332A*

A comprehensive view of the main currents and themes in Italian theatre during the twentieth century.

The course will study the development of Pirandello's theatre with its revolutionary innovations in form and content, and will show how these innovations influenced all subsequent Italian drama. Special attention will be given to Pirandello's use of "naturalism", of the "teatro del grottesco" and of myth, and to his concern with the problems of identity, responsibility and guilt. Pirandello's work will be related to the works of other Italian dramatists, and in particular to Betti, Fabbri and De Filippo.

There will be three hours of lectures per week. The evaluation will be based on class participation (20%), essay(s) written at home (50%), and a final exam (30%).

Exclusions: (ITAB15), (ITAB16), HUMB54

Prerequisites: ITAB01 (ITAB02) or ITAB11

Session: Winter Day

ITAB33S Machiavelli and Renaissance Thought / A. Franceschetti

The origins of Italian Humanism with Petrarch and Boccaccio; its development in the XV Century with Valla, Ficino and Pico; its full flowering in the Renaissance with the political theories of Machiavelli and Guicciardini. A study of Castiglione's figure of *The Courtier*.

The purpose of this course is to acquaint the student with the ideas, mentality, social and cultural attitudes of man during the Renaissance. After a general introduction to the main aspects of the period, its differences from the Middle Ages and its historical background, attention will focus on Machiavelli's *Il Principe* and Castiglione's *Il Cortegiano*. These works will be examined both from the point of view of their significance in the context of Renaissance thought and for their impact on the development of European politics and of the ideal of the gentleman up to modern times. There will be three class hours per week. The final mark will be based on term tests (40%), one home assignment (30%) and class participation (30%).

Exclusion: HUMB50

Prerequisites: (ITAB01) or (ITAB02) or ITAB11

Session: Winter Day

ITAB50F-54F**ITAB55S-59S****ITAB60Y Supervised Reading / The Staff**

These courses are designed to provide advanced students an opportunity for independent studies of specific aspects of Italian language and literature at the student's choice. The student is expected to do most of the reading by himself and to meet regularly with a faculty member to discuss problems arising from the chosen topic of study. The teaching method and the evaluation will vary according to the subject matter and the individual student. Interested students should contact Professor A. Franceschetti.

Prerequisite: ITAB01 (ITAB02) or ITAB11

Corequisite: ITAB21 or ITAB31

Session: Winter Day

Italian Cinema

(See listing under Humanities HUMB71F)

For Italian Courses in translation

(See listing under Humanities):

HUMB18S Modern Italy

HUMB50S Machiavelli and Aspects of the Italian Renaissance

HUMB54F The Crisis of Contemporary Society in Modern Italian Drama

JHIB90S Italian Cinema

(See listing under Section for Joint Courses)

ITAC01Y Language Practice / A. Franceschetti

Advanced language course focusing on complex problems of Italian grammar, with readings, translations and compositions.

This course is designed to give the student an opportunity to improve his knowledge of written and oral Italian 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 do translations and to write short compositions. A selection of passages of modern Italian authors will provide the necessary material for analysis of styles, summaries and paraphrases. There will be three hours of class per week. The final mark will be based on term tests (50%), class participation and work done at home (30%) and oral presentation (20%).

Prerequisites: ITAB01 (ITAB02) or ITAB11

Session: Winter Day

COURSES NOT OFFERED in 1979-80

ITAB04F/S Advanced Composition
Prerequisite: ITAB01 (or ITAB02)

ITAB05F/S Practical Translation
Prerequisite: ITAB01 (or ITAB02)

ITAB12F/S The Twentieth Century Novel
Prerequisite: ITAB01 (or ITAB02)

ITAB13F/S**Modern Italian Poetry**

Prerequisite: ITAB01 (ITAB02)

ITAB31Y**Dante and Medieval Culture**

Prerequisite: ITAB01 (or ITAB02)

ITAB32F/S**Petrarch and Boccaccio**

Prerequisite: ITAB01 (or ITAB02)

ITAB34F/S**The Renaissance Epic**

Prerequisite: ITAB01 (or ITAB02)

ITAB35F/S**Italian Sixteenth Century Theatre**

Prerequisite: ITAB01 (or ITAB02)

ITAB36F/S**Lyric Poetry of the Renaissance (from Poliziano to Michaelangelo)**

Prerequisite: ITAB01 (or ITAB02)

ITAB40F/S**Reformation and Baroque Literature**

Prerequisite: ITAB01 (or ITAB02)

ITAB41F/S**Italian Eighteenth Century Theatre**

Prerequisite: ITAB01 (or ITAB02)

ITAB43F/S**Foscolo and Leopardi**

Prerequisite: ITAB01 (or ITAB02)

ITAB44F/S**Manzoni**

Prerequisite: ITAB01 (or ITAB02)

ITAB45F/S**The Nineteenth Century Italian Novel in Transition**

Prerequisite: ITAB01 (or ITAB02)

JOINT COURSES

The following courses are offered jointly by these disciplines:

Biology and Chemistry

JBCB35Y Introductory Biochemistry

JBCB36H Laboratory in Chemistry

Commerce and Economics

JCEB54S Industrial Relations

JCEB72F Analysis for Decision Making I

JCEB73S Analysis for Decision Making II

JCEC02Y Corporation Finance

JCEC40S Public Policy Towards Business

Commerce and Sociology

JCSB27Y Organizational Behaviour

Mathematics and Computer Science

JMCC31F Combinatorics

JMCC51S Numeric Methods

Mathematics and Philosophy

JMPB50F Symbolic Logic

JMPB51S Symbolic Logic II

Physics and Astronomy

JPAC10Y Relativity and Cosmology

Physics and Mathematics

JPMC42S Advanced Classical Mechanics

JBCB35Y Introductory Biochemistry / J.W. Gurd

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

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

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

The text used is: *Biochemistry: the Molecular Basis of Cell Structure and Function* - by A.L. Lehninger, Worth Publishers Inc. Evaluation is based on three one hour lecture exams; one two hour Christmas exam and one final exam.

Exclusions: (BIOB35); (CHMB35)

Prerequisites: BIOA03; CHMB05

Session: Winter Day

JBCB36H Laboratory in Biochemistry / J.W. Gurd

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

The course will introduce students to practical and theoretical aspects of techniques used in biochemical research. Experiments will introduce a range of experimental procedures, including: Spectrophotometry; chromatography; radioisotopes; electrophoresis; protein fractionation; etc.

The teaching method will consist of three hours of laboratory work plus one hour of lecture each week. No text will be required but it is suggested that students obtain a copy of *Biochemistry* by A.L. Lehninger. Students will be evaluated on their performance in the laboratory, lab reports, and examination. (two hour exam at Christmas and a final exam).

Exclusions: (BIOB36); (CHMB36)

Prerequisites: BIOA03; CHMB05

Corequisite: JBCB35

Session: Winter Day

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.

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

Prerequisite: ECOA01

Session: Winter Evening

JCEB72F Analysis for Decision Making I

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

Exclusions: (COMB26), (ECOB71)

Prerequisites: MATA56 OR MATA58 OR CSCA56 OR CSCA58, OR MATA22 OR MATA26 OR MATA55, ECOB03

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.

Exclusions: (COMB26), (ECOB71)

Prerequisites: ECOB11, JCEB72

Session: Winter Day

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.

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

Prerequisites: COMB01; ECOB01; ECOB11

Session: Winter Day

JCEC40S Public Policy Towards Business / R. Saunders

A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include regulation in theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and public ownership.

Prerequisite: ECOB41

Session: Winter Day

JCSB27Y Organizational Behaviour / J. Hannigan

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

Exclusions: (COMB27) (SOCB27)

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

Session: Winter Day, Winter Evening, Summer Evening

JMCC31F Combinatorics / E. Mendelsohn

A brief survey of the field of discrete mathematics with emphasis on problem solving. Elementary counting, generating functions and difference equations, permutations with restriction, Polya counting, graphs, network flow problems, balanced incomplete block designs, incidence structures.

Prerequisites: MATB40F and at least one other B level course in mathematics or computer science.

Other recommended Courses: CSCA58F

Session: Winter Day

This course not to be offered 1980-1981.

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, and a short mid-term examination will be set. There will be a final examination.

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

Exclusion: (MATB53)

Prerequisites: MATA40, MATB42 or MATB55, CSCA68

Session: Winter Day

JMPB50F Symbolic Logic / A. Gombay

An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, 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 and R. Montague, *Logic: Techniques of Formal Reasoning (for deductive techniques only)*.

Exclusions: PHLB50; MATB80

Session: Winter Day

JMPB51S Symbolic Logic II / A. Gombay

A continuation of JMPB50F.

We shall deal with such topics as identity, definite descriptions and the meta-theory of standard elementary logic.

Exclusions: PHLB51; MATB85

Prerequisite: JMPB50 or PHLB50 or MATB80

Session: Winter Day

JPAC10Y Relativity and Cosmology

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

This course may not be offered in 1979/80. Consult Divisional Office or Astronomy discipline representative.

Exclusions: ASTC10; PHYC10

Prerequisites: PHYB01; JPMC42, PHYB18F would be desirable

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.

Exclusions: (PHYB46, MATB46, PHYC42, MATC42)

Prerequisites: MATC41 or MATB56, PHYA01 or PHYA02

COURSES NOT OFFERED in 1979/80

Linguistics and Psychology

JLPB55F Psycholinguistics

Exclusion: LINB05, PSYB71

Prerequisite: LINA01Y

Mathematics and Computer Science

JMCC48S Applied Algebra

LATIN

Courses are offered in introductory Latin (LATA01, LATA10) and Latin literature (LATB01, LATB30, etc.).

For further information see under Classical Studies.

LATA01Y	Introductory Latin
LATA10F	Introduction to Latin Authors
LATB01S	Catullus
LATB30F-33F	
LATB35S-39S	
LATB40Y	Supervised Reading
LATC01F-02S	Independent Studies

LINGUISTICS

Discipline Representative: D. Woods

Linguistics is the Science of Language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINA01, LINB11, and LINB04). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LINB07, JLPB55, LINB15 and other courses.

Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LINA04, LINB09, LINB26 and LINB27.

For those majoring in General Linguistics, Psycholinguistics, Sociolinguistics, see the appropriate section of the Calendar. In addition to the courses listed there, the following courses in other disciplines will be of interest.

ANTB16	Ethnic Cultures of Canada
ENGB01	Old English Language and Literature
FREB25	Introduction to French Linguistics
FREB43	The French Language in Canada
FREB46	Principles of Lexicology and Their Application to Modern French
GERB36	Structure of German
GERB33S	History of German
GERC23	Introduction to Middle High German
PHLB80	Philosophy of Language

Major Programme in Linguistics

Supervisor of Studies: J.D. Woods

The major programme in Linguistics may be taken in one of three ways, each of which requires five basic courses and further courses in other related disciplines as set out in the sub-programme.

General Linguistics Sub-programme

Students must complete within a twenty course programme the following courses in Linguistics:

- (1) LINA01 or LINA03 General Linguistics
- (2) LINB11 or LINB03 and LINB06 Syntax and Semantics
- (3) LINB12 or LINB02 and LINB04 Phonology and Historico-Comparative
- (4) LINB07 or two of JLPB55, LINB15, LINB27 Sociolinguistics or Psycholinguistics
- (5) LINC21 or LINC22 or LINB10

Students must also complete two full courses of language study in a language which is neither their native tongue nor a language which they studied before entering the College. They also must complete two courses in Linguistics or in some related field, selected with the approval of the Supervisor of Studies.

Psycholinguistics Sub-programme

In addition to the five basic courses listed under the General Linguistics Programme, which must include two of JLPB55, LINB15, and LINB27, students must complete:

Two further courses in Linguistics to be approved by the Supervisor of Studies or two full course equivalents of Language study in a language which is neither their native tongue nor a language which they studied before entering the College, and four full-course equivalents from among the following:

PSYA01 or (PSYA02)	Introduction to Psychology
PSYB07	Data Analysis in Psychology
PSYB20	Developmental Psychology
PSYB40	Learning
PSYB41	Operant Conditioning
PSYB50	Sensation and Perception
PSYB51	Perceiving and Knowing
PSYB52	Human Information Processing
PSYB57	Human Learning and Memory
PSYB60	Brain Mechanisms and Behaviour: I
PSYB65	Biological Foundations of Behaviour

Students are also encouraged to complete a course in Calculus or Statistics.

Sociolinguistics Sub-programme

In addition to the five basic courses in Linguistics (which must include LINB07) under the General programme, students must complete:

Two further courses in Linguistics to be approved by Supervisor of Studies or two full course equivalents of Language study in a language which is neither their native tongue nor a language which they studied before entering the College, and all of the following courses:

SOCA01 or SOCA02	Introduction to Sociology
SOCB01	Methods in Social Research

And any two of:

SOCB10 Social Stratification
SOCB13 Canadian Society
SOCB16 Social Change

LINA01Y General Linguistics / D.M. James

In the introductory course various methods of linguistic analysis will be discussed, as well as the form and content systems which comprise language. Among the questions considered will be the processes of producing and comprehending speech, first and second language acquisition, and the ideal structures which underly actual utterances.

Who talks, why and where? Did you ever meet anyone who saw a talking dog? How did the first people learn to talk? How do you make talking noises? What are those noises like? How do you know what any of this means? How many languages are there anyway? Did you ever meet anybody who met anybody who saw a talking dog? There will be lectures, discussions, films.

Exclusion: (LINA03)

Session: Winter Day

LINA04F Introduction to Language / S. Whalen

A general introduction to the nature of language. The relationship of written and spoken language. History of English and related languages. Languages of the world. The problem of bilingualism in Canada. Animal communication. Speech disorders.

This is a non technical introduction, it does not serve as a prerequisite for further linguistic courses. The course will try to examine language communication: under what conditions it takes place, how it modifies and affects the human condition and the realities of social life and is in turn modified and affected by them. There will be lectures, discussions, films. The text used will be Haugen/Bloomfield *Language as a Human Problem* (1974). Evaluation will be on the basis of two term tests and one term paper.

Exclusion: LINA01

Session: Winter Day

LINA04S Introduction to Language / D.M. James

A general introduction to the nature of language. The relationship of written and spoken language. History of English and related languages. Languages of the world. The problem of bilingualism in Canada. Animal communication. Speech disorders.

This is a non-technical introduction; it cannot be used as a prerequisite for further linguistic courses. The course will try to answer questions like: In what ways can languages differ from one another: In what ways are they all alike? How do languages change? How did language originate? How do children learn to speak? Are some languages better than others? Do men and women speak differently? There will be lectures and discussions.

Exclusion: LINA01

Session: Winter Evening

LINB02S Phonology / J.D. Woods

The sounds of language and their analysis: theoretical approaches to the sound patterns of various languages. Synchronic and diachronic views of sound shift and sound change.

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. Evaluation is based on class participation and tests; exact proportions of these components in the final grade will be determined later.

Exclusion: LINB12

Prerequisite: LINB09

Session: Winter Day

LINB04S Historical and Comparative Linguistics / Information will be available at a later date in H525A.

Language change and language relationships: linguistic typology; language universals. The Indo-European family and other language families.

This course is mainly a study of the process of linguistic change through time. There will be a survey of the internal history of the Indo-European language family and discussion of selected topics drawn from various languages within the group. The course will meet three times a week for one hour. Evaluation will be based on a mid-term and final examination, one research paper and class presentations. Texts will be Theorora Bynon, *Historical Linguistics*, (Cambridge University Press, 1977), and Alan Keiler, *Readings in Historical Linguistics*, (Holt Rinehart, New York, 1972).

Exclusion: LINB12

Prerequisite: LINB02

Session: Winter Day

LINB07Y Sociolinguistics / S. Whalen

The structure and use of language as it relates to social and cultural functions. The application of socio-linguistic research to Canada will comprise approximately half of the year's work.

The course has a twofold objective: theoretical and practical. The theoretical part deals with the speech situation, social implications of speech varieties, language maintenance, bi- and multi-lingualism, role of language in shaping national identity and influencing political boundaries. On the practical side, students participate as a group in actual research, collecting and analyzing data and preparing a report of their findings. The text will be *The Social Significance of Speech*, T.J. Platt & H.K. Platt, North Holland Publishing, 1975. Evaluation will be on the basis of three term tests, class presentations and participation in research.

Prerequisite: LINA01 or (LINA03) or SOCA01 or SOCA02

Session: Winter Day

LINB08S Scripts / R.I. Binnick

Alphabets and other writing systems, their history, development and use. Hieroglyphics, Cuneiform, and other ancient scripts. History of the Latin and related alphabets.

There will be lectures and discussion, some assignments. Evaluation will be on the basis of one in-class exam, one take-home exam; assignments may be graded, but the final grade may not be based on these grades.

Prerequisite: LINA01 or LINA04

Session: Winter Day

LINB09F Phonetics / J.D. Woods

The physiological and acoustic bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved. Evaluation is based on class participation and tests; exact proportions of these components in the final grade will be determined later.

Prerequisite: LINA01

Session: Winter Day

LINB11Y Syntax and Semantics / D.M. James

The study of sentence structure, including the major grammatical processes, e.g. transformational rules, the principle of the cycle, etc., the relationship between syntax and semantics; grammatical and lexical meaning; literal vs. conveyed meaning, presuppositions, the influence of extra-linguistic context on language.

The emphasis will be on language as a code system used for communication. What are the rules of the communication game? How do people manage to translate noises into ideas and vice-versa? Students will be expected to analyze data and propose and argue for solutions. There will be lectures and discussions. Evaluation will be on the basis of four or five examinations, partly in-class and partly take-home; one paper. There will also be frequent homework assignments, to be handed in although not necessarily graded.

Exclusion: (LINB03); (LINB06)

Prerequisite: LINA01 or (LINA03)

Session: Winter Day

LINB15S Developmental Psycholinguistics / P.H. Salus

The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing. This course is a continuation of JLPB55.

All you always wanted to know about how kids learn to talk, but were afraid to ask. There will be lectures and discussions. Evaluation will be on the basis of one one-hour test, three brief (three page) "papers" and one final examination.

Prerequisites: (LINB05) or JLPB55 or LINB27

Session: Summer Evening

LINB26S Languages of the World / S. Whalen

A survey of the world's languages; their manifold diversity and underlying uniformities. Attempts at classification: typological, genetic and areal. Methodological approaches and sample studies.

Presentation of the world's known language families and their interrelation. Comparison of their phonological, grammatical and lexical structures; the fundamental laws governing semantic and structural universals of natural languages. Theoretical criteria used in language classifications. There will be two hours of lecture and discussion per week. Evaluation will be based on two one-hour tests, one term paper, and class participation.

Prerequisite: LINA01, LINA04, or one course in Psychology or Anthropology

Session: Spring Day

LINB27F Animal Communication / R.I. Binnick

The ways in which various non-human species convey information. Crickets and bees; fish, songbirds; geese, canines; primates other than man will be studied. Visual, olfactory and auditory modalities.

Where do bees find nectar? How does a cygnet find his mother? Which wolf is boss? Why do fish school? How does a stickleback know when he's in "foreign territory"? Who are Clever Hans, Viki, Gua, Sarah, Washoe, and Lana? Who are Lorenz, Smith, Thorpe, Tinbergen and von Frisch? There will be lectures, discussions, and films. Evaluation will be on the basis of one in-class test, a paper, and a final examination.

Prerequisite: One course in LIN, PSY, SOC, or ANT

Session: Winter Day

LINB28F Language and Sex / D.M. James

Linguistic differences between males and females as regards the structure and use of language, and what languages can tell us about how males and females are viewed by their speakers.

Do women speak more "correctly" than men? Is women's speech more polite? Do men speak more "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. Evaluation will be based on two examinations and a project.

Prerequisite: One full course or equivalent in LIN, SOC, ANT, ENG, or PSY

Session: Winter Day

LINC01F**LINC02S****LINC03F****LINC04S****LINC05Y Supervised Reading / Staff**

Interested students should contact Professor J.D. Woods, Discipline Representative. The aim of these courses is to allow the advanced student of Linguistics to engage in research; this research is normally at a level which is more advanced than other 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 course in Linguistics; permission of instructor.

Session: Winter Day

This course puts linguistic theory to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.

The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year. Evaluation is based on class participation and the quality of each member's contribution to the grammar; exact proportions of these components in the final grade will be determined later.

Exclusion: LINB10

Pre- or Corequisite: LINB02, LINB11

Session: Winter Day

COURSES NOT OFFERED in 1979-80

JLPB55F Psycholinguistics

LINC10Y Studies in Syntax and Semantics

LINC12F Dialectology

LINC22Y Comparative Study of Language Family or Area

MATHEMATICS

Staff member responsible for curriculum: M. Evans

Mathematics has emerged over the centuries from primitive needs to count and to measure into a modern sophisticated system of inter-related axioms, theorems, conjectures and proofs. Some areas of mathematics are very abstract, being intellectual studies devoid, at present, of any practical application. Research in these branches of the subject arises from pure creative curiosity, from the need to understand, and to prove to others, that certain consequences follow rigorously, without ambiguity, from a set of precisely formulated mathematical definitions and axioms. However, many mathematical discoveries have very practical applications, because once a problem has been described in mathematical terms it is easier to analyze. Of course, not all problems can be formulated in this manner, but the applications of mathematics extend beyond the physical sciences and engineering to all areas of knowledge that are subject to quantitative analysis. Sometimes mathematical results guide and stimulate analogous scientific research, and sometimes mathematical theories originate in science, leading on the one hand to more abstract theorems and on the other to further applications.

The Mathematics Programme is divided into four sections:

- (a) MATA22 is a pre-requisite for some non-science programmes. Completion of this course does not qualify the student to proceed to further courses in Mathematics or Computer Science.
- (b) MATA26; B41-B42, B52-B57, C41, JPMC42. These courses, primarily for science and social science students, emphasize practice in mathematics, rather than full rigour.

- (c) JMPB50-51.
A course in logic, listed as a joint course in mathematics and philosophy.
- (d) All other courses in mathematics emphasize rigour. Many of these courses are required for major programmes in mathematics or physics.

The student of mathematics should also consult the list of courses offered under 'Computer Science'.

'A' Level - Calculus Courses

MATA55Y	Calculus Winter, Scarborough
MATA26Y	Calculus with linear algebra Winter, Summer Evening, Scarborough
MATA22Y	Techniques in calculus Winter, Scarborough

Comparison

MATA55 is a theory course. The emphasis is on why theorems are true (hence on rigorous proofs) and students are expected to learn how to prove theorems. This course together with MATA40F-MATA45S is essential for students who wish to specialize in mathematics or theoretical physics.

MATA26 is a practical course, taught at a high level. There is no attempt to provide rigorous proofs. On the other hand, students are expected to learn to solve difficult and sophisticated problems, and to master the necessary techniques. There is an emphasis on applications. MATA26 is advisable for students who wish to take some courses in physical science or mathematics in higher years. Students enrolling in MATA26 will be expected to be familiar with the material of Grade 13 calculus.

MATA22 is a calculus course for students who have had no previous experience with the subject. It covers less material than MATA26, and at a less intensive level. It is intended for students who do not intend to take further mathematics or physical science courses.

A student who completes MATA55 and MATA40-A45 may take any of the second year mathematics courses. A student with MATA26 may take the sequel course MATB41-42 in second year, and its sequel in third year. He/she is however barred from certain advanced second and third year courses. A student should enrol in MATA22 only if he/she does not wish to take further mathematics courses.

Irrespective of course prerequisites, Grade 13 students are urged to take as many of the Grade 13 mathematics courses as possible.

Major Programme in Mathematics

Supervisor of Studies: T. Callahan

In this programme a total of eleven courses are required. During their first year, students should complete MATA40F, MATA45S, MATA55Y, CSCA58F AND CSCA68S.

In addition, during their twenty-course major programme, students must complete MATB50F and MATB55S, MATB40F, MATB25, MATB52F and MATB57S, MATC44F and MATC49S, MATC51F and MATC56S, MATC53Y, MATC60F and MATC65S. Students must also take at least one course chosen from the following: MATB45S, MATB70S, MATC54F, JMCC31F.

Complete programmes should be planned in consultation with a member of the Mathematics faculty.

The Mathematics faculty strongly recommends that students in this programme enrol in courses in other disciplines such as Physics, Economics, Computer Science, Chemistry, Astronomy, and the Biological Sciences where Mathematics is used and applied.

In any given year, some 'C' level courses may not be offered. Students should check with the Supervisor of Studies or the Registrar's Office.

Major Programme in Mathematics and Physics

Supervisor of Studies: P.J. O'Donnell (Physics), and T. Callahan (Mathematics)

Students should complete seventeen courses as specified below:

- (1) In the first year of full-time study (or equivalent):
PHYA01Y; MATA40F, MATA45S; MATA55Y
- (2) In the second year of full-time study (or equivalent):
PHYB01Y; PHYB04F; (PHYB05S); PHYB17S; PHYB18F; MATB50F; MATB51F; MATB55S; MATB56S
- (3) In the third year of full-time study (or equivalent):
PHYC01Y; PHYC03Y; PHYC06F; JPMC42S; MATC60F; MATC65S; APM351Y (St. George)
- (4) In the fourth year of full-time study (or equivalent):
PHY450Y; MATC53Y or (MATC50F; MATC55S) or MAT350Y; APM421F; and two other* 400-level (St. George) physics courses.

*JPAC10Y or (MAT465F; APM426S) can be substituted for one of these.

MATA22Y Techniques of Calculus / T. Callahan

Inequalities and absolute values. The real line. The Cartesian plane. Basic Trigonometry. Functions. Limits. Continuity. Derivatives. Extremum problems. Applications to physics and economics. Graph sketching. Rolle's theorem. The mean value theorem. Taylor series. L'Hospital's rule. Integrals as areas. Indefinite and definite integrals. Elementary transcendental functions. Applications of integration.

MATA22Y introduces the basic techniques of the calculus and their standard applications. The course structure is lectures and tutorials.

Exclusions: MATA26; MATA55

Prerequisite: One Grade 13 course in Mathematics

Session: Winter Day

MATA25S Thinking Mathematically / J. Mason

Why are street lights the height they are? Is it more economical to buy large potatoes or small ones? These and many other questions from day to day life can be answered rationally by thinking about simple mathematical models. We will work with pocket calculators and consider a collection of problems which will lead us to such topics as exact and approximate calculations, modular arithmetic, iteration and recursion, graphs and cobwebs and the role of diagrams and symbols. The purpose of this course is to show how mathematics applies in the real world. It will be a useful supplement for any mathematics course including MATA22Y.

Students must have a pocket calculator with sines, logs and memory. Readings will be assigned from printed notes supplied at cost (under \$2.50). This course is offered by Professor Mason of the Open University in England and will be based on techniques developed there. It will include a strong emphasis on student participation. The course structure is Lectures.

Note. This course may not be used towards the eleven mathematics courses required in the Mathematics major programme.

Prerequisite: One Grade 13 course in Mathematics or permission of instructor.

Session: Summer Evening

MATA26Y Calculus with Linear Algebra / J.S. Halperin, P. Keast and one other

Inequalities. Absolute value. Functions of a single variable. Limits and continuity. The derivative. Techniques of differentiation. Applications to related rates, extremum problems, and problems in Physics and Economics. Graph sketching, including asymptotic behaviour. Rolle's theorem. Mean value theorem. Taylor's series. L'Hospital's rule. Indefinite and definite integrals. The fundamental theorem. Elementary transcendental functions. Techniques of integration. Application of integration. Vector spaces. Linear equations. Matrices. Determinants.

MATA26Y introduces the basic techniques of the calculus, and stresses their use in the analysis and solution of problems. This requires a good understanding of the underlying ideas, which is achieved through the investigation of specific examples rather than general theory. Students will find this a demanding but rewarding course, which will equip them for most scientific applications. The course structure is lectures and tutorials.

Exclusion: MATA22; MATA55

Prerequisite: Grade 13 Calculus

Session: Winter Day, Winter Evening, Summer Evening

MATA40F Introduction to Linear Algebra / E. Mendelsohn, J. Wilker

The study of vector spaces. Norms. Dot products. Cross products. Subspaces. Linear independence. Bases. Dimension. Matrices. Systems of linear equations. Linear transformations. Matrix of a linear transformation. General applications.

This is a course intended for serious students who plan to continue with mathematics and/or science. The subject matter is abstract and demands a great deal of time and effort to master. However, if you are prepared to work hard, then this is a very rewarding course and well worth the effort. The course structure is lectures and tutorials.

Prerequisite: Grade 13 Functions and Relations or Grade 13 Calculus or Grade 13 Algebra.

Session: Winter Day

MATA45S Linear Algebra I / E. Mendelsohn

A generalization of the topics covered in MATA40 to abstract vector spaces. Eigenvalues. Eigenvectors. Change of basis. Diagonalization of a matrix.

This is a course intended for serious students who plan to continue with mathematics and/or science. The subject matter is abstract and demands a great deal of time and effort to master. However, if you are prepared to work hard, then this is a very rewarding course and well worth the effort. The course structure is lectures and tutorials.

Prerequisite: MATA40

Session: Winter Day

MATA55Y Calculus / P. Leah

Numbers. Induction. Inequalities. Coordinates. Functions. Limits. Continuity. Uniform continuity. Derivatives and applications. Transcendental functions and applications. Techniques of Integration. Mean value theorems. Taylor's formula. L'Hospital's rule. Sequences and series. Polar coordinates. Parametric representations and applications. Differential equations.

This course is designed for students who intend to pursue further studies in mathematics or sciences. There is a strong emphasis on rigour and proofs. The course will treat the concepts of the calculus, their logical relations, how to bring problems from other disciplines within this framework and how to solve them. The course structure is lectures, tutorials, assignments and tests. The method of evaluation is weekly homework assignments, three term tests (October, December and February) and a final examination.

Exclusion: MATA22; MATA26

Prerequisites: Grade 13 Functions and Relations; Grade 13 Calculus.

Session: Winter Day

MATB25Y Geometry / J. Wilker

Isometries in Euclidean plane and space. Similarities. Inversion in a circle. The inversive plane. Circle preserving transformations. Non-Euclidean geometry. Projective and affine geometry. Finite geometries. Free completions. Desargues's theorem and Pappus's theorem. Projectivities, homologies, elations. The fundamental theorem of projective geometry.

This course explores some facets of present-day geometric research. In addition, the interplay between geometry and algebra is emphasized. The course structure is three lectures per week.

Prerequisite: MATA45

Session: Winter Day

MATB40F Linear Algebra II / J. McCool

Dual spaces, linear functionals, the double dual; the transpose of a linear transformation. Polynomial algebras over a field; prime factorizations in $F(x)$, elementary divisors. The theory of a single linear transformation: Determinants. Cayley-Hamilton theorem, invariant subspaces, primary decomposition, rational canonical form, Jordan form. Introduction to bilinear forms and inner product spaces.

The course structure is three lectures per week.

Prerequisite: MATA45

Session: Winter Day

MATB41F Techniques of the Calculus of Several Variables I / J.S. Halperin

Equations of lines and planes. Geometric representation of functions of several variables. Partial derivatives, directional derivatives and the gradient. Maxima and minima including classification of critical points and the method of Lagrange multipliers. Curves, vector fields and line integrals. Divergence, curl and the Laplacian.

The course structure is lectures and tutorials.

Exclusion: MATB50

Prerequisites: MATA26 or MATA55

Session: Winter Day, Summer Evening

MATB42S Techniques of the Calculus of Several Variables II / J.S. Halperin

Double and triple integrals together with applications to geometry and physics. Various coordinate systems and change of variables in multiple integrals. Surface integrals. The theorems of Gauss and Stokes. Sequences and series of numbers and functions. Taylor series and Fourier series.

The course structure is lectures and tutorials.

Exclusions: MATB50, MATB55

Prerequisite: MATB41

Session: Winter Day, Summer Evening

MATB45S Linear Algebra III / J. McCool

Inner product spaces, bilinear forms, Sylvester's Law. Topics chosen from orthogonal and symplectic geometry, Witt's Theorem, convex sets, localization of eigenvalues, game theory, integer and $(0,1)$ matrices, matrix inequalities, tensor products, and exterior algebra.

The course structure is three lectures per week.

Prerequisite: MATB40

Session: Winter Day

JMPB50F Symbolic Logic

(see Joint Courses)

MATB50F Analysis / R.W. Sharpe

Partial Derivatives. Implicit differentiation. Extrema of functions with side conditions. Series of functions. Uniform convergence. Limit and derivative under the integral sign. Multiplication, differentiation and integration of series. Power series. The calculus of vector functions.

The course structure is three lectures per week.

Exclusion: MATB41

Prerequisite: MATA45; MATA55

Session: Winter Day

JMPB51S Symbolic Logic II

(see Joint Courses)

MATB52F Probability and Statistics I / M. Evans

An introduction to probability theory. The probability model. Presentations of probability. Marginal probability. Statistical independence. Conditional probability. Mean Value. Weak Law of Large Numbers and the Central Limit Theorem. Theory and applications.

The course structure will consist of lectures and tutorials.

Exclusions: PSYB07, ECOB11

Prerequisite: MATA26 or MATA55

Session: Winter Day

MATB55S Analysis II / R.W. Sharpe

The topology of the n -dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of n -forms. Exterior calculus. Line integrals, winding number, Green's theorem. Surface integrals and Stokes' theorem. (Mathematical rigour is emphasized.)

The course structure will consist of three lectures per week.

Exclusion: MATB41

Prerequisite: MATB50

Session: Winter Day

MATB57S Probability and Statistics II / M. Evans

An introduction to statistics. The statistical model. Large sample methods. Distribution. Free methods. The likelihood Function. Estimation. Testing hypotheses. Linear models. Design of Experiments. Theory and applications.

The course structure will consist of lectures and tutorials.

Prerequisite: MATB52

Session: Winter Day

MATB70S Introduction to Number Theory / J. Wilker

Some elementary properties of integers. Prime numbers. Congruences. Diophantine equations. Quadratic residues. Rational approximation.

MATB70S will be an exploratory course. The material to be studied will be chosen on its own merit, not for its future usefulness. Number theory is one of the oldest and most beautiful branches of pure mathematics and this course should provide an idea of why it has fascinated mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential. The course structure will consist of three lectures per week.

Prerequisite: MATA45

Session: Winter Day

JMCC31F Combinatorics

(See Joint Courses)

MATC32S Advanced Topics in Mathematics / I. Kupka

A survey of different trends in the mathematics of this century. The course content and the prerequisites change yearly. Manifolds. Critical point theory. Mathematical economy. Calculus in Banach spaces.

Prerequisites: MATA45S and MATB42S or MATB55S

Session: Winter Day

This course not to be offered 1980-1981.

JPMC42S Advanced Classical Mechanics

(see Joint Courses)

MATC44F Algebraic Structures I / E.W. Ellers

An introduction to group theory and algebra. Groups, their homomorphisms and structure. Representation of groups by permutation groups. Isomorphism theorems and some of their implications. Sylow theorems. A similar study of rings and fields.

The course structure consists of three lectures per week.

Prerequisite: MATA45 and one other B-level Mathematics course

Session: Winter Day

MATC49S Algebraic Structures II / E.W. Ellers

The study of rings. Euclidean domains and polynomial rings. The fundamental structure of fields. A survey of extension fields, finite fields and algebraic closures. The fundamental theorem of Galois Theory. The problem of construction of a regular n -gon, and the trisection of an angle. The structure of finite division rings and of division rings over the real numbers.

The course structure consists of three lectures per week.

Prerequisite: MATC44

Session: Winter Day

JMCC51S Numeric Methods

(see Joint Courses)

MATC51F Differential Equations I / I. Kupka

Equations with separable variables. Homogeneous equations. First order linear equations. Exact differentials and integrating factors. Equation of Bernoulli. Clairaut equation. Reducible second order equations. First order equations of higher degree in algebraic form. Envelopes. Orthogonal trajectories. The laws of Kepler and Newton. Second order linear equations with constant coefficients and Euler's equations. General second order linear equations. Wronskian. Variation of parameters. Boundary and initial value problems. Green's function. Adjoint operators. Power series solutions of second order equations.

Prerequisites: MATB42S/MATB50F (or MATB50F may be taken concurrently with MATC51F)

Session: Winter Day

MATC52F Experimental Design / M. Evans

The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted randomization schemes. Factorial designs.

The course structure consists of three lectures per week.

Prerequisites: MATB57; MATA40

Session: Winter Day

MATC54F Differential Geometry I / I. Kupka

Summary of differentials, inverse and implicit function theorems and their geometrical interpretation. Parametric curves and surfaces in R^3 , singular points, tangent lines, tangent planes. Global definition of curves and surfaces in R^3 . Manifolds. Tangent and normal structures. Regular and critical values of smooth maps. Pre-images. Transversality. Images of smooth maps. Vectorfields. Integral curves. Exterior differential of one and two-forms. Theorems of Gauss and Green.

Prerequisites: MATA45S and MATB42S or MATB55S

Corequisite: MATC51F

Session: Winter Day

MATC56S Differential Equations II / I. Kupka

Metric Spaces. Banach's fixed point theorem. Lipschitz condition. Existence and uniqueness of solutions. Global qualitative analysis of solutions. Higher order linear equations. Formula of Abel-Jacobi-Liouville. First order linear systems. Fundamental matrix. Jordan normal form. Boundary and initial value problems. Green's matrix. Introduction to calculus of variations or to dynamical systems.

Prerequisites: MATB51/MATC51F

Session: Winter Day

MATC60F Complex Analysis I / P. Leah

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.

The course structure consists of three lectures per week.

Prerequisites: MATB55 or MATB42S

Session: Winter Day

MATC65S Complex Analysis II / P. Leah

Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.

The course structure consists of three lectures per week.

Prerequisite: MATC60

Session: Winter Day

MATC67S Regression Analysis / M. Evans

The statistical analysis of linear models. Transformations. The analysis of covariance. Bioassay. Computational procedures.

Prerequisite: MATB57S

Session: Winter Day

COURSES NOT OFFERED in 1979-80**MATC53Y Real Analysis**

Prerequisites: MATB40, MATB55

COURSES NOT OFFERED in 1980-81**MATC32S Advanced Topics in Mathematics****JMCC31F Combinatorics**

MEDIEVAL CIVILIZATION

Supervisor of Studies: Michael Gervers

The courses in this programme encompass the breadth of European and Mediterranean culture running from the late Roman Period and culminating, in the West, in the Renaissance of the Fifteenth Century. Students wishing to select it as a major will be expected to complete ten full courses from the four following areas: 1) History; 2) Language and Literature; 3) Philosophy and Religion; and 4) The Arts (Fine Art, Archaeology, Drama and Music). They are to select three courses each from three of the four areas, and one from the remaining area. HISB06Y is required of all participants. Two of the ten courses 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. Students should consult the supervisor of studies about their individual programmes and course selection.

History

ANTB41S	Pre-Industrial Technology
HISB07Y	Russia from the Thirteenth Century to the Present
HISB06Y	Europe in the Middle Ages
HISB27Y	Europe, 400-1100
HISB61Y	The Beginnings of France: Constantine to Charlemagne
HISC20F/S	Anglo-Saxon England
HISC62Y	The Crusades
GRHB03Y	Roman History from the Gracchi to Nero
GERB33S	History of German

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
FREB42F	General History of the French Language
FREC22Y	Introduction to Medieval French Language and Literature
GERB33S	History of German
GERB53F	German Literature before 1775
GERC23F	Introduction to Middle High German
HUMC01F/S	Lyric Poetry of the Middle Ages in the Mediterranean Area
ITAB31Y	Dante and Medieval Culture
ITAB32F	Petrarch and Boccaccio
LATA01Y	Introductory Latin
LATB30F/	
LATB33F	
LATB35S/	
LATB39S	
LATB40Y	Supervised Reading
SPAB12S	History of the Spanish Language
SPAB35F/S	Medieval Literature: Prose
SPAB36F	Medieval Poetry

Philosophy and Religion

CLAB21Y	Greek and Roman Religion
CLAB23F/S	Christianity in the Greco-Roman World
HUMB20Y	Primitive Christian Literature and Myth
HUMB33Y	World Visions from the Late Middle Ages to the Renaissance
HUMC20Y	Jesus in Early Christianity and Judaism
HUMC22S	John: Gospel and Letters
PHLB40F	Plato and His Predecessors I
PHLB41S	Plato and His Predecessors II
PHLB42F	Aristotle and Later Greek Philosophy I
PHLB43S	Aristotle and Later Greek Philosophy II
PHLB44F	Philosophers of the Middle Ages I

PHLB45S	Philosophers of the Middle Ages II
PHLB61F	Philosophy of Religion
PHLC88S	Seminar in Philosophy: St. Augustine's Philosophic Dialogues

Arts

ANTB27Y	Archaeological Methods and Materials
DRAB03Y	The History of Theatre I
DRAB12B	Medieval and Early Tudor Drama. The Texts and their Production
FARB01F/S	Romanesque Art
FARB24Y	Medieval Art from IV to XIV Century
FARB25F/S	High Gothic Architecture
FARB26Y	The Arts in Northern Europe ca. 1400-1500
FARB29F/S	Early Christian and Byzantine Art
FARB35F/S	Gothic Painting
FARB41S	Monuments and Topography of Republican Rome 31 B.C. - 337 A.D.
MUSB04F/S	Music of the Renaissance

MODERN LANGUAGES AND LITERATURE

Major programmes are possible in a combination of any two of English, French, German, Italian, Russian, Spanish. Fourteen courses are required, seven in each of the two areas.

These programmes may render a student eligible to pursue graduate studies, and a combination which includes English or French would allow students to apply to the Faculty of Education for Type A certification.

In each case of a combined major the students must have approval of the appropriate Supervisors of Studies.

Requirements in each subject are as follows:

English

Supervisor of Studies: A. Thomas

Seven full course equivalents, including one of ENGB01Y, B02Y, C01Y, C03Y. At least one course should be at the C-level.

French

Supervisor of Studies: J. Bancroft

Seven full course equivalents, including FREA01 and B01, one full course equivalent in literature dealing with a period prior to 1800 and one with a period after 1800. No more than two full course equivalents at the A level and one from the series of Supervised Reading courses may be counted. At least two courses should be at the C-level.

German

Supervisor of Studies: H. Ohlendorf

Seven full course equivalents as follows: GERB20Y, B30Y, C10Y; B60S, B63F, B66F, B70S, B73F/S; C13Y, C20Y.

Italian

Supervisor of Studies: A. Franceschetti

Seven full course equivalents, of which at least two full course equivalents must be in Italian language at a level appropriate to the student's background and experience and at least four full course equivalents must be in Italian literature, including B21Y and B31Y.

Russian

Supervisor of Studies: S. Whalen

Seven full course equivalents as follows: RUSA01Y, A10Y, B02Y, B11Y, B21Y, B23Y, C01Y.

Spanish

Supervisor of Studies: J.I. Chicoy-Dabán

Seven full course equivalents of which four full course equivalents will be in Spanish language (SPAA01Y/A*, B01Y/B, B04F, B12S, C01Y) and two and one-half full course equivalents from SPAB03S, HUMB15Y or SPAB38Y, B18Y or SPAB19Y, and one-half course from each of the following areas:

- a) Medieval Literature
- b) Golden Age Literature
- c) Modern Literature (Peninsular and/or Latin American)

*SPAA01Y does not count as one of the seven full course equivalents required for a major programme.

Latin and a Modern Language

Supervisor of Studies: I.R. MacDonald

A combination of one of the seven-course options listed above (other than English - for English and Latin see English and Classics) with four full course equivalents in Latin as follows: LATA10F, LATB01S, and three other full course equivalents from A01Y, B30-34F, B35-39S, C01F, C02S.

Linguistics and a Modern Language

Supervisor of Studies: D. Woods

A combination of one of the seven-course options listed above and five full course equivalents in Linguistics to include LINA01Y, B11Y and B02S, B04S. LINA04F/S and LINB08S may not be offered towards a major programme.

MUSIC

Discipline Representative: J. Mayo

Music is considered one of the liberal arts. The approach to musical style is historical and humanistic, and these courses differ in some respects from those designed for composers and performers. Performing skills are not required for this kind of study. It is expected that courses will vary from year to year.

MUSA01Y Introduction to Music / J. Mayo

A study of the basic materials, principles of design, and cultural significance of representative works of Western and non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

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, style characteristics, and in relationship to trends in art and society. The evolutionary aspects of the various period styles is emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week. Evaluation will be on the basis of tests and term assignments (2/3) and a final examination (1/3).

Session: Winter Day

MUSB06F Music of the Romantic Period / J. Mayo

A study of the music of the 19th century.

A detailed study of Romantic musical styles as represented by selected works of the major 19th century composers. Included are compositions by Beethoven, Schubert, Mendelssohn, Berlioz, Verdi, Wagner, Brahms, Chopin, Liszt and Wolf. The course will include consideration of the relationship between music and the other arts and an introduction to the sociology of musical romanticism. There will be two lecture hours per week. Evaluation will be on the basis of a term paper (1/3), tests and class presentation (1/3) and one exam (1/3).

Prerequisite: MUSA01Y or MUSB08Y

Session: Winter Day

MUSB07S The Symphony / J. Mayo

A study of the music written in the symphony form from the Classic period until the present day. The changing concept of the symphony investigated through close study of representative examples of the genre. There will be two lecture hours per week. Evaluation will be on the basis of a term paper (1/3), tests and class presentation (1/3) and one exam (1/3).

Prerequisite: MUSA01Y or MUSB08Y

Session: Winter Day

MUSB09H Supervised Performance I / C. Walter, J. Mayo

Performance of either vocal or instrumental music, supervised by a member of the faculty. Examination by audition and written test. Previous experience necessary for instrumentalists.

Performance of a variety of music literature and possible public performance for the College. Students will learn about the variety of literature from actual performance. Previous experience is necessary for instrumentalists. No experience necessary for vocal music. A wide variety of music will be performed. Two hours group instruction per week. Formation of groups and arrangement of times to take place during first week of fall term. There will be an audition and a written test. One half credit per year, limited to one full credit per student.

Corequisite: MUSA01

Session: Winter Day

MUSB10H Supervised Performance II / C. Walter, J. Mayo

A continuation of MUSB09H.

For further information see Music B09. There will be an audition and a written test.

Prerequisite: MUSB09

Session: Winter Day

MUSB14S Jazz / J. Mayo

A history of jazz from its African and European roots to present day experiments.

The history of jazz styles approached through an examination of the work of representative performers. Social questions and the relationship between jazz and 'classical' music will be discussed. Class participation may include performance by exceptionally well qualified students. There will be two hours per week lecture and class discussion. Evaluation will be on the basis of one exam (1/3), class participation and short assignments (1/3) and a term paper (1/3).

Session: Winter Day

MUSB15F Music in Elizabethan England / J. Mayo

A study of music from England's *Golden Age*, with consideration of the cultural and historical context.

1. The style of Renaissance music on the continent. 2. The Reformation: music for the Catholic and Anglican rites. 3. Instrumental music. 4. The madrigal and lute song. 5. Music in Elizabethan drama. 6. Problems of modern performance.

There will be two hours per week of lecture and class discussion. Evaluation will be on the basis of one exam (1/3), class participation and listening and other assignments (1/3), and a term paper (1/3).

Prerequisites: MUSA01Y or permission of instructor.

Session: Winter Day

COURSES NOT OFFERED in 1979-80

MUSB01S Music of the Twentieth Century

MUSB02F Haydn, Mozart and Beethoven

MUSB04F Music of the Renaissance

MUSB05S Music of the Baroque Era

MUSB08Y Musical Perception

MUSB11F Music for the Theatre

MUSB12S Stravinsky

MUSB13S Bach

NATURAL SCIENCE

Quaternary Studies Programme

Several courses in various disciplines relate directly or indirectly to the Quaternary - that period of time encompassing the last three million years, when the formative processes underlying modern culture, landscape patterns and biogeography developed and interacted. Students with an interest in this multidisciplinary area should consult the Supervisor of Studies for further details.

NSCA01Y Introduction to Natural Science: Physical Science

A primarily non-mathematical treatment of the basic and applied physical sciences, designed for students whose major interests lie outside of science. Basic questions discussed include: the history of physical science; scientific method; pseudo-sciences; dimensional analysis; principles of mechanics; theory of gravitation; oscillating systems; quantum mechanics; symmetry and physical laws; relativity theory; the statistical character of natural phenomena. Applications include: studies of speed and size; magnetic and electric phenomena; the physics of music and the physics of colour; nuclear and other energy sources and some of the philosophic and social implications of modern science. Considerable use is made of films and demonstrations to supplement the lectures and much of the tutorial time is devoted to discussion. Reading and essay writing are an important part of the course.

An emphasis on the historical development of concepts in the physical sciences, from earliest times to the present. It will be necessary for students to work problems involving simple algebra and arithmetic, but no calculus. The bibliography is Gerald Holton, *Introduction to Concepts and Theories in Physical Science* (Addison-Wesley, 1973). The method of evaluation is problems, term tests, essays, final examination and extra reading.

Exclusion: Not open to students who have passed PHYA01 or PHYA02

Other Recommended Courses: MATA22, PHLB70

Session: Winter Day

NSCA02Y Introduction to Natural Science: The Biological Sciences / G.R. Williams

This course is designed for students with no formal background in Biology, and in particular for those whose main interests are not in the Natural Sciences. It aims to introduce the student to the central ideas of Biology and to acquaint the student with the ways in which those concepts are interrelated. The functioning of cells and organisms will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies in which these subdivisions of biology have become involved. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods.

Exclusion: Not open to students who are taking or have taken BIOA03

Session: Winter Day

NSCA03Y Ice Ages and Human Ecology / B. Greenwood, J. Ritchie, H.B. Schroeder, J. Westgate

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. The teaching method consists of one two-hour lecture per week, and occasional fieldtrips. Evaluation is based on examinations and a short research paper.

Session: Winter Day

COURSES NOT OFFERED in 1979-80

NSCB02Y Quaternary Environments and Man

Prerequisite: One of ANTA01, BIOA03, (GGRA07), GGRA04, GGRA05, GLGA01, NSCA02 (it is strongly recommended that students have a background in one other of the areas listed.)

PHILOSOPHY

Discipline Representative: W.C. Graham

Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic 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 1978-79 will be available in 1979-80 while PHLA01, PHLB01, PHLB20, JMPB50, PHLB60 and PHLB61 are offered every year. It should be noted that in almost all areas Fall/Spring sequences are offered which when combined provide the equivalent of a full year course at the B-level. These sequences are usually scheduled in the same time slot. The B-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, H505.

Major Programme in Philosophy

Supervisor of Studies: W.C. Graham

Students must complete PHLA01Y, PHLB01F, PHLB20F, JMPB50F, PHLB60F, four half courses from PHLB40F to PHLB49S, one C-level half course in Philosophy; and seven other half-courses in Philosophy.

Physics and Philosophy Programme - See Physics

Philosophy and Greek

Students should complete *ten* full-course equivalents made up in the following manner:

Philosophy

- | | |
|-------------|---|
| (1) PHLA01Y | Fundamental Questions of Philosophy |
| (2) PHLB40F | Plato and his Predecessors I |
| (3) PHLB41S | Plato and his Predecessors II |
| (4) PHLB42F | Aristotle and Later Greek Philosophy I |
| (5) PHLB43S | Aristotle and Later Greek Philosophy II |
| (6) | Four further half-courses |

Greek:

- | | |
|-------------|--|
| (1) GRKA01Y | Introductory Greek |
| (2) GRKB01F | Plato <i>Apology</i> |
| (3) GRKB11S | Homer <i>Odyssey</i> |
| or | |
| GRKB12S | Herodotus |
| (4) | Four half-courses in Supervised Reading (GRKB30-39) |
| (5) | One full course (or equivalent) from the following: |
| CLAB01Y | Greek and Roman Epic |
| CLAB02Y | Greek and Roman Tragedy |
| CLAB21Y | Greek and Roman Religion |
| CLAB23F/S | Christianity in the Greco-Roman World |
| GRHB01Y | History of Greece from 2000 B.C. to the Death of Alexander |
| GRHB02Y | Greek and Roman History from the Death of Alexander to the Gracchi |

PHLA01Y: L01 Fundamental Questions of Philosophy / J. Hartley

A discussion of some of the fundamental questions of Philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

This course will approach some of the above problems by concentrating on the question: what does it mean to be a human being or person? Although the question is theoretical, the answer to it has important practical (ethical) consequences. We shall explore this question with the help both of philosophers within the Western tradition (e.g. Aristotle, Thomas Aquinas, Descartes, Hume, J.-P. Sartre) and of psychologists (e.g. Freud, Skinner, Frankl). Evaluation will be based on book reports, in-class tests, and one paper. The texts will be Mariann Kinget, *On Being Human*, Mortimer Adler, *The Difference of Man and the Difference It makes*, Jerome Shaffer, *The Philosophy of Mind*.

Session: Winter Day

PHLA01Y: L02 Fundamental Questions of Philosophy / R.P. Thompson

A discussion of some of the fundamental questions of Philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

A discussion of: the existence of God, the basics of morality, the nature of space and time, causality, and determinism.

Session: Winter Day

PHLA01Y: L03 Fundamental Questions of Philosophy / A. Gombay, W. Graham

A discussion of some of the fundamental questions of Philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

For specific content and texts of this lecture section, please see the instructors; A. Gombay (Fall Term), W. Graham (Spring Term).

Session: Winter Day

PHLA01Y: L30 Fundamental Questions of Philosophy / J.H. Sobel

A discussion of some of the fundamental questions of Philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

An introduction to philosophy consisting of consideration of topics drawn from the major divisions of the subject: metaphysics, theory of knowledge, philosophy of religion, ethics and logic.

The aim of the course is to convey an idea of philosophy, its nature and variety, by doing some and by seeing some done by great philosophers.

Reading material for the course is about evenly divided between works of great philosophers of the past, including Anselm, Aquinas, Descartes, Berkeley, Hume and Leibniz, and works of recent and contemporary philosophers. Evaluation to be announced later.

Session: Winter Evening

PHLB01F Morality and Values / J.H. Sobel

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 as found in four pre-eminent texts: *The Republic* by Plato, *Nicomachean Ethics* by Aristotle, *An Enquiry Concerning the Principles of Morals* by Hume, and Kant's *Foundations of the Metaphysics of Morals*. There will be a test during the term and a final examination.

Session: Winter Day

PHLB03F Philosophy and Art / W. Graham

A study of the nature and purposes of art, considering such questions as the interpretation and evaluation of works of art, the uniqueness of artistic experiences, artistic creativity, and the importance of art.

This course will investigate the relation of art to human life. A variety of art forms including music, painting, sculpture, films, poetry, photography will be investigated and discussed. Students should bring their own interests to bear on this course. Term work may consist of written work or forms of expression, demonstration, display etc., other than the written word. There will be one term test or equivalent exercise. Student participation is essential. The text will be *Aesthetics: A Critical Anthology* by George Dickie and Richard Sclafani.

Session: Winter Evening

PHLB05F Social Issues / R.P. Thompson

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 toward the poor.

An examination of the moral issues involved in consideration of: human sexual relations, abortion, world hunger, discrimination, and capital punishment.

Session: Winter Day

PHLB10S Society, the State and the Citizen / W. Graham

A study of the philosophical problems of the state and society such as the individual in society, the coercive state, the stateless society.

A consideration of the thought of some of the following philosophers: Hobbes, Locke, Rousseau, Hegel, Marx, Bakunin and others. Theories of Liberalism, Socialism, and Fascism. Special topics for discussion: Terrorism in our time. Evaluation will be based on one paper and two short reading tests. Texts: Alan Gewirth, *Political Philosophy*, Bommi Baumann, *How It all Began*.

Session: Winter Day

PHLB11S Philosophy of Law / A. Gombay

What is the relation between law and morality and between law and custom? What is justice? How are concepts such as responsibility, intention, negligence treated in the law? What is legal reasoning like?

The course has two parts. The first examines the notion of *legal responsibility*, and attendant concepts (intention, foresight, negligence, recklessness, insanity): how are they treated in the law? The second part examines the notion of a *legal right*: how are rights related to obligations? do rights exist only in the context of the legal system? are some rights more fundamental than others? All these questions will be discussed with reference to actual legal cases. Philosophical readings: Dworkin, R., *Taking Rights Seriously*, Hart, H.L.A., *Punishment and Responsibility*, Kenny, A., *Responsibility and Will*.

Session: Winter Evening

PHLB16F Philosophy of History / R.P. Thompson

The philosophy of history studies general theories about the nature of the human past and basis problems in the methods of historical research and writing. It asks such questions as: Has history any meaning? Can there be general theories of history? Is history deterministic? Must the historian make value judgments?

An examination of: the truth and reference of historical statements, traditional historiography, historical explanation, historical interpretation and history and theory, and confirmation in history.

Session: Summer Evening

PHLB20F Belief, Knowledge and Truth / J. Hartley

An examination of, among other things: certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.

Epistemology as a distinctive branch of philosophy emerged at the beginning of Modern Philosophy and represents, at least in its beginnings, philosophy's critical self-scrutiny. Philosophers were puzzled by the conflicting and sometimes contradictory knowledge-claims made by different philosophies and began to wonder whether and how these claims could be justified. So Epistemology asks about the existence, nature, extent and limits of knowledge. It seeks to discover the bounds of sense, of meaningful discourse, of truth. For example, can we know and speak meaningfully about the world in its totality (is it finite or infinite in extent or duration), about freedom of the will, the immortality of the soul, about the existence and nature of God? Evaluation will be based on one major essay (2/3), two tests (in class)(1/3).

Session: Winter Day

PHLB30F Existentialism / J. Hartley

A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre.

The course has four main objectives: (1) to familiarize students with the work of some of the leading "existentialist" thinkers, including Kierkegaard, Nietzsche, Heidegger, Sartre and Marcel; (2) to integrate existentialist thought by focussing upon the development of some common themes; (3) to understand such thinking in its proper context, as a critical response to aspect of the philosophical tradition; (4) to emphasize its particular relevance to the quest for authentic self identity and a sense of existence. Included among the readings are: Nietzsche, *The Gay Science*, Sartre, *Existentialism is a Humanism*, Heidegger, *Being and Time* (selections), and others.

Prerequisite: One B-level half course in Philosophy

Session: Winter Day

PHLB42F Aristotle I / W. Graham

A study of central themes in the philosophy of Aristotle I.

In the fall term, a discussion of Aristotle's thought on psychology, nature, thought and reasoning, and being; the development of Aristotle's conception of philosophy in relation to Plato and the Pre-Socratics. Evaluation will be based on one paper, some discussion or seminar, a term reading test. Text: *The Basic Works of Aristotle*, Richard McKeon, editor; *The Presocratics*, Philip Wheelwright, editor.

Session: Winter Day

PHLB43S Aristotle II / W. Graham

In the spring term, a discussion of Aristotle's Ethics and Politics; Aristotle as the founder of a practical philosophy in relation to Plato; the contemporary significance of Aristotle's Ethics. The work will consist of a term paper, some discussion or seminar, a term reading test. Text: *The Basic Works of Aristotle*, Richard McKeon, editor.

Session: Winter Day

PHLB44F Philosophers of the Middle Ages I / Information will be available at a later date in Room H-525A.

A study of central themes in the philosophy of Christian, Islamic and Jewish thinkers such as Augustine, Boethius, Avicenna, Alfarabi, Maimonides, Anselm, Aquinas, Ockham.

Session: Winter Day

PHLB45S Philosophers of the Middle Ages II / Information will be available at a later date in Room H-525A

A continuation of PHLB44.

Session: Winter Day

PHLB46F Philosophy of the Early Modern Age I / A. Gombay

Revolutions in Science and Philosophy involved men in a radical rethinking of the powers of reason, the limits of experience, and the nature of man and reality.

In the XVIIth century a new conception of knowledge was born, ours; the course will trace the birth and development of this conception in the works of Galileo, Descartes, Leibniz, Locke and Newton. The readings will be, Galileo, *Opinions and Discoveries*, (ed. S. Drake), Descartes, *Philosophical Writings* (ed. Anscombe and Geach), Leibniz, *Philosophical Works* (ed. Parkinson), Newton, *Natural Philosophy* (ed. Thayer).

Exclusion: (PHLB71)

Session: Winter Day

PHLB47S Philosophy in the Early Modern Age II / J.H. Sobel

Sections of about equal length are planned for Berkeley, Leibniz, and Hume with some, but less, time devoted to several chapters of Locke's *Essay*. Prominent amongst topics taken will be: theories of perception, God (arguments for and against, theoretical functions of), the necessary and the contingent, induction and causation, and personal identity. Short contemporary essays, either on our philosophers or on their problems, will be assigned or recommended. Principal materials will of course be works of the philosophers named. Grades will be based on examinations and essays.

Session: Winter Day

JMPB50F Symbolic Logic

(See listing under section for Joint Courses)

JMPB51S Symbolic Logic II

(See listing under section for Joint Courses)

PHLB61S Philosophy of Religion / P. Gooch

A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism.

The "religion" part of the course is the Judaeo-Christian tradition; the topics are philosophical problems arising in and concerning this tradition. The problem of evil and suffering is the unifying theme: it raises questions about the relation between God and morality; about the omnipotence of God and the concept of miracles; about life after death; and about the possibility of the very existence of the God of religious belief. Attention will be paid to these issues in Christian experience and in Jewish experience, especially after the Holocaust. A full bibliography is available in room H527, but a central text is Alvin Plantinga, *God, Freedom and Evil* Harper Torchbacks, 1974).

Session: Winter Day, Summer Evening

PHLB70F Philosophy of Science / R.P. Thompson

A study of philosophical questions raised by the Natural Sciences. What is scientific explanation? In what sense does a Science tell us what the world is really like? What is causality and does it play a significant role in Science? How are theories justified?

An examination of the logical structure of explanation, law and theory in the natural sciences, and an examination of the role of concepts in one's understanding of the world.

Prerequisite: One course or half-course in Philosophy or in the Division of Science.

Session: Winter Day

PHLB81S Theories of Mind / J. Hartley

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.

The meaning of the word 'mind' underwent an evolution as it wended its way from medieval philosophy through Descartes, the British Empiricists and beyond. Hence we shall say something about the interesting philosophical developments in the conception of mind that took place from one school of psychology to the next, and from Introspectionism to the Physiological Psychology of Pavlov to Behaviourism to Gestalt Theory. The text used will be by Jerome Shaffer, *The Philosophy of Mind*.

Prerequisite: One B-level course or half-course in Philosophy or Psychology

Session: Winter Day

PHLB87S Contemporary Philosophic Issues: Biomedical Ethics / R.P. Thompson

An examination of the moral issues and value beliefs involved in consideration of: the definition and determination of death, experimentation on human subjects, genetic intervention and reproductive technologies and the concepts of health and disease. Students taking this course must have previously taken either PHLB05F or PHLB01F.

Prerequisite: One course or half-course in Philosophy

Session: Winter Day

PHLB88S Contemporary Philosophic Issues: Freud / J. Hartley

An analysis of the 'metapsychology' of Freud - his theory of sexuality, repression, unconscious, id, ego, superego, principle of energy discharge (pleasure principle).

Freud may be of interest to philosophers from a number of directions. He may be approached from the point of view of the philosophy of man, ethics, philosophy of religion and art, or hermeneutics. This course will give special attention to the early writings of Freud which include theories that remained basic to his later theory in spite of many important modifications. We shall work our way to his first major work on social and religious phenomena - *Totem and Taboo*. The texts will be Freud, *Introductory Lectures to Psychoanalysis*, Freud, *New Introductory Lectures to Psychoanalysis*. Evaluation will consist of two in-class tests and one major essay.

Session: Winter Day

PHLC87S Seminar in Philosophy: Philosophical Issues in Biology / R.P. Thompson

Discussions of reductionism, models of explanation, types of laws and the structure of theory in Biology.

A seminar course dealing with the logical structure of explanation in evolutionary theory, teleology in Biology, and the logical structure of the synthetic theory of evolution.

Prerequisites: PHLB70 or PHLB14; permission of instructor

Session: Winter Day

PHLC95F/S

PHLC96F/S

PHLC97F/S

PHLC98F/S

PHLC99Y Independent Studies / Staff

Prerequisites: Two B-level half-courses in Philosophy; permission of instructor

Session: Winter Day

PHILOSOPHY COURSES NOT OFFERED in 1979-80

PHLB02F/S Contemporary Ethical Theories

Prerequisite: One B-level half course in Philosophy

PHLB04F/S Philosophy in Literature

Exclusion: (PHLB26); (PHLB60)

PHLB12F/S Marx and Marxism

Prerequisites: One course or half-course in Philosophy, Sociology, Political Science or Economics. PHLB10 is recommended but not required.

PHLB14F/S Philosophy of Social Science

Exclusion: (PHLB62)

Prerequisite: One course in Philosophy or in the Division of Social Sciences.

PHLB15F/S Philosophy of Education

PHLB17F/S Anarchism

Exclusion: (PHLB50)

PHLB40F Plato and his Predecessors I

Exclusion: (PHLB11); (PHLB65)

PHLB41S Plato and his Predecessors II

Prerequisite: (PHLB40)

PHLB48F Philosophy in the Later Modern Age I

PHLB49S Philosophy in the Later Modern Age II

Exclusion: (PHLB74); (PHLC53)

PHLB60F/S Existence and Reality

PHLB80F/S Philosophy of Language

Prerequisite: One B-level course or half-course in Philosophy or Linguistics.

PHLC88S/89S Seminar in Philosophy

PHYSICS

Discipline Representative: M.B. Walker

Physics is the study of inanimate matter in action, and of the basic laws which describe how the parts of matter move, and how they influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of Physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may

be understood in terms of the interactions between the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of X-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 specialize in Physics are advised to select their courses in accordance with the requirements of either the Major Programme in Physics or that in Mathematics and Physics.

Less intensive programmes are available for those whose major interests do not lie in Physics. Specifically, the pair of courses PHYA02 and PHYB06 cover many topics in Physics and the principles of their application to a number of areas in science. The laboratory course PHYB08H offers a wide spectrum of experiments for students of PHYB01 or PHYB06. Additional more specialized B-level courses are also open to students who have completed A-level Physics and Calculus courses.

The listed pre- and corequisites imply others not explicitly listed: details are available from the Supervisor of Studies and the Registrar's Office.

Students interested in Physics should also refer to:

NSCA01Y Introduction to Natural Science: Physical Science

JPAC10Y Relativity and Cosmology

JPMC42S Advanced Classical Mechanics.

Major Programme in Physics

Supervisor of Studies: A.E. Jacobs

Students should complete a minimum of fourteen courses in physics and mathematics, as specified below. An optional mathematics programme more suitable for students with interest in mathematics and physics or theoretical physics is specified in parentheses: such students might also consider the Mathematics and Physics major programme. It is essential that students choose the appropriate set of mathematics courses from the beginning, since transfers between the sets are severely restricted. It is recommended that all students take MATA40F.

- (1) In the first year of full-time study (or equivalent):
PHYA01Y Classical Mechanics
MATA26Y Calculus with Linear Algebra
or
(MATA40F, MATA45S and MATA55Y)
- (2) In the second year of full-time study (or equivalent):
PHYB01Y Electricity and Magnetism
PHYB04F Waves
PHYB08H Intermediate Physics Laboratory
PHYB09S Thermodynamics
(or CHMB03Y)
PHYB17S Introduction to Quantum Physics
PHYB18F Special Relativity
MATB41F Techniques of the Calculus of Several Variables I
MATB42S Techniques of the Calculus of Several Variables II
(or MATB50F, MATB55S)
- (3) In the third year of full-time study (or equivalent):
PHYC01Y Quantum Physics
PHYC03Y Electromagnetic Fields and Waves
PHYC05H Advanced Physics Laboratory
PHYC06F Statistical Physics
JPMC42S Advanced Classical Mechanics
MATC51F Differential Equations I
MATC60F Complex Analysis I

- (4) In the fourth year of full-time study (or equivalent):
JPAC10Y Relativity and Cosmology
plus
two 400-series (St. George) physics courses
or
three 400-series physics courses.

Major Programme in Physics with Philosophy

Supervisor of Studies: J.M. Perz (Physics) and R.P. Thompson (Philosophy)

Students should complete the following thirteen and one-half courses. The order in which some of the advanced philosophy courses are taken may be altered, depending on which courses are available in a given year. Students wishing to receive a B.Sc. degree must take an additional half course at B- or C-level in a science subject as defined in the recommendations for the twenty-course B.Sc. degree.

- (1) In the first year of full-time study (or equivalent):
PHYA01Y Classical Mechanics
PHLA01Y Fundamental Questions of Philosophy
MATA26Y Calculus with Linear Algebra
- (2) In the second year of full-time study (or equivalent):
PHYB01Y Electricity and Magnetism
PHYB04F Waves
PHYB17S Introduction to Quantum Physics
PHYB18F Special Relativity
JMPB50F Symbolic Logic
JMPB51S Symbolic Logic II
or
PHLB70F/S Philosophy of Science
MATB41F Techniques of the Calculus of Several Variables I
MATB42S Techniques of the Calculus of Several Variables II
- (3) In the third year of full-time study (or equivalent):
PHYC01Y Quantum Physics
PHYC06F Statistical Physics
JPMC42S Advanced Classical Mechanics
PHLB70F/S Philosophy of Science
or
JMPB51S Symbolic Logic II
PHLB87F/S* Contemporary Philosophic Issues
or
PHL455H (St. George) Advanced Topics in Philosophy of Natural Science
MATC51F Differential Equations I
MATC60F Complex Analysis I
*In years when PHLB87 deals with advanced philosophy of science
- (4) In the fourth year of full-time study (or equivalent):
PHY450Y (St. George) Quantum Theory
two of
PHLB20F/S Belief, Knowledge and Truth
PHLB46F/S Philosophy in the Early Modern Age I
PHLB47F/S Philosophy in the Early Modern Age II
PHLB60F/S Existence and Reality
and PHL options
- (5) NSCA01Y Introduction to Natural Science: Physical Science
and
MATA40F Introduction to Linear Algebra
are recommended.

Mathematics and Physics Programme

See Mathematics

Chemical Physics Programme

See Chemistry

PHYA01Y Classical Mechanics / A.E. Jacobs

Motions of single particles and collections of particles from the point of view of Newtonian physics. Equilibrium of rigid bodies, kinetic theory of gases, mechanics of fluids, introduction to thermodynamics. A laboratory emphasizing most of these physical phenomena is part of the course.

Problem solving is a very important part of the course. A set of solutions to assigned problems must be handed in almost every week. Experience with experimental work is gained in the accompanying laboratory. The course structure is two lecture hours and one tutorial hour per week and one laboratory session every second week.

Exclusion: PHYA02

Prerequisites: Grade 13 Physics or NSCA01, Grade 13 Calculus

Corequisites: MATA26 or MATA55

Session: Winter Day

PHYA02Y Principles of Classical Physics / J.D. King

This course with its associated laboratory offers a survey of the principles of physics. It is intended primarily for those who desire a single course in physics, but does provide a foundation for those wishing to take a survey course in contemporary physics such as PHYB06Y. However, it is not designed for those who expect to continue with major studies in physics. Topics include: kinematics and dynamics of single particle motion, simple harmonic motion, molecular motions, kinetic theory, laws of thermodynamics, waves, elementary statistics and quantum physics, and electricity and magnetism.

The course structure is two hours of lectures (with discussion and demonstrations), one hour of tutorials per week, and three hours of laboratory every second week. The required text is R.L. Armstrong and J.D. King, *Mechanics, Waves, and Thermal Physics*, Prentice-Hall. The method of evaluation is one problem set per week, mid-term tests, laboratory work, and a final examination.

Exclusion: PHYA01

Corequisites: MATA22 or MATA26 or MATA55

Session: Winter Day

PHYB01Y Electricity and Magnetism / M.J.G. Lee, J.M. Perz

Electrostatics; electric field and potential; electric currents; direct current circuits; special relativity and Lorentz transformation; magnetic field and vector potential; fields of moving charges; transformation of fields; electromagnetic induction; Maxwell's equations and wave propagation; introduction to electric and magnetic fields in matter; alternating current circuits. The course structure is two one hour lectures per week and one problem set per week. The emphasis will be on a thorough understanding of fundamentals, and on logical reasoning in proofs and problem solutions. The method of evaluation is a term test in December, a final examination in April/May; quizzes and problem sets - each to count for approximately one third of the final grade.

Prerequisites: PHYA01 (recommended) or PHYA02

Corequisites: MATB41 or MATB50

Other Recommended Courses: MATB42 or MATB55; PHYB08H (a laboratory) would also be helpful.

Session: Winter Day

PHYB04F Waves / P.J. O'Donnell

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.

Prerequisites: PHYA01 or PHYA02; MATA26 or MATA55

Session: Winter Day

PHYB06Y Principles of Contemporary Physics / M.B. Walker, M.J.G. Lee

This course surveys the remarkable progress that has been made in understanding the physical world in the twentieth century. It is designed for students whose interests are in the Life Sciences or in interdisciplinary studies, and is a natural continuation of PHYA02Y. The topics include: special theory of relativity, relativistic dynamics, Maxwell's equations, electromagnetic waves, wave-particle duality, de Broglie waves, the Schroedinger equation, the hydrogen atom, atomic and molecular structure, the solid state, nuclear physics, the fundamental particles.

The course structure is two lectures and one tutorial per week. Problem sets will be discussed in detail in a weekly tutorial. The required text is *Fundamentals of Waves, Optics, and Modern Physics* by H.D. Young, 2nd Edition (McGraw-Hill, 1976). The method of evaluation is a Christmas exam, a final exam, mid-term tests, and problem sets.

Exclusions: PHYB17; PHYB18

Prerequisites: PHYA02 or PHYA01; MATA22 or MATA26 or MATA55

Session: Winter Day

PHYB08H Intermediate Physics Laboratory / M.J.G. Lee, J.M. Perz

Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01 and PHYB06). 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. The method of evaluation is based, with equal weight, first on the preparation and performance of the experiment, and recording of observations and data, and secondly on four formal laboratory reports. At the beginning of the course, two hours of lectures will be given on electrical circuit theory, for the benefit of those who wish to do experiments in that area. (Attendance will be voluntary.)

Prerequisite: PHYA01 or PHYA02

Corequisite: PHYB01 or PHYB06

Session: Winter Day

PHYB09S Thermodynamics / G.A. Kenney-Wallace, A. Griffin

General principles of classical thermodynamics including the first, second and third laws and applications. Lectures are the same as those for the spring term half of CHMB03Y; problems oriented towards applications in physics will be provided.

Exclusion: CHMB03

Prerequisites: MATB41 or MATB50, PHYA01 or PHYA02

Corequisite: MATB42

Session: Winter Day

PHYB17S Introduction to Quantum Physics / A.E. Jacobs

Experimental evidence of the need for quantum physics (photoelectric effect, atomic spectra, matter waves, blackbody radiation). Wave packets and the Schroedinger equation. Energy quantization, tunnelling, the harmonic oscillator. Quantization of angular momentum and spin.

Exclusion: PHYB06

Prerequisites: PHYB04; MATB41 or MATB50

Session: Winter Day

PHYB18F Special Relativity / A. Griffin

Foundations of relativity theory. Lorentz transformations. Relativistic kinematics and optics. Space-time four-vectors, relativistic particle mechanics.

Exclusions: JPAC08; PHYB06

Prerequisites: PHYA01 or PHYA02

Session: Winter Day

PHYC01Y Quantum Physics / A. Griffin

Introduction to the basic idea of quantum mechanics and to its applications in Modern Physics.

Development of quantum physics during the first quarter of the present century. Schroedinger's equation, Heisenberg's matrix mechanics and their inter-relation. Correspondence Principle. Applications to simple harmonic oscillators, to particles confined in a box, and to hydrogen-like atoms. Simple scattering problems, tunnel effect. Approximation methods with application to the helium atom and the hydrogen molecule. Quantization of angular momentum. Electron spin. Isospin and other quantum numbers of particles and nuclei. Rotation and vibration of molecules and atomic nuclei. Excited states of quantized systems. Spontaneous and stimulated emission of electromagnetic radiation. Energy bands in periodic potentials. The method of evaluation is problem sets and term tests. The reference used is *Quantum Physics of Atoms, Molecules, Solids, Nuclei and Particles* by R. Eisberg and R. Resnick.

Prerequisites: PHYB01, MATB50 or (MATB41 and MATB42). PHYB17

Session: Winter Day

PHYC03Y Electromagnetic Fields and Waves / M.B. Walker

Electrostatic fields in vacuum and in dielectric materials; multipole expansion, polarization, polarization current density, susceptibility, forces on conductors, forces on dielectrics etc. Laplace's and Poisson's equations and their solutions in particular cases. Special relativity and the transformation laws obeyed by the fields and potentials. Magnetostatic fields in vacuum and in materials; induction, inductance, magnetic torque and pressure, magnetization, susceptibility, hysteresis, etc., Maxwell's equations. Propagation of electromagnetic waves in infinite media (free space, nonconductors, conductors and low-pressure ionized gases); Poynting vector. Reflection and refraction of electromagnetic waves; Snell's law, Fresnel's equations, Brewster angle, total internal reflection, etc. Wave guides, TE, TM and TEM waves. Radiation of electromagnetic waves; antennae.

The bibliography is (1) *Electromagnetic Fields and Waves* by P. Lorrain and D. Corson (2nd edition); (2) *Foundations of Electromagnetic Theory* by J.R. Reitz and F.J. Milford; (3) *Electromagnetic Fields and Interactions*, Volume 1 by Richard Becker; (4) *Classical Electrodynamics* by J.D. Jackson. The method of evaluation is two term tests and problem sets.

Prerequisites: PHYB01; PHYB04; MATB41 or MATB50

Corequisite: MATC51

Other recommended course: PHYB18

Session: Winter Day

PHYC05H Advanced Physics Laboratory / M.J.G. Lee, J.M. Perz

A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in Physics. Limited enrolment: 20.

This course is designed to involve students in some more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties. The course structure is one six-hour laboratory period every second week. A single experiment may extend over more than one period. The method of evaluation is based, with equal weight, first on the performance of the experiments and recording of observations and data, and secondly on four formal reports.

Prerequisite: PHYB08 and permission of instructor

Corequisite: PHYC01

Session: Winter Day

PHYC06F Statistical Physics / P.J. O'Donnell

Studies of entropy, thermodynamics and statistical mechanical ensembles, with applications including the kinetic theory of gases, paramagnetism, the specific heats of gases, isotope separation and phase transitions.

Exclusion: PHYB05

Prerequisite: PHYB17

Session: Winter Day

POLITICAL SCIENCE

Assistant Chairman: E. Andrew

There is no concise and satisfactory definition of "politics". Thus it has been suggested that politics is "the art of the possible", that politics is about the resolution of conflict and accommodation of diverse interests, that politics is about power and "Who gets, What, When and How", that politics is about "the Good", and so forth. Indeed, in a sense the study of politics is a continuing exploration of these suggestions. But on the whole, as one writer has proposed, it is wiser "to start with ordinary usage, and to explore its implications, rather than to begin or end with a formal definition."

The academic study of politics ranges from philosophical speculation to the empirical analysis of political behaviour. As a discipline it is loosely constructed, although in recent years a more rigorous method has been employed in several fields. In fact, the scope of the subject reveals the impossibility of clearly separating Political Science from a number of other disciplines. At the same time, within the discipline of Political Science itself it is customary to recognize the existence of several major fields, i.e., Political Theory, International Relations, Comparative Government, Political Behaviour and Public Administration.

The Political Science Programme at Scarborough College offers a broad and varied selection of courses from every field within the discipline. It is designed to 1) satisfy the needs of students who intend to pursue careers in government service and teaching, and in the legal and business professions; 2) prepare students who wish to go on to advanced graduate study within political science; 3) to offer an interesting range of courses to students who wish to explore in a less structured way the important questions of political inquiry.

Courses may be taken in varying sequences and combinations, leading to specialist certification for those completing an approved ten-course load over four years, or to certification for the completion of an approved specialized study programme of recognized academic merit.

Course and Programme Selection

Students who intend to pursue some degree of specialization in Political Science should, at an early moment, draw up a preliminary programme of study in consultation with a member of the Political Science Staff.

The recommended sequence of courses would begin with an introductory course at the A level (POLA01 Introduction to Political Studies; POLA02 Introduction to Political Theory; POLA03 Introduction to Comparative Politics). Students interested in domestic politics and careers in government should begin with POLA01 since it is a prerequisite for advanced courses in Canadian Government and Politics. Students intending to seek certification should register by filing the appropriate Registration form with the Divisional Secretaries in R5111. While supervision of final certification is the responsibility of the Supervisor of Studies, Professor M.W. Donnelly, you should consult with the faculty member you know best for guidance on course selection. An Orientation meeting will be scheduled in the early fall to help familiarize students with the aims of the political science programme, as well as to introduce faculty responsible for teaching, and career and graduate study guidance.

Major Programme in Political Science

Supervisor of Studies: M. Donnelly

Students should complete at least ten courses in Political Science including:

- (1) two courses in Political Theory (POLB70-B79, POLC70-C79)
- (2) POLB50Y (Canadian Government and Politics)
- (3) A course in any three of the following five fields:
 - A. Public Administration: POLB60-B64, POLC60-C64
 - B. Political Behaviour: POLB65-B69, POLC65-C69
 - C. International Relations: POLB80-B84, POLC80-C84
 - D. Comparative Politics, Industrial Countries: POLB85-B90, POLC85-C90
 - E. Comparative Politics, Developing Countries: POLB91-B99, POLC91-C97.

POLA01Y Introduction to Political Studies / S.G. Solomon and T.J. Colton

An introduction to some of the most vexing problems of political life - such as participation, equality, liberty, distribution of power, and the influence of vested interests. Students will examine these problems as they are treated by major political theorists and as they occur in the institutional structures of Canada and some other Western democracies.

Session: Winter Day, Summer Day

POLB50Y Canadian Government and Politics / R.S. Blair

A study of Canadian political institutions and processes.

Specific topics include: the constitution, federalism, fiscal relations, political regionalism, class and politics, Quebec, political parties, interest groups, representation, Parliament, Cabinet, legislative-executive relations, the public service, policy-making. There will be two lectures a week and tutorial groups will meet once every two weeks. The scheme of evaluation consists of two essays and a term test, each worth 20% of the final mark, and a final examination, worth 40%. For preliminary reading students are recommended to read T.A. Hockin, *Government in Canada*.

Exclusion: (POLB01Y) POLA01 prior to 1978-79

Session: Winter Day

POLB51S Government and Politics in Ontario / J. Esbrey

The course begins with a study of the provincial constitution and then proceeds to an analysis of elections and the party system. Thereafter the major institutions - executive, legislature, and the public service - together with their inter-relationships are examined.

It will be assumed that the students have acquired a basic knowledge of parliamentary government in Canada so that attention can be focused on the distinctive way in which this system operates in Ontario. Where possible emphasis will be placed on case studies of the system in practice and will include an examination of provincial-local government relations.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting and will include a combination of examination, essays and class discussion.

Exclusion: (POLB37F/S)

Prerequisite: POLA01Y or POLB50Y (formerly B01Y).

Session: Winter Day

POLB52F Canadian Constitutional Law / R.S. Blair

The greater part of the course will be devoted to an examination of the judicial role in interpreting the division of legislative powers contained in the B.N.A. Act. The 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 scheme of evaluation consists of an essay and a final examination, each worth 50% of the final mark. The main text in the course is Peter H. Russell (ed.), *Leading Constitutional Decisions* (rev. ed.).

Exclusion: (POLB32F/S)

Prerequisite: POLB01Y - POLA01 prior to 1978-79

Session: Winter Day

POLB53Y Public Policies in Canada / R. Manzer

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: (POLB35Y)

Session: Winter Day

POLB60Y Public Administration / J. Galimberti

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: (POLB05Y)

Session: Winter Evening

POLB70Y Political Thought from Plato to Locke / E. Andrew

A discussion of the political thought of Plato, Aristotle, Augustine, Machiavelli, Hobbes and Locke.

Students will be expected to read Plato's *Republic*, Aristotle's *Politics*, Machiavelli's *The Prince*, Hobbes' *Leviathan* (Parts one and two) and Locke's *Second Treatise of Government*. The political writings of St. Augustine and St. Thomas Aquinas will also be studied.

The teaching method will be two hours of lectures and one tutorial hour per week. The course evaluation will be based on a final examination (50%) and two term papers (each 25%).

Exclusion: (POLB06Y)

Session: Winter Day

POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries / E. Andrew

A study of the major political philosophers of the eighteenth and nineteenth centuries.

Students will be expected to study selected writings of Rousseau, Burke, J.S. Mill and Marx. These writers will be dealt with thoroughly in lectures and tutorials. Less intensive attention will be devoted to Montesquieu, Hume, Kant, Hegel, Paine, Bentham, St. Simon, Tocqueville, Carlyle, Bakunin and Nietzsche.

The teaching method will be two hours of lecture and one tutorial hour per week. The course evaluation will be based on a final examination (50%) and two term papers (each 25%).

Exclusion: (POLB03Y)

Session: Winter Day, Winter Evening

POLB80Y International Relations / A. Rubinoff

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: (POLB10Y)

Session: Winter Day

POLB81F Canadian Foreign Policy / J. Esbrey

An examination of the nature and making of Canadian foreign policy.

The course will explore the rationale for Canada having a foreign policy at all. The relationship between foreign policy and defence and economic issues. The methods whereby foreign policy decisions are made and the role of public opinion, provincial governments and legislators in this field.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.

Exclusion: (POLB40Y)

Prerequisite: POLB01Y (formerly A01Y) or POLB10Y

Session: Winter Day

POLB82Y American Foreign Policy / A. Rubinoff

This course examines the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world.

Exclusion: (POLB42Y)

Prerequisites: POLB10 or POLB26 (now POLB87)

Session: Winter Day

POLB85Y Comparative Politics of Industrial Societies / M.W. Donnelly

A comparative analysis of major themes in the politics of industrial societies, including political accountability and state interventionism.

This course is an examination of the conditions of government and political freedom in industrial societies. We begin by examining the process of industrialization and the formation of the modern state. Thereafter, a number of interrelated issues are examined: interaction among political and bureaucratic elites, methods of political control and interest representation, the dynamics of the welfare and warfare state, and the future conditions of the post-industrial society.

Organization will consist of a seminar. Oral presentations and a paper will be required in addition to a final exam. Preparatory reading might include J.K. Galbraith, *The New Industrial State*.

Exclusion: POLB18Y

Prerequisite: One course in Political Science or permission of instructor.

Session: Winter Day

POLB86Y Soviet Government and Politics / T.J. Colton and S.G. Solomon

The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects.

The course examines the formation and consolidation of the Soviet political order and the urgent problems confronting Soviet society today, both internally and in its relations with other states.

This is a lecture course. Students will be evaluated on the basis of one essay each semester and a final examination.

Exclusion: (POLB23Y)

Session: Winter Day

POLB87Y U.S. Government and Politics / M.W. Donnelly

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.

Organization will consist of lectures and discussion. Evaluation will be based on a combination of exams and essays.

Exclusion: (POLB26Y)

Session: Winter Day

POLB88Y Urban Politics / T.J. Colton

An examination of the politics and government in urban areas: the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision-making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.

Exclusion: (POLB36Y)

Session: Winter Evening

POLB91Y Politics of the Third World / K.R.J. Sandbrook

The emphasis in this course will be upon the effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporation, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya.

The major aim of this course is to demonstrate that any successful anti-poverty programme for Third-World societies must combine widespread change in both national and international political and economic orders. The course thus encompasses analyses of both the political economy of each of four Third-World countries and the transnational influences emanating from advanced industrialized countries. A good book which examines the link between reform at the national and international levels is Mahbub ul Haq's *The Poverty Curtain: Choices for the Third World* (New York: Columbia Univ. Press, 1976).

Exclusion: (POLB38Y)

Session: Winter Day

POLB93Y The Chinese Political System / V.C. Falkenheim

An analysis of Chinese political institutions, behaviour and thought, with primary emphasis on the contemporary political system since 1949.

Exclusion: (POLB17Y)

Session: Winter Day

POLB94Y Politics and Government in South Asia / A. Rubinoff

While the emphasis is upon the politics and government of contemporary India, this course also draws comparisons to the situation elsewhere in South Asia.

Exclusion: (POLB33Y)

Session: Winter Evening

POLC51S Topics in Canadian Government / J. Esbrey

An intensive study of selected important topics in the field of Canadian government and politics. This year the topics to be explored will include:- The politics and management of Canadian economic policy; secrecy; delegated legislation and its consequences; consequences of structural 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. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.

Exclusion: (POLB37F/S)

Prerequisite: POLA01Y or POLB01Y (now B50Y)

Session: Winter Evening

POLC60F Administrative Politics / R. Manzer

An analysis of the politics of initiative, decision, and implementation in the public administrative systems of industrial countries.

Prerequisite: POLB05Y (now B60Y) or permission of instructor

Session: Winter Day

POLC61S Policy Development / R. Manzer

An analysis of contemporary trends in political issues and public policy in the areas of economic stabilization, public education, and criminal justice, primarily in Canada but with reference to comparable developments in other industrial countries.

Prerequisite: POLB05Y (now B60Y) or POLB35Y (now B53Y)

Session: Winter Day

POLC62F Organized Interests and the State / V.C. Falkenheim

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: POLA01Y or POLB05Y (now B60Y) or POLB85Y

Session: Winter Day

POLC65F Topics in Political Leadership / J. Esbrey

This course will involve detailed studies of specific political leaders in the light of a variety of theories of leadership. While the emphasis will be on psychological theories, students who have the necessary background may apply other approaches. It is assumed that the leaders selected for study will come from the areas of Canada, the United States and Western Europe but other political leaders may be studied where the students have the appropriate background.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.

Exclusion: (POLC12F/S)

Prerequisite: POLB66 (POLB24Y) or POLA01 or POLB50Y (POLB01Y) or POLB85Y (POLB18) or POLB87 (POLB26) or POLC50Y (POLC15Y)

Session: Winter Evening

POLC70Y Twentieth Century Political Thought / S.G. Solomon

A study of some of the major developments in political thought in the 20th Century.

The course examines the evolution of democratic theory with particular attention to the impact on that theory of the sociopolitical crisis (The failure of democracies and rise of fascism in Europe) and the growth of new approaches to social inquiry (quantitative research, behavioural studies).

Students will be evaluated on the basis of one essay each semester and a final examination.

Exclusion: (POLB29Y)

Session: Winter Day

POLC81S The Psychology of International Relations / J. Esbrey

This course will explore the contribution that psychological knowledge can make to an understanding of international relations. Problems to be considered include problems of war and peace, the influence of perception on foreign policy decisions, the influence of personality on decision making.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.

Exclusion: (POLC11F/S)

Prerequisite: POLB24 or POLB10

Session: Winter Day

POLC85Y Comparative Communism / T.J. Colton and V.C. Falkenheim

An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.

Exclusion: (POLC06Y)

Prerequisite: One B-level course in Political Science

Session: Winter Day

POLC86S Intergovernmental Relations in the European Economic Community / J. Esbrey

An examination of some of the problems of intergovernmental relations which arise in regional organizations such as the E.E.C. and the machinery which has been developed to cope with these problems.

The course begins with an overview of the institutional machinery of the E.E.C. and proceeds to a detailed examination of a number of case studies of intergovernmental decision-making in the Community.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion. The specific method of evaluation will be decided at the first meeting but will include a combination of examination, essays and class discussion.

Exclusion: (POLB34F/S)

Session: Winter Day

POLC91F Urbanization and Underdevelopment / K.R.J. Sandbrook

An analysis of how cities in selected African and Latin American countries reflect the underdevelopment of the latter in their histories, functions, occupational structures and processes of social marginalization, and of the efficacy of present and proposed policies and strategies to ameliorate the major problems arising thereof.

Students who wish to do some preparatory reading for this seminar course are directed to Janice Perlman's *The Myth of Marginality: Urban Poverty and Politics in Rio de Janeiro* (Univ. of California Press, 1976) and Andrew Hake's *African Metropolis: Nairobi's "Self-Help City"* (New York: St. Martin's Press, 1977).

Exclusion: (POLC13F)

Prerequisites: A B-level course in a social science. A prior course on development or some part of the Third World is advisable but not mandatory.

Session: Winter Day

POLC92S Multinational Corporations and Underdevelopment / K.R.J. Sandbrook

This course will assess the impact of these large, Western-based firms upon the politics and economies of selected countries in Africa and Latin America. Particular attention will be placed upon the strategies, both in operation and in prospect, to control the firms and extract the maximum benefits from their operations for the poor. There will be case studies of multinational firms engaged in both primary production and manufacturing in underdeveloped countries.

Students who wish to undertake some background preparation for this seminar course are advised to read one or both of: Richard Barnett and Ronald Muller's *Global Reach: The Power of the Multinational Corporations* (New York: Simon & Schuster, 1974) and Raymond Vernon's *Storm over the Multinationals: The Real Issues* (Cambridge, Mass.: Harvard Uni. Press, 1977).

Exclusion: (POLC14S)

Prerequisites: One Social Science course dealing with the third world or development.

Session: Winter Day

POLC98F Supervised Reading / Staff

Advanced reading programme in special topics.

This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.

Exclusion: (POLC04F)

Prerequisite: One B-level course in Political Science; permission of instructor.

Session: Winter Day

POLC99S Supervised Reading / Staff

Advanced reading programme in special topics.

This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.

Exclusion: (POLC05S)

Prerequisite: One B-level course in Political Science; permission of instructor

Session: Winter Day

COURSES NOT OFFERED in 1979-80

POLA02 Introduction to Political Theory

POLB54F Intergovernmental Relations

Exclusion: (POLB19F)

Prerequisite: POLA01

POLB65Y Political Behaviour

Exclusion: (POLB30Y)

POLB66Y Psychology and Politics

Exclusion: (POLB24Y)

POLB89Y Politics and Society in Contemporary Japan

Exclusion: (POLB39Y)

POLB92Y Politics and Society in Independent Africa

Exclusion: (POLB12Y)

Prerequisites: None, but a course in introductory political science would be helpful

POLC50Y Canadian Problems in Comparative Perspectives

Exclusion: (POLC15Y)

Prerequisite: One of: POLA01, A03, B26, B34

PSYCHOLOGY

Psychology is that branch of science which seeks to understand behavior 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 behavior.

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 behavior; how their behavior relates to physiological functions; and how individuals differ from each other. The course offerings in Psychology consider how psychologists pursue enquiries into these areas and what knowledge they have gained.

Students interested in Psychology and planning to enter teaching or research professions should consider following the Major Programme in Psychology. Students who are interested in proceeding to the graduate level in Psychology should aim for a well-rounded undergraduate programme rather than narrow specialization in the area which is of immediate interest. The experience which is provided by the Thesis (C98Y) is of particular value to prospective graduate students.

It will often be appropriate to include as well courses in other disciplines, such as Anthropology,

Biology, Computer Science, Linguistics, Mathematics, Natural Science, Philosophy, and Sociology. The following courses merit special attention:

ANTA01Y	Introduction to Anthropology
ANTB17S	Complex Societies
ANTB18Y	Cultural Evolution
ANTB22Y	Primate Behaviour
BIOA03Y	Introductory Biology
BIOB05Y	Genetics
BIOB11Y	Animal Populations and Evolution
BIOB12Y	Fundamentals of Ecology
BIOB17Y	General and Comparative Physiology
CSCA56F	Computer Programming
CSCA66S	Programming Applications
JLPB55F	Psycholinguistics
LINA01Y	General Linguistics
LINA04S	Introduction to Language
MATA22Y	Techniques of Calculus
NSCA01Y	Introduction to Natural Science: Physical Science
NSCA02Y	Introduction to Natural Science: The Biological Sciences
PHLA01Y	Fundamental Questions of Philosophy
PHLB20S	Belief, Knowledge and Truth
PHLB70F	Philosophy of Science
PHLB81S	Theories of Mind
SOCA01Y	Introduction to Sociology
SOCB02Y	Structure of Interpersonal Relations
SOCB07Y	Small Groups
SOCB18Y	Sociology of Deviant Behaviour

Members of staff are available for consultation in the planning of your programme in Psychology.

Major Programme in Psychology

Supervisor of Studies: J.N. Bassili

This programme is taken as part of the twenty-course degree programme.

Nine full-course equivalents in Psychology including:

- (1) PSYA01 or (A02)
- (2) PSYB07
- (3) At least one full-course equivalent from among PSYB09, B11, B40, B41, B52, B62.
- (4) At least one additional full-course equivalent from the B-level 10-, 20- and/or 30-series.
- (5) At least one additional full-course equivalent from the B-level 40-, 60- and/or 70- series.
- (6) At least one additional full-course equivalent from the B-50 series.
- (7) At least two full-course equivalents at the C-level. Not more than one full course equivalent selected from C90, C93, and C98 may be offered in satisfaction of this requirement. All 400-level courses on the St. George campus are considered to be at the C-level. Only some 300-level courses are treated as C-level courses; the student is advised to check the table of course equivalents in Psychology.

PSYA01Y Introduction to Psychology / N.W. Milgram, first term, B. Richardson, second term

The basic principles and methods of contemporary Psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Two three-hour lectures per week. Lectures include discussion, demonstrations, films and laboratory exercises (TBA). One comprehensive text and one book of relevant readings. The titles for Summer, 1979 have not yet been selected. There will be two term tests during the course (45%); a final examination (40%); laboratory reports (15%).

Exclusion: (PSYA02)

Session: Summer Evening

PSYA01Y Introduction to Psychology / M.C. Smith; The Faculty

The basic principles and methods of contemporary Psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behavior, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience. Three lecture hours per week. In addition, students will complete four laboratory exercises in the course of the year, each requiring four hours of lab attendance on dates to be scheduled early in the session. A text for 1979 has not yet been selected. In addition, a book of readings to supplement the text is typically employed. Three term tests in class hours (45%); three-hour final exam (40%); three lab reports (15%).

Exclusion: (PSYA02)

Session: Winter Day, Winter Evening

PSYB07F Data Analysis in Psychology / B. Forrin

Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behaviour of man is explained by observing the behavior of men. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed.

Courses in data analysis typically cover the same topic areas. Identification, classification, and reduction of the data are generally the precursors to analysis and represent the descriptive part of the course. Probability and chance is the key to inferential statistics. Hypothesis testing, of course, is embedded in the parametric and nonparametric tests discussed. Four hours of lecture (with in-class problem solving) and one hour of tutorial per week. Evaluation will be announced in the fall. (Students concerned about the sufficiency 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.)

Exclusions: MATB52 (ECOAO2), ECOB11, GGRB02, SOCB01

Session: Winter Day

PSYB08S Experimental Design in Psychology / B. Forrin

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.

The analysis of variance has played a central role in the design and interpretation of psychological research. The course focuses on this research tool providing the rationale and mechanics of its use. Three hours of lecture and one hour of tutorial per week. The method of evaluation will be announced later.

Exclusion: MATC52

Prerequisite: PSYB07 or MATB52

Session: Winter Day

PSYB09S General Experimental Psychology / G.B. Biederman

The experimental technique of Psychology as applied to problems in learning, motivation and perception in infrahuman and human organisms. This course emphasizes research methods of Psychology and is intended to provide a broad foundation of basic information and research techniques required in specialized laboratory courses and advanced courses.

Provides introduction to methodological design problems in Psychology in an empirical rather than statistical framework; i.e., how did you find out, rather than what did you find? Other recommended courses: Prior or concurrent enrolment in PSYB07. Normal lectures will be given, but a "workshop" context will be employed. Course will be unitized and following each unit a practice (non-graded) exam will be given with answers fully analyzed and "graded" by instructor and/or student. Practice exams may be retaken as desired. A comprehensive final exam will represent 40% of total course grade. Handouts will be given at the beginning of each laboratory and the student will be expected to answer questions posed. The lab assignment will comprise 60% of the total grade.

Prerequisite: PSYA01 or (PSYA02) or BIOA03

PSYB10F/S Introduction to Social Psychology / J. Bassili

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.

The course covers the following topics: social influence (conformity and obedience), prejudice, sexism, attitude change, group behaviour (crowding, crowd behaviour, panics), aggression, cooperation and competition, nonverbal communication, person perception, attraction and emotions. Teaching method: lectures and tutorials. Evaluation will be on the basis of three one-hour examinations.

Prerequisite: PSYA01 or (PSYA02)

Session: Summer Day, Winter Evening (F), Winter Day (S)

PSYB11F Social Psychology Laboratory / K. Dion

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.

Students will be introduced to conceptual and practical issues concerning research in social psychology, by gaining experience with several different types of research. Teaching method will be lecture-discussion and laboratory work. Evaluation will be on the basis of one essay examination and laboratory reports based on class projects.

Prerequisite: PSYB07; PSYB10

Session: Winter Day

PSYB12F Advanced Social Psychology / G. Cupchik

Paradigm change in social psychology; the role of descriptive and experimental methodologies; attribution theory; emotion theory; subjective and objective judgmental processes; judgment of emotional expressions, individual differences in social psychological processes.

Beginning with a discussion of appropriate methodologies for the investigation of social phenomena, the course considers the dominant viewpoints in contemporary social psychology. The discussion then turns to the specific and yet related problems of attribution theory, internal and external control, coping with stress, subjective and objective judgments and the judgment of emotional states. The objectives are to attempt a critical analysis of developments in social psychology through an examination of the theories, methods and results of recent research. Evaluation will be on the basis of a term multiple choice and final multiple choice examination.

Prerequisite: PSYB10

Session: Winter Evening

PSYB20F Developmental Psychology

This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g. Piaget's cognitive theory, social learning view. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child; e.g. social attachment, intelligence, sex-roles and achievement.

The course focuses on developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social developmental perspectives. The teaching method will be two lecture hours plus one tutorial per week. The purpose of the third hour is to provide an opportunity for students to discuss lecture and reading material in smaller class sections. Information on evaluation will be available in the fall.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Day

PSYB30S Personality / A. Kukla

How psychologists study the individual and his behavior. Examples of both the traditional broad theories of behavior (e.g. Freud's psychoanalytic theory) and the more contemporary research-oriented miniature theories will be discussed. The specific research areas which are covered vary somewhat from year to year. Achievement motivation, manifest anxiety, attraction, intelligence, computer models of personality, curiosity and exploratory behavior, personality assessment and non-verbal behavior are some of the topics which may be included in any given year.

The objectives of the course are to obtain an understanding of the various ways in which the human organism has been conceived by scientific psychologists, and the kinds of research questions and methods which each conception has generated. Specific topics vary from year to year. Three hours lecture weekly. Readings consist mainly of original research reports from scholarly journals. Evaluation will be announced later.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Day

PSYB32F/S Abnormal Psychology / J. Pauker

A critical examination of psychoanalytic, S-R, cognitive-interpersonal, biological and phenomenological views concerning the cause and treatment of abnormal behavior. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

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 behavior, within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Evening both terms

PSYB33S The Measurement of Psychological Attributes / B. Forrin

A fundamental concern within Psychology is the means by which the aptitudes and abilities of individuals, their interests and attitudes, their enduring character traits may be measured. Methodological principles underlying the construction of psychological tests, the interpretation of the scores they yield and the assessment of their values are discussed and illustrated by reference to a variety of psychometric instruments. Some attention is also devoted to certain substantive issues associated with the measurement of psychological attributes, e.g. the nature of "intelligence".

The course is intended to foster an understanding of how psychologists seek to derive meaning from measurement; it does not take as a significant objective the development of practical skills in test administration. For a detailed survey of topics covered, see Anastasi's *Psychological Testing* (4th ed.) or Cronbach's *Essentials of Psychological Testing* (3rd ed.). Three hours of lectures per week. Evaluation will be announced later.

Prerequisites: PSYB07 or MATB52; one additional half-course in Psychology at the B-level

Session: Winter Day

PSYB40F Learning / G.B. Biederman

Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to the problems and techniques in the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.

Provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation. Evaluation will be based on the same method as PSYB09S.

Prerequisites: PSYA01 or (PSYA02); PSYB09; PSYB07 or MATB52

Session: Winter Day

PSYB41F Operant Conditioning / G.B. Biederman

Review of operant conditioning research with laboratory exercises in operant schedules of reinforcement and stimulus control of behavior. Emphasizes study of the control of steady-state performance and provides opportunity for the observation and control of operant behavior in infrahuman subjects in the laboratory. Topics include: complex schedules of reinforcement, stimulus control, models of operant behavior, discussion of applications of operant techniques in behavior modification. Evaluation will be based on the same method as in PSYB09S.

Prerequisite: PSYA01 or (PSYA02); PSYB09; PSYB07 or MATB52 and PSYB40 are recommended

Session: Winter Day

PSYB45F Behavior Modification: Origins and Applications / F. Klajner

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 behaviours, fear extinction, assertive training; treatment of obesity; treatment of depression; systematic desensitization; treatment of anxiety; aversive counterconditioning; treatment of alcohol and drug abuse. Evaluation will be based on two term tests (25% each) and a final examination worth 50%.

Prerequisite: PSYA01

Session: Summer Day, Winter Evening

PSYB50F Sensation and Perception / J.E. Foley

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. A final examination and term assignment including tests and some short paper(s) or report(s).

Prerequisite: PSYA01 or (PSYA02)

Session: Winter Evening

PSYB51F Perceiving and Knowing / J.M. Kennedy

In obtaining information about our environment we rely on first-hand contact with real things, and also on second-hand contact, with representations - we have to distinguish between reality and appearance, objects and images, the pictured and pictures. The course examines such distinctions using data from children and adults, from different cultures, from different eras, and from different species. Demonstrations and exercises will form part of the course work, but prior knowledge of laboratory procedures is not required.

Theories of representation and research studies by psychologists and educators. Specific topics include displays for the perceptually handicapped, projection, outline representation, machine decoding of pictures, trompe l'oeil, ambiguous pictures, impossible objects, metaphor in pictures, perception by special groups in New Guinea, Africa, India. Cave art. Illusory effects. The teaching method will consist of lectures and exercises. Evaluation will be on the basis of three exercise reports and two multiple-choice/essay examinations.

Prerequisite: A B-level course in psychology (or PSYA01 or PSYA02 and permission of instructor); PSYB50, PSYB52, FARA70, PHLB03 are recommended

Session: Winter Day

PSYB52S Human Information Processing / M.C. Smith

Recently Psychologists who study human perception and behavior have begun to lay great emphasis on the way in which the human being actively and constructively processes information rather than merely responding passively to stimulation. The course introduces these ideas in their application to perception, memory, cognition, with special emphasis on quantitative studies. Selected laboratory exercises.

This course is designed to introduce students to one approach to understanding human behavior - an approach whereby the behavior is analyzed into a series of discrete stages or processes, each of which could be influenced by a variety of factors. The way in which attention and method of processing act at each stage is considered. This course meets three hours per week. Every other week there is only one hour of lecture and a two-hour lab, giving a total of six labs per session. There are two term tests, each of which comprises 25% of the total grade. The remaining 50% of the grade is based upon the written lab reports.

Prerequisites: PSYB50, PSYB07 or MATB52; PSYB09

Session: Winter Day

PSYB57S Human Learning and Memory / C. MacLeod

Discussion of the theoretical and experimental literature on human learning and memory. A general cognitive perspective is taken, where learning and memory are viewed as critical aspects of active information processing. The course will provide an in-depth analysis of the encoding, storage, and retrieval processes involved in active memory and in long-term memory.

The teaching method will consist of three lecture hours per week. Concurrent readings from the text and original sources will supplement and extend the lecture material. Students should be prepared to do a considerable amount of reading and thinking about the issues. Extra-class sessions can be arranged to pursue issues of less general interest. Evaluation will be on the basis of three components to the course grade: a multiple-choice mid-term exam worth 30%; a non-cumulative end-term exam also worth 30%; and a term paper worth 40%.

Prerequisite: PSYA01 or (PSYA02); PSYB09 or permission of instructor.

Session: Winter Day

PSYB60F Brain Mechanisms and Behaviour: I / N.W. Milgram

Students with prior credit for PSYB65 may take PSYB60 for credit. This course and PSYB61 deal with the relationship between behaviour and structure and function of the nervous system. Topics covered in PSYB60 include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behavior of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement.

The teaching method is three hours lecture and one hour lab or tutorial per week.

Prerequisite: PSYA01 or (PSYA02), PSYB65 is recommended for students with no Biology background.

Session: Winter Day

PSYB61S Brain Mechanisms and Behaviour: II Physiology of Motivation and Learning / T. Petit

This is a continuation of PSYB60. Topics covered under the category of Motivation will include physiological basis of eating, drinking and sexual behavior; sleep; and the neural correlates of reward. Topics covered under Learning include: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.

The course is designed to provide students with an understanding of the physiological substrates underlying behaviour. Discussions will centre around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In motivation, the general areas of feeding, sexual behaviour, and reinforcement will be discussed from neurological and neuropharmacological perspectives. Neurophysiological basis of learning and memory will be dealt with and then integrated with motivational models to provide a basis for understanding brain function in behaviour. Three hours of lecture per week. Two exams: mid-term and comprehensive final, 50% each.

Prerequisite: PSYB60

Session: Winter Day

PSYB62Y Research in Physiological Psychology / N.W. Milgram

Students learn how to use a variety of techniques used in investigations of nervous system function. The course is intended for students intending to pursue a major degree in either psychology or biology and who are particularly interested in the neurosciences.

The course starts out with a dissection of a sheep brain. Subsequently, the procedures covered include: (1) histology (preparing, cutting and staining neural tissue); (2) lesioning specific regions of the central nervous system; (3) chemical stimulation of the brain; (4) electrical stimulation of the brain; (5) programming relay circuitry; (6) electrophysiological recording techniques. The teaching method is two hours of lectures a week; three hours of scheduled laboratory work and, in addition, students might spend a few additional hours of their free time working in the student laboratory. The course involves a series of five laboratory projects, three mid-term examinations and one final examination.

Prerequisites: PSYA01 or (PSYA02); PSYB07 or MATB52; PSYB09 or a Biology course; permission of instructor

Corequisites: PSYB60; PSYB61 and PSYB08 are recommended

Session: Winter Day

PSYB65F Biological Foundations of Behaviour / T. Petit

Students with prior credit for PSYB60 may not take PSYB65 for credit. Examines the structural and physiological basis of behaviour. It is geared towards non-biologically oriented students.

Structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behaviour. Once these basic fundamentals are covered the course then focuses on the following: disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, mental deficiency and speech disorders); drugs of use and abuse (stimulants, depressants, and hallucinogens); and the biological basis for violence, schizophrenia, depression, psychosis and anxiety. The teaching method is three hours lecture weekly. There are two exams: mid-term and comprehensive final, worth 50% each.

Exclusion: PSYB60

Prerequisite: PSYA01 or permission of instructor

Session: Summer Evening, Winter Day

PSYC15S Current Topics in Social Psychology / J. Bassili

An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25.

The course will review the development of important theoretical and empirical approaches to the study of social perception. These will include the "New Look" approach, impression formation, attribution theory, and the perception of emotions and of social interaction. The teaching method is lectures and discussions. Evaluation consists of two one-hour examinations; one term paper.

Prerequisites: PSYB12 or (PSYB10 and permission of Instructor)

Session: Winter Day

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. For 1979-80 T.B.A. The teaching method consists of lectures, discussions, and oral presentations by students. The method of evaluation is to be announced.

Prerequisite: PSYB20

Session: Winter Day

PSYC22S Socialization Processes / Karen Dion

Covers the processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g. development of specific social behaviors) and the context in which it occurs (e.g. family, peer group, etc.). Material will be drawn from both Social and Developmental Psychology. Limited enrolment: 25.

The teaching method consists of lectures and discussion. Evaluation consists of essay examination; student presentation.

Prerequisites: PSYB10, PSYB20

Session: Winter Day

PSYC53S Current Topics in Human Information Processing / J.M. Kennedy

An intensive examination of selected issues and research problems in human information processing.

The blind and the deaf can alleviate their handicaps in many ways. For example, they can use their remaining senses in new ways, use simple devices to amplify perceptible signals, use signals transformed electrically and played onto the skin, employ Braille and speech vocoders and haptic pictures. What they are doing is taking advantage of perceptual tools and perceptible displays. This course will examine groundbreaking research on ways of assisting the handicapped, and search for general principles governing prosthetics and perception. The teaching method is a seminar. Evaluation will be by short essays (35%), a longer essay (60%), and 5% for class participation.

Prerequisites: A PSYB50-series course other than PSYB50F; permission of instructor

Session: Winter Day

PSYC53F Current topics in Human Information Processing: Music Cognition / A. Cohen

Like visual and linguistic pattern, music is a complex stimulus to which most people respond with considerable sophistication. This course provides the opportunity of exploring the implications of certain musical phenomena for the understanding of information processing.

Basic psychoacoustics, musical terminology, elements of music as stimuli in research (e.g., pure and complex tones, intervals, triads, scales, sequence, rhythms); methodologies (e.g., absolute judgment, discrimination, protocol analysis, multidimensional scaling); topics such as tonality, musical aptitude, improvisation; models of music perception and cognition. Teaching Method is lecture, demonstration, experiment, discussion, and oral presentation. Evaluation consists of short reports, e.g., analysis of a listening experience, critique of an article, discussion of an experiment (25%); midterm test (10%); final test (25%); individual project (40%)

Prerequisites: A PSYB50-series course other than PSYB50F; permission of instructor. (Formal training in music is not necessary).

Session: Summer Evening

PSYC53F Current Topics in Human Information Processing / Colin MacLeod

An active information-processing approach to the study of language will be outlined. The focus of the course will be on comprehension processes involved in understanding written and spoken discourse. Specific issues will include the representation of meaning in memory and the special problem of bilingualism.

There will be a two-hour lecture and a one-hour lecture-discussion each week. The lectures will provide a foundation for the study of psycholinguistics by examining the empirical and theoretical literature. In the lecture-discussion, students will take an active role in presenting and critically examining selected topics. Students will also be expected to do a considerable amount of reading outside the text. There will be three components to the final course grade: (1) Class presentation of a selected topic (20%); (2) Final short-answer and essay exam (40%); (3) Term-paper (40%)

Prerequisite: A PSYB50-series course other than PSYB50F; permission of instructor.

Session: Winter Day

PSYC60S Current Topics in Comparative and Physiological Psychology / T. Petit

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. There will be two hours lecture per week throughout the term. There will be a mid-term and final exam on the lectures and reading material, worth 45% each of final mark. Ten percent of the mark will be from evaluation of the student's performance in class and particularly in the practicum setting.

Prerequisite: PSYB60; permission of instructor

Session: Winter Day

PSYC80F Philosophy and Psychology / A. Kukla

An analysis of selected philosophical issues which concern the discipline of Psychology. Discussed will be such topics as: Behaviorism versus Phenomenology; the mind-body problem; free-will versus determinism; possible differences between Psychology and traditional scientific disciplines. Limited enrolment: 25

This course is intended to develop sophistication in dealing with developmental-philosophical issues which arise in the practice of psychology. The specific issues discussed vary from year to year. Teaching method consists of two hours of seminar weekly. Students will report on and critically evaluate recent papers in the philosophy of psychology. Evaluation has commonly been based on two essay examinations (40% of final grade each) and seminar presentations (20%).

Prerequisites: Three B-level half courses in Psychology and one B-level half-course in Philosophy

Session: Winter Day

PSYC85F History of Psychology / G. Cupchik

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 14th to the 19th 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. Evaluation consists of a mid-term exam, final essay exam, fifteen-page term paper.

Exclusion: (PSYC35)

Prerequisites: PSYA01 or (PSYA02); two B-level half-courses in Psychology

Session: Winter Day

PSYC90F/S/H Supervised Study in Psychology / Supervision by a faculty member

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 a field where these are available. The student must demonstrate that his/her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive 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. There is no final examination.

Prerequisites: Three full-course equivalents in Psychology; permission of instructor.

Session: Winter Day, Winter Evening

PSYC98Y Thesis in Psychology / Coordinator: M.C. Smith

This course is intended to offer to qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals; to appraise the proposals of others and to discuss the results of their investigation.

Students will meet as a group with the coordinator as well as individually with the supervisor. The final grade will depend on all aspects of the student's performance including the quality of the written thesis which will be read by both supervisor and coordinator.

Prerequisites: Satisfactory completion of fifteen full-course equivalents in any discipline but including 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

COURSES NOT OFFERED in 1979-80

- PSYB56 Man and Machines**
Prerequisites: PSYA01 or (PSYA02); quantitative skills such as are required in PSYB07, or PSYB09 are an advantage.
- PSYB70S Comparative Psychology**
Prerequisite: PSYA01 or (PSYA02).
- PSYC30 Current Topics in Personality and Motivation**
Prerequisite: PSYB30
- PSYC34 Phenomenological Psychology**
Prerequisite: Three B-level half-courses in Psychology
- PSYC40 Current Topics in Animal Learning**
Prerequisite: PSYB40
- PSYC52 Structures in Psychology**
Prerequisites: PSYB07 or MATB52 or PSYB09; PSYB20 or PSYB51; permission of instructor.
- PSYC56 Computers in Psychology**
Prerequisites: PSYB52 or PSYB57, and/or permission of instructor; limited enrolment 20.

RELATED STUDIES PROGRAMMES

CANADIAN STUDIES

Supervisor of Studies: J.M. Margeson

The College offers a large number of courses concerned with Canadian institutions, society, and culture, the pre-history and history of Canada, and its geography and physical environment. The Programme in Canadian Studies encourages students to choose basic courses from several disciplines, in more than one division, and then to do further work in one or two related areas.

Students should select seven full courses (or equivalent) as follows:

1. HISB09 Introduction to Canadian History
2. One of the following:
 ANTB21Y North American Background of Canadian Native Peoples (Prerequisite ANTA01, or permission of instructor)
 POLB50Y Canadian Government and Politics
 SOCB13Y Canadian Society (Prerequisite, one course in Sociology)
3. At least one half-course in French Canadian literature or a course on the French language in Canada (Prerequisite FREA01Y)
4. Three further courses from a single group, as listed below, but from *one* or *two* disciplines only within that group.
5. One additional course from a *second* group (though it may be taken from the same group if permission is obtained from the Supervisor of Studies).

(Note: Many of the following courses listed for this programme require a prerequisite within the discipline. Students should note from the Calendar whether a prerequisite or corequisite is required.)

Group I

- | | |
|---------|--|
| ENGB07Y | Introduction to Canadian Literature in English |
| B26Y | Canadian Poetry in English |
| B27Y | Canadian Fiction in English |
| FARB20Y | The Arts in Canada 1670 - present |
| B61Y | The Canadian Landscape |
| B62S | Recent Canadian Art |
| FREB36F | French Canadian Novel to 1945 |
| B37S | French Canadian Novel since 1945 |
| B38F | Theatre of French Canada |
| C39S | French Canadian Poetry |

Group II

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| ANTB16S | Cultures of Modern Canada |
| B21Y | North American Background to Canadian Native Peoples |
| B28F | Prehistoric Archaeology of Canada |
| HISB09Y | Introduction to Canadian History |
| B43Y | Ontario History |
| B46Y | Atlantic Canada |
| B47Y | The Canadian Left 1867 - present |
| C44Y | The Prairie Provinces 1850-1950 |
| POLB50Y | Canadian Government and Politics (POLB01Y) |
| B51F/S | Ontario Government (POLB37F/S) |
| B52F/S | Canadian Constitutional Law (POLB32F/S) |
| B53Y | Public Policies in Canada (POLB35Y) |
| B54F/S | Intergovernmental Relations in Canada (POLB19F/S) |
| C51F/S | Topics in Canadian Government (new) |
| B81F/S | Canadian Foreign Policy (POLB40Y) |
| C60Y | Public Administration (POLB05Y) |
| SOCB13Y | Canadian Society |
| B20Y | Ethnic and Race Relations |
| B23Y | Demography of Canadian Society |
| C14S | Mass Communications and Canadian Society |
| C24S | Changing Family Life in Canada |
| C27F | Social Class in Canadian Society |

Group III

- | | |
|----------|---|
| ECO A01Y | Introduction to Economics |
| B07Y | Macroeconomic Theory and Policy |
| B31S | Economy of the Public Sector: Taxation |
| B32F | Economy of the Public Sector: Expenditure |
| B45F | Poverty and Income Distribution |
| B47S | Urban Economics |
| B81Y | North American Economic History |
| COMC15Y | Income Tax |
| GGRB05Y | Urban Geography |
| B13Y | Cultural Geography |
| B16Y | Local Area Studies |
| B17Y | Themes in Rural Geography |
| C04S | Urbanization in Southern Ontario |
| B04Y | Geography in Canada |
| NSCA03Y | Ice Ages and Human Ecology |

DEVELOPMENT STUDIES

Supervisor of Studies: K.R.J. Sandbrook, Political Science

The systematic study of development is a fairly recent phenomenon, stimulated by the demise of formal colonialism since the end of World War II. The immense problems confronting newly-independent countries have spurred many sorts of scholarly investigation. Economists investigate patterns and means of economic development in order to discover how stagnant economies might attain self-sustaining growth. Sociologists and anthropologists study, among other things, processes and adaption and resistance to new ways of life. Political scientists seek to uncover the effects of existing structures of domination and to suggest solutions to the crises of national disunity and political instability. Geographers examine the spatial dimensions of modernization. Historians tackle such questions as the meaning and heritage of Western imperialism in the underdeveloped areas. The study of development is not, however, restricted solely to third-world countries. Some scholars have investigated the generic problems of development within backward or stagnant areas of so-called "developed" countries of the West as well.

Since the economic, social, cultural and political dimensions of underdevelopment are inextricably intertwined, scholars with an interest in development have been forced to admit the irrelevance of traditional disciplinary boundaries. As a consequence, development studies have emerged as an area of convergence of the subject matter of various social sciences and history. Economists, for instance now generally concede that the possibilities for economic development cannot be fully assessed in the absence of knowledge about the structure of power. Political scientists, in seeking such knowledge, themselves acknowledge that many of the causes of political change lie in the economic sphere. Students enrolling in some of the courses listed below will thus frequently find themselves studying similar problems in different parts of the world or different facets of the same generic problems. Many of the courses are complementary and should provide the interested student with a broad perspective on some of the most pressing problems of our age.

Development Studies is best regarded as a subsidiary interest for students whose primary interest lies in one or more of the Social Sciences or History. Anyone wishing to undertake a programme in Development Studies should register in at least five of the following courses:

ANTB03F	The Americas: An Anthropological Perspective
ANTB08F/S	Anthropology of Development
ANTB19S	Introduction to Economic Anthropology
ANTB32S	Introduction to Political Anthropology
ECOB66F	Economic Development
GGRC26Y	Geography of Underdevelopment
HISB21F	Frontier Communities in the British Empire and Commonwealth: The South African Case (not offered 1979-80)
HISB22S	British Imperialism in India (not offered 1979-80)
POLB91Y	Politics of the Third World
POLB92Y	Politics and Society in Independent Africa (not offered 1979-80)
POLB93Y	The Chinese Political System
POLB94Y	Politics and Government of South Asia
POLB89Y	Politics and Society in Contemporary Japan (not offered 1979-80)
POLC91F	Urbanization and Underdevelopment
POLC92S	Multinational Corporations and Underdevelopment
SOCB14Y	Comparative Social Structure (not offered 1979-80)
SOCB16Y	Social Change
SOCB23Y	Population
SOCB25S	Comparative Race Relations
SOCC17F	Social Change in the Third World

THE HISTORY OF IDEAS

Supervisor of Studies: William Graham

What has man made of man? The history of ideas is a special kind of Humanities programme for those who want to study the impact of major ideas on the development of western civilization. The programme offers a solid grounding in the intellectual history of mankind. The student is also helped to concentrate on areas of special interest to himself. Those who elect to take a twenty-course degree will take an individual study year with the supervision of several faculty members.

Taken as part of a fifteen-course degree, the course of studies must include:

- (1) HUMA01Y
- (2) PHLA01Y
- (3) FARA01Y or FARA03Y
- (4) One full course equivalent emphasizing major scientific ideas: i.e. one of NSCA01Y, NSCA02Y, or ASTA03Y, or the equivalent
- (5) At least one full course equivalent in History (including Greek and Roman History). Recommended courses are HISA01Y, HISB06Y, GRHB01Y, GRHB02Y, GRHB03Y
- (6) At least two full course equivalents in a language foreign to the student
- (7) At least two full course equivalents in Philosophy (4 Half Courses) from among PHLB12, B40 to B49
- (8) One full course equivalent emphasizing major ideas in the Social Sciences. Recommended are POLB70Y, POLB71Y, SOCB03Y, SOCC19F/S or the equivalent
- (9) HUMC01H
- (10) Electives should for the most part, develop work done in other courses

Taken as part of a twenty-course degree, the course of studies must also include:

An Independent Study Year, i.e. HUMC95-99Y, or its equivalent within one or more disciplines.

MYTH AND RELIGION

Supervisor of Studies: M.E. Irwin

This programme combines an examination of man's perception and experience of his religious and mythic heritage and institutions from the anthropological, historical, philosophical, sociological and literary points of view. Students should select at least seven full courses (or equivalent) as follows:

- (1) HUMA01Y Prologue
- (2) ANTB23Y Comparative Mythology
- (3) Two of the following half-courses:
 - ANTB02F/S Anthropological Study of Religion
 - PHLB61F/S Philosophy of Religion
 - SOCC20F/S Sociology of Religion
- (4) Five further courses from the remaining half-course above and the following courses:
 - ANTC02F/S Systems of Thought
 - CLAB02Y Greek and Roman Tragedy
 - CLAB21Y Greek and Roman Religion
 - CLAB23F/S Christianity in the Greco-Roman World
 - FARB24Y Medieval Art IV To XIV Century
 - HISB06Y Europe in The Middle Ages
 - HISB44F/S Canadian Religious Traditions
 - HISB13Y Europe in the Reformation Era 1500-1650
 - HISB61Y The Beginnings of France: Constantine to Charlemagne
 - HISC14Y The European Mentality in the Early Modern Period
 - HISC43F/S Selected Topics in Canadian Religious History

HISC62Y	The Crusades
HUMA10Y	Introduction to the Study of Religion
HUMA11Y	Greek and Roman Mythology
HUMB08Y	Orpheus
HUMB20Y	Primitive Christian Literature and Myth
HUMB28Y	Major Religious Traditions, East and West
HUMB33Y	World Visions from the Late Middle Ages to the Renaissance
HUMC20Y	Jesus in Early Christianity and Judaism
ITAB31Y	Dante and Medieval Culture*
PHLB44F	Philosophers of the Middle Ages I
PHLB45S	Philosophers of the Middle Ages II

Courses in Religious Studies offered on the St. George Campus especially:

REL 200	Ancient Myth and Ritual
REL 231	Christianity: Antiquity to Charlemagne
REL 232	Christianity: Middle Ages and Renaissance
REL 230	The Mythological Framework of Western Culture
REL 326S	Carl Jung's Theory of Religion

*The prerequisite requirement for this course, a course in "Intermediate Italian", will be waived for students in the Myth and Religion programme, who will be permitted to read the works in translation.

RUSSIAN

Discipline Representative: S. Whalen

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. (See also under *Modern Languages and Literatures* and *Russian or Related Studies* in the *Programmes* section of the College Calendar). *All Russian literature courses, with the exception of RUSC01Y, C02F, C03S, C04H, C05Y, are taught in translation and are open to non-specialists as well.*

Major Programme in Russian and Related Studies

Supervisor of Studies: S. Whalen

This area studies programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a programme in Russian and related studies can do much to promote a better understanding between East and West, in academic, governmental, industrial, journalistic and other fields.

The programme is 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.

Requirements:

Students intending to major in the area must complete a total of ten courses: two consecutive courses in Russian language, four core courses, and four optional courses. Programmes must be approved by a Board of Study in the term in which the fifth course is completed. The Board of Study is to consist of at least one faculty representative from each of the disciplines teaching within the programme:

Russian - C.V. Ponomareff
History - E.W. Dowler
Political Science - T.J. Colton, S.G. Solomon
Economics - J. Cohen
Philosophy - W.C. Graham
Humanities - K. Theil

Courses:

Languages: Two consecutive courses in Russian language are offered: (RUSA10Y, RUSB02Y).

Core Courses:

Russian	One full course equivalent from:	
	RUSB11Y	The Nineteenth Century Russian Novel
	RUSB21Y	The Twentieth Century Russian Novel
	RUSB23Y	Soviet Russian Underground Literature from the 1920's to the
Present	RUSC01Y	Twentieth Century Russian Poetry
History	HISB07Y	Russia from the Thirteenth Century to the Present
	HISC78Y	The Russian Intelligentsia
Political Science	POLB23Y	Politics and Society in the U.S.S.R.
Economics	ECOB68F/S	Comparative Economic Systems
Optional Courses:		
Russian	RUSA01Y	Introduction to Russian Culture and Literature
	RUSB16Y	The Fiction of Leo Tolstoy
	RUSB24F	Russian Symbolist Novel
	RUSB25Y	Post-1945 Soviet Russian Literature
	RUSC05Y	Supervised Reading
History	HISB18Y	Europe under the Enlightened Despots
Political Science	POLC06Y	Comparative Communism
Economics	ECOC07F/S	Economics of Karl Marx
Philosophy	PHLB12F/S	Marx and Marxism
	PHLB17F/S	Anarchism
Humanities	HUMB02F	Disaster and the Literary Imagination
	HUMB30Y	The Russian Revolution of 1917
	HUMB31Y	Russian and English Nineteenth Century Fiction
	HUMB42S	Dostoevsky and the West

Overseas Programme

Students in the *Russian and Related Studies* Programme at Scarborough College, after completing their second year of Russian language study, become eligible to apply to go to the Pushkin Institute of Russian Language and Literature in Moscow, USSR as participants of the Russian Studies Programme at Dalhousie University in Nova Scotia.

Each year some twelve Canadian students are selected by Dalhousie to spend four months studying Russian in Moscow (February - May). The programme involves 4 1/2 hours of intensive instruction per day by Soviet staff; students are housed three to a suite at the University Hotel; late afternoons and evenings are free for cultural and other activities. The cost, which covers air transportation Montreal-Moscow return, tuition, texts, room and board, is \$2,500.

Before applying to Dalhousie, and in order to improve their chances, interested students are encouraged to undertake some additional Russian language study either in the Summer Language Institute at the College, or in a Fall supervised reading course.

For information consult with Professor S. Whalen, Supervisor of Studies at the College.

RUSA10Y Introductory Russian / N. Kosachov

Fundamentals of Russian Grammar, with emphasis on comprehension and reading, writing and conversation.

The course is designed to introduce the student to the Russian language: reading, writing, elementary grammar, basic comprehension and conversation. Starting with the Cyrillic alphabet, students will study declensions, conjugations, the aspectual system and word order. Equal emphasis is given to written and oral drills. In addition to structural oral work in laboratory and class, free conversation based on material read is encouraged. There are four class hours in addition to which the student is expected to spend one hour in the Language Laboratory. The textbook used is Galina Stilman and others, *Introductory Russian Grammar*, Xerox College Publishing. Evaluation is on the basis of tests, class performance and homework. No final examination.

Session: Winter Day

RUSA10B Introductory Russian / Information will be available at a later date in Room H332A

This intensive course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday to Friday, for four hours over six weeks of supervised instruction, covering the comprehension and active use of the language. The textbook used is Galina Stilman and others, *Introductory Russian Grammar*, Xerox College Publishing. Evaluation is on the basis of tests, class performance and homework. No final examination.

Session: Summer Day

(see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office)

RUSA11S Elementary Conversation / Information will be available at a later date in Room H332A

This intensive one half credit course is designed for credit or non-credit students beginning their study of Russian. The class meets daily, Monday to Friday, for two hours over six weeks of supervised instruction. Structured and free conversational practice is based on a selection and reading of easy fictional and non-fictional texts. Students registering for this course must have RUSA10B as a corequisite course.

Corequisite: RUSA10B

Session: Summer Day

(see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office)

RUSB02Y Intermediate Russian / S. Whalen

Expanded study to increase ability in speaking, writing and reading Russian.

A study of Russian morphology involving translation, composition, selected reading in the original and conversation. The course meets four hours a week in two intensive two hour sessions plus additional language laboratory practice. The textbooks used are: P.A. Davis and 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. A final examination accounts for about one third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.

Exclusion: RUSA11

Prerequisite: RUSA10Y or completion of Grade 13 Russian

Session: Winter Day

RUSB02B Intermediate Russian / Information will be available at a later date in Room H332A

This intensive course is designed for credit or non-credit students who have already acquired a basic understanding of Russian. The class meets daily, Monday to Friday, for three hours over six weeks of supervised instruction, which will include the active use of grammar and work in translation. The textbook used is P.A. Davis and D.V. Oprendeck, *Making Progress in Russian*, Xerox, 1973. Translation work is based on P. Henry, *Modern Russian Prose Composition*, Book One, University of London Press, 1963. Evaluation is based on class work, one weekly test and a final examination. A placement test may be administered to students registering for credit.

Prerequisite: Grade XIII Russian or a comparable introductory course

Session: Summer Day

(see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office)

RUSB03S Intermediate Conversation / Information will be available at a later date in Room H332A

This intensive one half credit course is designed for credit or non-credit students who have already acquired a basic understanding of Russian. The class meets daily, Monday to Friday, for two hours over six weeks of supervised instruction. Although it can be taken separately, the extensive practice in spoken Russian, which is based on free and structured discussions of a variety of contemporary issues and materials, is intended to complement work done in RUSB02B.

Session: Summer Day

(see SLI Special Programmes Brochure available in Registrar's Office, Student Services and Divisional Office)

RUSB16Y The Fiction of Leo Tolstoy / R. Cockrell

Course offered in translation. Representative works will be read and discussed, in particular *Childhood*, *Sevastopol's Stories*, *The Cossacks*, *War and Peace*, *Anna Karenina* and *Resurrection*.

This is a two hour a week course that will be taught by an exchange scholar from Exeter, England. It is the first time that Russian at Scarborough College will offer a year course on one of the most outstanding and important figures of nineteenth century Russian literature.

Session: Winter Day

RUSB25Y Post-1945 Soviet Russian Literature / R. Cockrell

Course offered in translation. The course will cover the following authors and works: Evtushenko's *Stantsiya Zima* and other poems; Ehrenburg's *The Thaw*; Dudintsev's *Not by Bread Alone*; Pasternak's *Doctor Zhivago*; Kazakov's *Selected Short Stories*; Solzhenitsyn's *One Day in the Life of Ivan Denisovich*, *Cancer Ward*.

This is a two hour a week course that will be taught by an exchange scholar from Exeter, England. The course deals with one of the most interesting periods in Soviet Russia especially after Stalin's death in the spring of 1953. The selected poems, stories and novels are characteristic of what came to be called the literary "thaw" in the 1950's and in large part foreshadow Soviet dissident literature in the 1960's and 1970's.

Session: Winter Day

RUSC02F

C03S

C04H

C05Y Supervised Reading / Staff

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 on a literary project are expected to produce a paper in their area of study. There are no final examinations in these courses.

Prerequisite: RUSB02

Session: Winter Day or Winter Evening

COURSES NOT OFFERED in 1979-80

RUSA01Y Introduction to Russian Culture from the 10th Century to the Present

RUSB11Y The Nineteenth Century Russian Novel

Exclusion: HUMB31Y

RUSB21Y The Twentieth Century Russian Novel

RUSB23Y Soviet Russian Underground Literature from the 1920's to the Present

RUSB24F The Russian Symbolist Novel

RUSC01Y Twentieth Century Russian Poetry

Prerequisite: RUSB02

SOCIOLOGY

Assistant Chairperson: N. Howell

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change, the consequences of 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 sociology majors.

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 there will be no designations on diplomas.

The faculty advisers for special areas of concentration are:

Social Work - Prof. R.L. James
 Urban Studies - Prof. J. Hannigan
 Science and Medicine - Prof. M. Hammond
 Business and Government Administration - Prof. N. Howell
 Law and Law Enforcement - T.B.A.
 Education - Prof. J.A. Lee

Major Programme in Sociology

Supervisor of Studies: J.A. Lee

The major programme in Sociology requires the completion of nine and one-half full course equivalents in Sociology (in a 20 course degree). Courses required for the major programme accreditation:

- (1) SOCB01Y Methods of Research
- (2) SOCB06F/S Social Statistics
- (3) SOCB03Y History of Social Thought
- (4) SOCC05Y Contemporary Social Thought
- (5) One full course equivalent in a macrostructural field at the B-level. Any one of SOCB04Y, SOCB05Y, SOCB10Y, SOCB13Y, SOCB14Y, SOCB15Y, SOCB16Y, SOCB23Y or JCSB27Y.
- (6) One full course equivalent in a microstructural field at the B-level. Any one of SOCB02Y or SOCB07Y.
- (7) Two full course equivalents from the C-level offerings: SOCC01F/S, SOCC02F/S, SOCC03F/S, SOCC04F/S, SOCC06F/S, SOCC07F/S, SOCC10F/S, SOCC11F/S, SOCC12F/S, SOCC13F/S, SOCC16F/S, SOCC17F/S, SOCC18F/S, SOCC19F/S, SOCC20Y, SOCC21Y, SOCC22F/S, SOCC24F/S, SOCC25F/S, SOCC26F/S, SOCC27F/S, SOCC28F/S, SOCC29F/S
- (8) One full course equivalent from the C-level offerings: SOCC40F/S, SOCC41F/S, SOCC42F/S or SOCC43F/S.

SOCA01Y Introduction to Sociology / J.A. Lee

An introduction to the basic concepts, principles and methods of Sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions and social change.

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

SOCB01Y Methods in Social Research / S. Ungar

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 you with 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 course in Sociology

Corequisite: SOCB06

Session: Winter Day, Summer Day

SOCB02Y Structure of Interpersonal Relations / S. Ungar

The course will focus on the patterns of interaction and social influence in interpersonal behaviour. It begins with a consideration of labelling theory, with special attention given to stigmatization and the labelling of mental illness. Instead of treating mental illness as residing primarily in the individual, we will examine the role of other people in shaping or "altercasting" an actor's behaviour and the contingencies involved in discrediting an actor. The course will then analyze attribution theory, which considers how we explain both our own behaviour and the behaviour of other persons. This will be followed by an examination of exchange and impression management approaches to interaction. An attempt will be made to draw these various theories into a relatively comprehensive perspective which will subsequently be applied to other topics traditionally dealt with in social psychology. These topics include: attitude change, conformity, status and power relations in small groups, helping behaviour and aggression.

Prerequisite: One course in Sociology

Session: Winter Day

SOCB03Y History of Social Thought / W.W. Isajiw

This course will study the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. It begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Spenser, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered.

Prerequisite: One course in Sociology

Session: Winter Day, Winter Evening

SOCB04Y Political Sociology

Specific topics include a review of social and political theories; major political ideologies; political development and emergence of modern nation-state; political action (political 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

SOCB05Y Urban Sociology

Specific topics include a review of theories of urban genesis and urban form, interrelationship of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, unemployment etc.), urban social net-works (ethnic and cultural heterogeneity, neighbourhood, community and other voluntary associations).

Prerequisites: One course in Sociology

Session: Winter Day, Summer Evening

SOCB06F Social Statistics / S. Ungar

Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. The course will consider elementary statistics which includes summarizing data, the logic of statistical decision-making and a number of common statistical tests. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises. This course is intended to supplement SOCB01.

Exclusion: PSYB07

Prerequisites: One course in Sociology

Corequisite: SOCB01

Session: Winter Day, Summer Day

SOCB08F Sociology of the Family as a Group / R. James

The sociological study of the family in contemporary western society. This course will focus on the family as a small group, emphasizing the family life cycle, member roles, interaction, patterns and interpersonal problems in the family relationships.

Exclusion: SOCB12Y

Prerequisite: SOCA01

Session: Winter Day, Winter Evening

SOCB09S Sociology of the Family as an Institution

This course will examine the family in its community, institutional and historical setting, emphasizing the various social factors which will affect family life and its changing nature.

Exclusion: SOCB12

Prerequisite: SOCA01

Session: Winter Day

SOCB10Y Social Class and Social Stratification

Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems, social classes and associated behaviour; social mobility; and class conflict.

Prerequisite: One course in Sociology

Session: Winter Day, Summer Day

SOCB11Y Sociology of Science / M. Hammond

This course will study the relationship between science and society. In the first term, the effects of different social structures on the development of science and scientific ideas will be analyzed in a number of historical contexts. During the second term, the effects of science on contemporary societies will be studied, with particular attention given to the Canadian situation. For instance, we will consider from a sociological perspective such topics as nuclear energy and genetic engineering. This course will be of interest to students of both the natural and social sciences.

Session: Winter Day

SOCB13Y Canadian Society / J.-L. deLannoy

An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of energy resources, the future of Quebec and the question of a distinctive national identity.

Prerequisite: One course in Sociology

Session: Winter Day, Winter Evening

SOCB15Y Sociology of Mass Media and Communications / J. Hannigan

The study of the social organization of the mass media - radio, TV, newspapers, magazines and trade publications - and study of effects of contents of mass communications on the general public.

Exclusion: SOCC14

Prerequisite: SOCA01

Session: Winter Day

SOCB16Y Social Change / J.-L. deLannoy

A sociological analysis of forms of change, such as industrialization, modernization, urbanization and their consequences for the structure and function of contemporary society.

Prerequisite: One course in Sociology

Session: Winter Day

SOCB17S Medical Sociology / M. Hammond

Designed to meet the needs of natural science students as well as social sciences students, this course focuses on social factors in sickness and health, on the organization of health care services, and on alternatives to conventional medical care.

Session: Winter Day

SOCB18Y Sociology of Deviant Behaviour / R.L. Beals

Topics covered will include the analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as, crimes against persons, "victimless crimes"; mental illness, sexual deviation and alcoholism.

Prerequisite: One course in Sociology

Session: Winter Day

SOCB19Y Sociobiology / N. Howell

This course will investigate the linkages between sociology and the sciences of biological evolution. It begins with an introduction to the basic principles of evolution in the natural sciences and a review of attempts by late nineteenth and early twentieth century 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

SOCB20Y Ethnic and Race Relations / W.W. Isajiw

The course is concerned with 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 course in Sociology

Session: Winter Day

SOCB23Y Population / N. Howell

Population problems and processes in the modern world, stressing recent trends and their economic and social implications. Students will acquire skills in the construction and interpretation of life tables, population projections and computer simulations of populations. These tools will be used to build an understanding of the Canadian population in historical and comparative perspective.

Prerequisite: One course in Sociology or JCSB27

Session: Winter Day

SOCB24F Sociology of Education: Primary and Secondary Levels / J.A. Lee

The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. Also treats formal organization of school systems.

Exclusion: (SOCC08)

Prerequisite: SOCA01

Session: Winter Day

SOCB25S Sociology of Education: University and Adult Levels / J.A. Lee

Allocation and training of upper-level students, and relationships of higher education to the occupational system.

Exclusion: SOCC08

Prerequisite: SOCA01

Session: Winter Day

SOCC03F Collective Behaviour / R. O'Toole

The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Session: Summer Day

SOCC04S Social Movements / S. Ungar

The instructor will develop 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.

Prerequisites: Two courses in Sociology, including a B-level course.

Session: Winter Evening

SOCC06F Applied Sociology

Use of sociological theory and methodology to clarify policy issues in organizations. Evaluation of agency services, assessment of community need or demand for services, analysis of unanticipated consequences.

Prerequisites: Two courses in sociology

Session: Winter Day

SOCC07S Sociology of Occupations and Professions

Within the context of the relevant sociological theories of Durkheim, Weber and Marx, the relationship of people to their work and their occupation is studied through the examination of particular occupations in industry, bureaucracy and the professions. Career choice and patterns, questions of satisfaction and alienation, and future changes and trends are analysed with special reference to the Canadian labor force.

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Session: Winter Day

SOCC11S Sociology of Law and Law Enforcement

Studies of existing legal systems, the process of creation of legislation, court interpretation of law, and the law enforcement institutions.

Prerequisite: SOCB18

Session: Winter Day

SOCC12F Mathematical Methods in Sociology and the Behavioural Sciences / A. Rapoport

This course has two aims: (1) to explain the use of mathematical tools adapted to research in the behavioural sciences (Sociology, Psychology, Economics, Political Science and Anthropology); and (2) to illustrate the use of each tool by examples from literature in those disciplines. The survey of literature will be critical, emphasizing the limitations as well as the power and potentialities of mathematical methods in the behavioural sciences. Acquaintance with the calculus, linear algebra, probability and statistics desirable, though not formally required.

Prerequisites: Permission of Instructor

Session: Winter Day

SOCC13F Industrial Sociology / J. Hannigan

Comparative studies of industrial organization, considering scale, division of labour, organization of work teams, levels and forms of organization.

Prerequisite: One B-level course in Sociology (JCSB27 recommended)

Session: Winter Day

SOCC16F Sociology of Conflict / A. Rapoport

Theories and methods of analysis of conflict, from games to war. Game theory will be used as a logical framework for assessing the gains and losses of various strategies. Some facility with mathematics will be assumed.

Session: Winter Day

SOCC17S Social Change in the Third World / J-L. deLannoy

Sociological studies of stratification, politics, religion, education, and kinship organization in countries of Africa, Asia, Latin America.

Prerequisites: Two courses in Sociology, one of which must be a B-level. (SOCB14 and SOCB16 recommended.)

Session: Winter Day

SOCC18Y Sociology of Art and Culture / M. Hammond

A seminar on the organization, production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose any form of "high culture" for special research.

Exclusions: SOCC09 and SOCC18F/S

Prerequisites: Two courses in Sociology.

Session: Winter Day

SOCC19F Sociology of Knowledge / R. O'Toole

The sociology of knowledge as a social process.

Exclusion: SOCB22

Prerequisite: SOCB03

Session: Winter Evening

SOCC20Y Sociology of Religion / R. O'Toole

A sociological analysis of religion as a social institution. Consideration of the problem of a definition of the phenomenon; analysis of major theoretical and empirical contributions to the field; and investigation of the forms of religion in historical and contemporary contexts.

Exclusion: SOCC20F/S.

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Session: Winter Day

SOCC24F Changing Family Life in Canada

Examination of the major changes in the structure of the family in Canada, and its consequences for family life.

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Session: Winter Day

SOCC25S Comparative Race Relations

The purpose of this course is to obtain a critical understanding of "race" as a form of social inequality governing intergroup relations in different societies. Special emphasis will be placed on Canada, the United States, South Africa and Latin America.

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Session: Winter Day

SOCC27F Social Class in Canadian Society

Specialized study of social class phenomena in contemporary Canadian Society, bringing to bear both current theory and research.

Prerequisites: Two courses in Sociology

Session: Winter Day

SOCC40F/S Supervised Independent Research / Staff

Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.

Prerequisites: Completion of 15 courses including SOCB01, SOCB03 and SOCB06. By permission of instructor only.

Session: Winter Day

SOCC41F/S Supervised Independent Research / Staff

Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report.

Prerequisites: Completion of fifteen courses including SOCB03, SOCB01 and SOCB06. By permission of instructor only.

Session: Winter Day

SOCC42F/S Advanced Seminar in Sociological Theory / Co-ordinator: R. O'Toole, Staff
 Advanced Seminar in Sociological Theory. Special topics in contemporary social theory, designed as a final year course for sociology majors.
Prerequisites: SOCB03, SOCB01, and SOCB06
Session: Winter Day

SOCC43F/S Advanced Seminar in Research Methods / Co-ordinator: N. Howell, Staff
 Special topics in methodologies used in contemporary sociological research. Designed as a final year course for sociology majors.
Prerequisites: SOCB03, SOCB01 and SOCB06
Session: Winter Day

COURSES NOT OFFERED in 1979-80

SOCB07Y Small Groups
Prerequisites: Two courses in Sociology, one of which must be a B-level course.

SOCB14Y Comparative Social Structure
Prerequisite: One course in Sociology

SOCC01F/S Sociology of Revolution
Prerequisites: Two courses in Sociology (SOCC14 and SOCB16 recommended.)

SOCC02F/S Research on Small Groups
Prerequisites: SOCB01 or (SOCC01) or SOCB07 or PSYB10 or permission of instructor

SOCC05Y Contemporary Social Theory
Prerequisite: SOCB03

SOCC21Y Sociology of Crime and Delinquency
Exclusions: SOCC21F/S and SOCC23F/S
Prerequisite: SOCB18Y

SOCC22F/S Qualitative Methods in Social Research
Prerequisites: SOCB01 and SOCB06

SOCC26S Urban Growth and Planning
Prerequisite: SOCB05

SOCC28F Sociology of Aging
Prerequisite: SOCB12

SOCC29F Variant Family Forms
Prerequisite: SOCB12

SPANISH

Discipline Representative: J.I. Chicoy-Dabán

Students enrolling in Spanish, are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature.

Students who do not intend to major in Spanish are free to choose whichever courses they wish, provided that they have satisfied the relevant prerequisites. Students intending to major will find the requirements for programmes in Spanish and in Modern Languages and Literatures in the Major Programmes section of the *College Calendar*.

Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may also prove valuable to the student as adjuncts to his plan of study or as an enrichment of his total programme.

All 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, are invited to confer with their instructors at the earliest possible date in order to work out an appropriate and coherent programme.

Major Programme in Spanish

Supervisor of Studies: J.I. Chicoy-Dabán

Nine full-course equivalents required:

1. A01Y/A* Introductory language
 B01Y/B Intermediate language
 C01Y Advanced language
 B04F Phonetics
 B12S History of Language
2. B03S Pre-literary Examination of Texts
 HUMB15Y The Civilization of Spain
 or
 B38Y Culture and Civilization of Latin America
 B18Y Spanish Literature to 1700
 B19Y Spanish Literature from 1700 to Present
3. One half-course from each of the following areas:
 - a) Medieval Literature: B35F/S, B36F/S
 - b) Golden Age Literature: B24F/S, B25F/S, B26F/S, B37F/S
 - c) Modern Literature (Peninsular and/or Latin American): B13F/S, B17F/S, B27F/S, B29F/S, B30F/S, B33F/S, HUMB55Y
4. One further full-course equivalent in Spanish.

Information on the sequence and scheduling of these courses may be obtained from the Supervisor of Studies or from other members of the faculty in Spanish.

*Does not count towards nine-course requirement.

Major Programme in Modern Languages and Literature: Spanish

Supervisor of Studies: J.I. Chicoy-Dabán

Seven full-course equivalents required:

1. A01Y/A* Introductory language
 B01Y/B Intermediate language
 C01Y Advanced language
 B04F Phonetics
 B12S History of the Language
2. B03S Pre-literary Examination of Texts
 HUMB15Y Civilization of Spain
 or
 B38Y Culture and Civilization of Latin America
 B18Y Spanish Literature to 1700
 or
 B19Y Spanish Literature from 1700 to the Present
3. One half-course from each of the following:
 - a) Medieval Literature: B35F/S, B36F/S
 - b) Golden Age Literature: B24F/S, B25F/S, B26F/S, B37F/S
 - c) Modern Literature (Peninsular and/or Latin American): B13F/S, B17F/S, B27F/S, B29F/S, B30F/S, B33F/S, HUMB55Y.

*Does not count towards seven-course requirement.

Information on the sequence and scheduling of these courses may be obtained from the Supervisor of Studies or from other members of the faculty in Spanish.

SPAA01A Introductory Spanish / K. Godde-Nijhowne

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

This is an intensive course worth one full credit. It covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading, and conversation. Regular class attendance and participation is essential. There will be six lecture hours of exercises and drills based on the grammar textbook, plus one hour conversation class for supplementary oral drills. Five tests which will account for 50% of the final mark and five written or oral assignments equally worth 50% of the final mark.

Exclusion: Grade 13 Spanish

Session: Winter Evening (Fall Term)

SPAA01Y: Introductory Spanish / R. Barta

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading and conversation. Regular class attendance and participation is essential. Evaluation is based on class participation, written assignments, and tests.

Exclusion: Grade 13 Spanish.

Session: Winter Day

SPAA01Y: Introductory Spanish / R. Skyrme

A course in basic grammar and syntax, with instruction in spoken and written Spanish.

This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading, and conversation. Regular class attendance and participation is essential. Evaluation is based on class participation, written assignments, and tests.

Exclusion: Grade 13 Spanish

Session: Winter Day

SPAB01B Intermediate Spanish / K. Godde-Nijhowne

Review of grammar and syntax. Language practice, through conversation in class, tutorial practice, dramatization, reading aloud and oral presentation. Vocabulary acquisition, through drills on idiomatic expressions, translation of both prose and poetry, and composition.

Note: that this is an intensive course that will meet twice a week for three hours per evening. In addition there will be tutorial and practice hours to be arranged with students. This course will count for a full credit.

Exclusion: SPAB02

Prerequisite: Grade 13 Spanish or SPAA01

Session: Spring Evening

SPAB01Y Intermediate Spanish / J.I. Chicoy-Dabán

Review of grammar and syntax: composition, translation and oral practice.

The compositions and translations will be done as homework as well as work in the classroom. One hour per week will be spent in oral practice. The final mark will be comprised of: a) a final examination (40%); b) compositions (20%); c) translations (20%); d) oral practice (20%). Course required for Spanish majors, but open to all qualified students.

Exclusion: SPAB02

Prerequisite: Grade 13 Spanish or SPAA01

Session: Winter Day

SPAB03S Pre-Literary Examination of Texts / R. Barta

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. A further tutorial hour to be arranged. Regular attendance and class participation are essential.

Regular oral and written commentaries on assigned texts. Written term tests.

N.B. 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

SPAB04F Phonetics / R. Skyrme

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. This course is required for Spanish majors but open to all qualified students.

Corequisite: SPAA01

Session: Winter Day

SPAB12S History of the Spanish Language / R. Skyrme

The languages of Spain, from pre-Roman times to the present.

The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romance languages. A survey of the Pre-Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in non-Classical texts (inscriptions, glosses, etc.). The main segment of the course deals with the evolution of the sound- and form-systems of Latin into Peninsular Romance, focussing on the growth of the Castilian dialect. Illustrative texts will be analyzed and class participation and discussion are encouraged. This course is required for Spanish majors but open to all qualified students.

Prerequisite: SPAB04

Session: Winter Day

SPAB17F The Nineteenth-Century Spanish Novel / R. Skyrme

The evolution of the Spanish novel in the Nineteenth Century will be traced through reading and discussion of the work of representative exponents of *Costumbrismo*, Regionalism, Realism, and Naturalism.

A sampling of prose-writing in the Romantic period will lead to an investigation of the gradual emergence of the nineteenth-century Spanish novel as a mature literary form, and in particular to the problem of the late rebirth of the realist novel with Galdos. Following reading and discussion of costumbrista and regional novels, attention will be focussed on the theory and practice of realism and naturalism in Spain against the background of their counterparts outside the Peninsula. This course is an option for the major programme and open to all qualified students.

Prerequisite: SPAA01

Session: Winter Day

SPAB18Y Survey of Spanish Literature I / R. Barta

Reading, analysis and discussion of Peninsular Spanish literature from the twelfth to the seventeenth centuries, with the object of acquainting the student with the major literary movements of each period, the authors and their works.

Lectures on background material. Areas of study will include the Medieval lyric, epic and 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.

Regular oral and written assignments, and one paper.

Exclusion: (SPAB11)

Prerequisite: SPAA01

Session: Winter Day

SPAB19Y Survey of Spanish Literature II

From the eighteenth century to the present. Reading, analysis and discussion of major texts of Peninsular Spanish literature of the period. A continuation of SPAB18Y.

Prerequisite: SPAA01

SPAB24F Golden Age Drama / J.I. Chicoy-Dabán

The Drama of the Spanish Golden Age, 16th and 17th Centuries.

Emphasis will be placed on the literary analysis of the plays. Video tapes of professional productions in Spanish, made by the Spanish National Television will be shown.

Spanish specialists will be expected to read the plays in the original text. Non-specialists may read the texts in translation.

Exclusion: SPAB23Y

Prerequisite: SPAB01 for those majoring in Spanish. None for others.

Corequisite: SPAB03 for those majoring in Spanish. None for others.

Session: Winter Day

SPAB25F Golden Age Prose

The development of Spanish prose writing in the Golden Age.

Prerequisite: SPAB03

SPAB27S **The Poetry and Theatre of Garcia Lorca** / *Information will be available at a later date in Room H332A.*

The following major aspects will be examined: (a) Lorca's early poems; (b) the *Romancero Gitano*; (c) poetic comedies and tragedies; (d) short plays and farces.

Assignments and evaluation will be discussed at the first meeting.

Prerequisite: SPAB03

Session: Winter Day

SPAB29F Spanish American Literature: The Short Story

Short story: history of the Spanish *cuento*; examination of short stories by Spanish and European authors in order to attempt a definition of the short story; reading, analysis and discussion of the various forms of the Spanish American short story.

Prerequisite: SPAA01

SPAB36F Medieval Poetry

Reading, analysis and discussion of major texts in poetry from the twelfth to the fifteenth centuries in Spain.

Prerequisite: SPAB03 or (SPA003)

SPAB38Y **Topics in Latin American Culture and Literature**

This course will attempt to provide students with a basic understanding of Latin American culture and literature.

Exclusions: HUMB61, SPAB10

Prerequisite: SPAA01

SPAC01Y **Advanced Spanish** / *J.I. Chicoy-Dabán*

Intensive study of grammar and syntax; translation, composition, and oral practice.

Detailed examination of the subtleties of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. The final mark will be comprised of: 40% for a final examination; and 60% for compositions, translations, and conversation. Course required for Spanish majors, but open to all qualified students.

Exclusion: SPAB20

Prerequisite: SPAB01

Session: Winter Day

SPAC02F-C06F

CO7S-C10S

C11Y **Supervised Reading** / *R. Barta, J.I. Chicoy-Dabán, P. Leon, R. Skyrme*

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 of study. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two hour period (the exact arrangements will depend on the nature of the text and the level of ability of the students).

Specific topics in Peninsular Spanish and Latin American Literature, Linguistics and Culture.

Prerequisites: SPAB03; one course in Spanish Literature - (SPAB13 to SPAB37)

Session: Winter Day

See also the following courses offered under Humanities:

HUMB15Y (The Civilization of Spain).

HUMB45S (The Spanish Civil War: Fact to Fiction)

COURSES NOT OFFERED in 1979-80

SPAB13F **Romanticism**

Prerequisite: SPAA01

SPAB19Y **Survey of Spanish Literature II**

Prerequisite: SPAA01

SPAB21F/S **Stylistics and Translation**

Prerequisite: SPAB03

SPAB25F **Golden Age Prose**

Prerequisite: SPAB03

SPAB26S **Golden Age Poetry**

Prerequisite: SPAB02

Corequisite: SPAB03

SPAB29F **Spanish American Literature: The Short Story**

Prerequisite: SPAA01

SPAB30F/S **The Novel of the Mexican Revolution**

Prerequisite: SPAA01

SPAB33F/S **Spanish American Poetry 1880-1920**

Exclusion: HUMB15

Prerequisite: SPAB03

SPAB35F/S **Medieval Literature: Prose**

Exclusion: SPAB22

Prerequisite: SPAB03

SPAB36F **Medieval Poetry**

Prerequisite: SPAB03

SPAB37S **The Literature of the Spanish Mystics**

Corequisite: SPAB03

SPAB38Y **Topics in Latin American Culture and Literature**

Exclusions: HUMB61, SPAB10

Prerequisite: SPAA01

Additional Courses Offered

DRAB02Y The Directors' Theatre/L.L. Browne

Time: TR10

The course will explore the work of famous theatrical companies of the Nineteenth and Twentieth centuries and the contribution to theatre made by, among others, Antoine, Stanislavsky, Craig, Belasco, Copeau, Reinhardt, Brecht, Barrault, Brook, Littlewood, and Grotowski.

The study of the theoretical statements and practical work of directors from 1860-1960, including such personalities as the Duke of Saxe-Meiningen, Andre Antoine, Constantin Stanislavsky, Gordon Craig, David Belasco, Jacques Copeau, Max Reinhardt, Bertolt Brecht, Jean-Louis Barrault, Peter Brook and Jerzy Grotowski.

There will be two 1-hour classes weekly which will include lectures as well as seminars, and extensive use of visual materials. Students will prepare individual projects related to the work of specific directors and theatres.

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

The evaluation will be essays and class tests.

ECOC08S

Econometrics/A.P. Simmie, W. Milne

Time: MWF9

A detailed examination of the issues relevant for policy evaluation and corporate planning in building, estimating and evaluating statistical models in economics. This course will apply the theory of linear statistical models and simultaneous equation estimation covered in EC0B12S to problems such as energy demand forecasting, the modelling of supply-demand equilibria in markets, measuring the impact of government regulatory policies and the use of large scale regional or national econometric models.

Prerequisites: EC0B12, EC0B03, EC0B07, MATA22 or MATA26 or MATA55

Corequisites: EC0C13 or EC0C14 or permission of instructor

Session: Winter Day

ENCB25F

The Canadian Short Story/Russel Brown

Time: T1-3

A study of the best contemporary short stories written by Canadian authors. The course will emphasize the short fiction of Margaret Atwood, Margaret Laurence, Malcolm Lowry, 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 anthologies. 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, Malcolm Lowry, Hear Us O Lord from Heaven Thy Dwelling Place, 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.

Session: Winter Day

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41F should be replaced

B-level courses in

SOC28F

Sociology of Aging/R.J.J. James

Time: W7-10E

An examination of the latter stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children, the significance of retirement, problems of adjustment to aging, the place of the aged person in the modern family, and bereavement.

Prerequisite: SOC12

Session: Winter Evening

Changes in Term

ANTB16 from 'S' to 'F'
ANTB37 from 'S' to 'F'
ANTB38 from 'F' to 'S'
BIOC14 from 'S' to 'F'
SPAB24 from 'F' to 'S'

Additional Sections Offered

ECOB03Y L03	W7F4	ENGB11Y	T3001 M5E	HUMB28Y	T3001 TBA
ECOB66S L30	W7-9		T3002 M6E		T3002 TBA
ENGB07Y T0001 W1			T3003 M9E	PHYA02Y	T0001 T1
	T0002 W4		T3004 M9E		T0002 T2
	T0003 W5	FREA01Y	L04 MWF3		T0003 T3
	T0004 W4	HISB04Y	T0004 TBA		T0004 T4

Cancelled Courses

ANTB01F LINB27F
ANTB31Y NSCA01Y
GRB16Y SOCC04S
GRB23Y SOCC19F
GRC21F PSYC60F

Cancelled Lecture Sections and Tutorials

SOCB13Y L30 only
SOCB08F L30 only
HISB03Y T0005

Renumbered Courses

HISB12Y renumbered to HISC12Y

Prerequisites: HISA01Y and a B-level course

Title and Course Description Change

HISB16Y Modern France 1789 to the Present/L.J. Abray
Explores the transition from agricultural monarchy to industrial republic by examining the revolutionary tradition, the persistence of social conflict, the French sense of world mission, cultural history, the present stalemate between Left and Right, parallels and contrasts to the Canadian experiences of nationalism, regionalism, and modernization.

The course will consist of lectures and tutorials and evaluation will be based on 2 term papers, tutorial participation and a final examination.

Prerequisite: HISA01Y

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Modern Greek

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on of instructor.

IMPORTANT INSERT

On Page 143 of the Calendar please add to the last course description under Linguistics:

LINC21Y Structure of a Language/J.D.Woods

The entry should now read as follows:

LINC21Y Structure of a Language/J.D.Woods

This course puts linguistic theory to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.

The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year. Evaluation is based on class participation and the quality of each member's contribution to the grammar; exact proportions of these components in the final grade will be determined later.

Exclusion: LINB10

Pre-or Corequisite: LINB02, LINB11

Session: Winter Day

Please note that the course description for LINC21Y is not part of the course entry for LINC05Y.

Division of Social Sciences

Political Sciences B65Y (Political Behaviour)

This course, listed as not offered in the 1979-80 Calendar, will now be offered in the day session. The following information may be of some assistance to you in course selection.

POLB65Y Political Behaviour

Exclusion: (POLB30Y)

Course Description: An introduction to the analysis of Political Behaviour.
This course will examine the empirical and theoretical efforts of political scientists to discern the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology.

Instructor: J. Fletcher

Session: Winter Day (Wednesday, 9 to 11)

Teaching Method: Lectures and discussion.

Rita

June 21, 1979.

TO: Registrar's Office, Student Services Office

FROM: Linda Pearson

Re: first set of timetable changes since
the first corrigenda

Courses Cancelled: GGRB16Y
GGRB23Y
GGRC21F
LINB27F
NSCA01Y

Courses Added: GGRC05F-- Theory and Method in Modern Quantitative Geomorphology
M3-5
GGRC04S-- Urbanization in Southern Ontario
W2-4

Timetable Changes:

GGRB13Y F10-1
ANTB22Y T0001 T2
GRHB03Y is a winter evening course
POLB65Y W9-11
ECOB21S W3-5
PSYB07F M1T2R11F1
PSYB08S M1T2F10

Add Tutorials for PHYA02Y T0001 T1
T0002 T2
T0003 T3
T0004 T4

GGRC26Y prerequisites should read any two B-level courses in Social Sciences

Linda

TIMETABLE

Key

Explanation of Suffixes, Y, A, B, F, S and H

- 'Y' A course taught throughout the session worth one full course credit.
- 'A' A course taught in the first term and worth one full course credit.
- 'B' A course taught in the second term and worth one full course credit.
- 'F' A course taught in the first term and worth one-half course credit.
- 'S' A course taught in the second term and worth one-half course credit.
- 'H' A course taught throughout the session and worth one-half course credit.

Explanation of M, T, W, R, F and T.B.A.

M, T, W, R, F - the days of the week with R denoting Thursday.

T.B.A. - denotes that the student is responsible for arranging time and/or room with the instructor for that course.

Explanation of Letters

- L - Lectures
- P - practical work in laboratories or studios (* denotes every other week)
- T - tutorials
- E - evening

Explanation of Lecture Section Numbers

- 01 etc. day sections
- 30 etc. evening sections

Tying of sections

Some lecture, practical and tutorial sections must be taken as a 'package'. This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g. P0101 and T0102 must be taken with L01; and T3001 or T3002 must be taken with L30.

The reason for 'tying' sections is that the subject matter may differ from section to section. Many courses are 'untied' so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be 00, eg. P0001 or P0002 and T0001 or T0002 may be taken with L01 or L02 or L03.

Rooms

Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.

Summer session courses, 1979

Monday 14th May: Classes for 'F' 'H' 'A' and 'Y' courses begin

Thursday 28th June: Classes for 'A' and 'F' courses end

Tuesday 3rd July: Classes for 'B' and 'S' courses begin

Friday 17th August: Classes for 'Y' 'B' 'H' and 'S' courses end

Key: MTWRF: days of the week with R as Thursday

Course No.	Course Title	Day and Time
ANTB14Y	Human Evolution	T&R 7-10E
ANTB52B	Field Methods in Historical Archaeology	M to F 11-1
ANTC12F	Research on the Social Behaviour of Non-human Primates	M to F 10
BIOB39B	Biogeography	M to F 9-11
CHMC45Y	Library Thesis	TBA
CHMC46Y	Introduction to Research	TBA
CHMC47H	Library Thesis	TBA
COMA01Y	Financial Accounting	T&R 7-10E
COMB01Y	Management Accounting	T&R 7-10E
CSCA56H	Computer Programming	M 7-9E W 7-9E T3001

ECOA01Y	Introduction to Economics	M&W 7-10E
ECOB01F	Price Theory I	T&R 1-4
ECOB02S	Price Theory II	T&R 1-4
ECOB05F	National Income & The National Economy	T&R 10-12
ECOB06S	Macroeconomic Policy	T&R 10-12
ECOB35F	Public Decision Making	MWF 10-12
ECOC11F	Supervised Reading	TBA day TBA evening
ENGB02Y	Chaucer	M&W 6:30-9:30E
FREB36S	French-Canadian Novel to 1945	T&R 1-3
GGRB06Y	The Geography of Economic Activities	M to F 9-11
GGRC14F	Settlement of Upper Canada	M&W 7-10E
GGRC15A	Soil Management & Conservation	M to F 1-3
HISB15Y	Aspects of European Social History 1789-1918	M&W 6:30-9:30E
LINB15F	Developmental Psycholinguistics	M&W 6:30-9:30E
MATA25S	Thinking Mathematically	M&W 7-10E
MATA26Y	Calculus with Linear Algebra	T&R 7-10E
MATB41H	Techniques of the Calculus of Several Variables I	T&R 7-10E
PHLB16F	Philosophy of History	T&R 6:30-9:30E
PHLB61S	Philosophy of Religion	T&R 6:30-9:30E
POLA01B	Introduction to Political Studies	M to F 1-3
POLC60S	Administrative Politics	T&R 7-10E
POLC61S	Policy Development	M&W 7-10E
PSYA01Y	Introduction to Psychology	M&W 7-10E
PSYB09S	General Experimental Psychology	T&R 9-11
PSYB10S	Introduction to Social Psychology	WF 1-4 P0001 T&R 1-3 T 3 T0001 R 3 T0002
PSYB45F	Behaviour Modification: Origins & Applications	MWF 10-12
PSYB65F	Biological Foundations of Behaviour	M&W 7-10E
PSYC53F	Current Topics in Human Information Processing: Music Cognition	T&R 7-10E
SOCA01B	Introduction to Sociology	M to F 9-11
SOCB01Y	Methods in Social Research	T&R 7-10E
SOCB06F	Social Statistics	M&W 7-10E
SOCB10B	Social Class and Social Stratification	M to F 1-3
SOCB03F	Collective Behaviour	M 11-1, W 11-2

Winter Session Evening Courses

Tutorials may be given in addition to the lecture times given below. They will normally be given on the same night except as noted below.

Course No.	Title	Day & Time
ANTA01Y	Introduction to Anthropology	T7-10
ANTB24Y	The Organization of Group Cultures	W7-10
ANTB26Y	Introduction to Prehistoric Archaeology	M7-10
BIOC16S	Marine Biology	W6-8 TBA T3001
COMA01Y	Financial Accounting	T7-10
COMB01Y	Management Accounting	R7-10
COMC15Y	Income Tax	W7-10
CSCA56F	Computer Programming	M7-9 W7-9 T3001 W7-9 T3002
ECOA01Y	Introduction to Economics	W7-10
ECOB03Y	Price Theory	M7-10
ECOB07Y	Macroeconomic Theory and Policy	W7-10

ENGA08Y	Forms of Twentieth-Century Literature	W7-10
ENGB11Y	Varieties of Drama	M7-10
ENGB27Y	Canadian Fiction in English	W7-10
FARA03Y	Aspects of Western Culture from the Renaissance to Modern Times	R7-9
FARA70F	Two and Three Dimensional Design	W7-10
FARA71S	Colour	W7-10
FARB32F	Studies in the High Renaissance-Michaelangelo	M7-9
FARB61Y	The Canadian Landscape	T7-9
FREA01Y	Preparation for University French Studies	W6-9
		TBA P3001
FREB24Y	French Thought and Literature In the Age of Enlightenment(1715-1789)	W6:30-8:30
GGRB17Y	Rural Geography	T7-9
GGRB18Y	Hydrology and Water Resources	M7-10
GGRC21F	Economic Aspects of Water Resource Management	W7-10
GRHB03Y	Roman History From the Gracchi to Nero	T7-10
HISA01Y	The European World: An Introduction to History	T7-9
		T5 T3001
		T6 T3002
		T9E T3003
HISB04Y	Introduction to Canadian History	M7-9
		M5 T3001
		M6 T3002
		M9E T3003
		T7-9
HISB45Y	The Prairie Provinces 1850-1950	W7-9
HISC41F	Old Huronia	W7-9
HISC42S	Church and State Relations in Canada	W7-9
HISC78Y	The Russian Intelligentsia	R7-9
HUMB28Y	Major Religious Traditions, East and West	R7-9
HUMB35F	'The Ulysses Factor'	T7-9
HUMB37F	Atlantis	T7-9
HUMB61S	Women in Ancient Greece	T7-9
HUMB71F	Italian Cinema	W6-10
JCEB54S	Industrial Relations	W7-10
JCSB27Y	Organizational Behaviour	T7-10
LINA04S	Introduction to Language	W7-10
LINB07Y	Sociolinguistics	T7-9
PHLA01Y	Fundamental Questions of Philosophy	W7-10
PHLB03F	Philosophy and Art	M6:30-9:30
PHLB11S	Philosophy of Law	M7-10
POLB60Y	Public Administration	M7-10
POLB71Y	Political Thought of the Eighteenth and Nineteenth Centuries	M7-10
POLB88Y	Urban Politics	R7-10
POLB94Y	Politics and Government in South Asia	T7-10
POLC51S	Topics in Canadian Government	W7-10
POLC65F	Topics in Political Leadership	W7-10
PSYA01Y	Introduction to Psychology	W7-10
		T7-9 P3001
		W5-7 P3002
PSYB10F	Introduction to Social Psychology	T7-9
		M3 T3001
		T10 T3002
		W4 T3003
		R2 T3004
		T6E T3005
		T6E T3006
		T9E T3007
		T9E T3008

PSYB12F	Advanced Social Psychology	M7-10
PSYB32F	Abnormal Psychology	W7-10
PSYB32S	Abnormal Psychology	W7-10
PSYB45F	Behaviour Modification: Origins and Applications	R7-10
PSYB50F	Sensation and Perception	T7-10
SOCA01Y	Introduction to Sociology	M7-10
SOCB03Y	History of Social Thought	T7-10
SOCB08F	Sociology of the Family as a Group	W7-10
SOCB13Y	Canadian Society	R7-10
SOCC04S	Social Movements	T7-10
SOCC19F	Sociology of Knowledge	T7-10
SPAA01A	Introductory Spanish	T&R 7-10
SPAB01B	Intermediate Spanish	T&R 7-10

WINTER SESSION COURSES 1979-80

ANTA01Y	L01	MWF12	ANTB47F	L01	T1R1-3
	L30	T7-10	ANTB48S	L01	T1R1-3
	T0001	M2	ANTB49S	L01	M2W2-4
	T0002	M3	ANTB50F	L01	M3W3-5
	T0003	M4	ANTB44Y	L01	T9-11
	T0004	T10	ANTC03F	L01	TBA
	T0005	T11	ANTC09Y	L01	M2W2-4
	T0006	T1	ANTC11Y	L01	T4R3-5
	T0007	W9	ANTC13F	L01	TBA
	T0008	W4	ANTC14S	L01	TBA
	T0009	W4	ANTC15F	L01	M2W2-4
	T0010	F9	ANTC36Y	L01	M2W2-4
	T0011	F2			
	T0012	F3	ASTA02Y	L01	TR10
ANTA03Y	L01	MWF12		T0001	R1
ANTB01F	L01	T1R1-3	ASTA03Y	L01	TR11
ANTB02S	L01	R11-1		T0001	T2
ANTB03F	L01	T1R1-3	ASTB01Y	L01	TR11
ANTB05Y	L01	T11-1		T0001	R2
ANTB07S	L01	T1R1-3	ASTC01H	L01	TBA
ANTB11F	L01	T1R1-3			
ANTB12S	L01	T1R1-3	BIOA03Y	L01	TR9
ANTB15Y	L01	T11-1		L02	TR1
	P0001	T2-5		P0001	T10-1
ANTB16F	L01	M3W3-5		P0002	W1-4
ANTB20Y	L01	M2W2-4		P0003	R2-5
ANTB21Y	L01	MWF11		P0004	F1-4
ANTB22Y	L01	R11-1	BIOB02Y	L01	T9-11
	T0001	R10		P0001	T2-5
ANTB23Y	L01	T2-4		P0002	R9-12
ANTB24Y	L30	W7-10E	BIOB05Y	L01	WF9
ANTB26Y	L30	M7-10E		P0001	M2-5
ANTB29Y	L01	T2-4		P0002	W2-5
	P0001	T10	BIOB06Y	L01	MW2
ANTB30Y	L01	R11-1		P0001	T10-1
ANTB31Y	L01	R9-11		P0002	W10-1
ANTB37S	L01	MWF1	BIOB08Y	L01	MW12
ANTB38F	L01	MWF1		P0001	R10-1
ANTB40Y	L01	R11-1		P0002	R2-5
ANTB51Y	L01	T11-1	BIOB11Y	L01	MW1
				P0001	F10-1

BIOB12Y	L01	MW4	CHMB04S	L01	T4	CSCA56F	L02	R9-11	ECOA01Y	L01	MWF11
	P0001	M10-1		P0001	W9-4		L01	MW2		L02	MWF12
BIOB13Y	P0002	R2-5		P0002	W9-4		L30	M7-9E		L03	MWF1
	L01	MW11		P0003	R9-4		T0001	M3-5		L30	W7-10E
	P0001	T10-1		P0004	R9-4		T0002	T9-11		T0101	M12
	P0002	T2-5		T0001	F9		T0003	T2-4		T0102	M2
BIOB17Y	P0003	T6-9E	CHMB05Y	L01	MF12		T0004	F2-4		T0103	R12
	L01	MW1		P0001	T9-1		T0005	R9-11		T0201	T3
	P0001	M2-5		P0002	W9-1		T0006	R11-1		T0202	W4
	P0002	T9-12		P0003	W9-1		T0007	R3-5		T0203	R1
	P0003	T2-5		P0004	R1-5		T3001	W7-9E		T0301	M3
	P0004	W10-1		P0005	T9-1		T3002	W7-9E		T0302	R2
BIOB20F	P0005	M6-9E		P0006	W9-1	CSCA56S	L01	MW2		T0303	R3
	L01	M2F1		P0007	W9-1		T0001	T9-11		T0304	R9
BIOB22Y	P0001	R9-12	CHMC01Y	P0008	W9-1		T0002	T2-4	ECOB03Y	L01	MWF9
	L01	MW3		L01	R3-5		T0003	R9-11		L02	MWF11
	P0001	R9-12		P0001	T10-5 F		T0004	R11-1		L30	M7-10E
	P0002	R2-5		P0002	T10-5 S		T0005	F2-4	ECOB07Y	L01	MWF12
BIOB23Y	L01	R1-3	CHMC02Y	L01	W2-4	CSCA58F	L01	MW2		L02	MWF1
	P0001	W10-1		P0001	T10-5 S		T0001	M3-5		L30	W7-10E
	P0002	W2-5	CHMC03Y	L01	M12T9		T0002	T9-11	ECOB11F	L01	MWF2
BIOB27Y	L01	MW10		P0001	R9-12		T0003	R9-11		T0001	M12
	P0001	F9-12		P0002	R9-12		T0004	R11-1		T0002	W12
	P0002	F2-5		P0003	R9-12		T0005	R3-5		T0003	F12
BIOB43Y	L01	MW9		T0001	W5		T0006	M3-5	ECOB11S	L01	MWF2
	P0001	M2-5	CHMC04F	L01	F9		T0007	F11-1		T0001	M12
BIOC01Y	L01	TBA		P0001	M9-4	CSCA66S	L01	MW2		T0002	W12
BIOC02Y	L01	TBA		P0002	M9-4		T0001	M3-5		T0003	F12
BIOC11Y	L01	M9-11		P0003	F10-5		T0002	F2-4	ECOB12S	L01	MWF1
	P0001	F1-5		P0004	F10-5		T0003	R9-11		T0001	F12
BIOC12H	L01	M11		T0001	R12		T0004	F11-1		T0002	F2
	P0001	TBA	CHMC45Y	L01	TBA		T0005	R10-12	ECOB20F	L01	MW12
BIOC14F	L01	MW1	CHMC46Y	L01	TBA	CSCA68S	L01	MW2	ECOB21S	L01	MW12
	P0001	W6-9E	CHMC47F	L01	TBA		T0001	M3-5	ECOB31S	L01	MW9
BIOC16S	L30	W6-8E	CHMC47H	L01	TBA		T0002	T9-11	ECOB32F	L01	MW9
	T3001	TBA	CHMC47S	L01	TBA		T0003	R9-11	ECOB41F	L01	MW11
CHMA02Y	L01	MW9	CHMC48S	L01	TBA		T0004	R11-1	ECOB45F	L01	MW12
	L02	MW11	CHMC49H	L01	TBA		T0005	R3-5	ECOB47S	L01	MW11
	P0001	M1-5	CHMC49S	L01	TBA		T0006	F2-4	ECOB51S	L01	MW12
	P0002	M1-5	CHMC50S	L01	TBA	CSCB28S	L01	M4F2-4	ECOB61S	L01	MW1
	P0003	M1-5				CSCB68F	L01	M4F2-4	ECOB62F	L01	MW1
	P0004	T1-5	CLAB01Y	L01	MW11	CSCB73F	L01	M9W9-11	ECOB66F	L01	M3W4
	P0005	T1-5	CLAB02Y	L01	M2W2-4	CSCC34F	L01	M1W12-2	ECOB68S	L01	M3W4
	P0006	W1-5	CLAB23F	L01	M2W2	CSCC44F	L01	M4F2-4	ECOB81Y	L01	WF10
	P0007	W1-5				CSCC48S	L01	M1W12-2	ECOB82Y	L01	MW10
	P0008	F12-4	COMA01Y	L01	T9-11				ECOC05S	L01	W2-4
	P0009	F12-4		L02	T11-1	DRAB01Y	L01	MWF12-2	ECOC07F	L01	W2-4
	P0010	M1-5		L03	T2-4	DRAB03Y	L01	MW10	ECOC13F	L01	M3-5
	P0011	M1-5		L04	R9-11	DRAC01Y	L01	T1R1-3	ECOC14S	L01	M3-5
	P0012	M1-5		L05	R11-1	DRAC10Y	L01	TBA	ECOC15F	L01	M3-5
	P0013	T1-5		L06	F2-4	DRAC11Y	L01	TBA	ECOC16S	L01	M3-5
	P0014	T1-5	COMB01Y	L30	T7-10E	DRAC12Y	L01	TBA	ECOC21F	L01	F2-4
	P0015	W1-5		L01	MWF11	DRAC14Y	L01	TBA	ECOC22S	L01	F2-4
	P0016	W1-5		L02	T4R3-5	DRAC20Y	L01	TBA	ECOC23F	L01	W2-4
	P0017	F12-4		L03	R9-11	DRAC21Y	101	TBA	ECOC24S	L01	W2-4
	P0018	F12-4	COMC01Y	L30	R7-10E	DRAC22Y	L01	TBA			
CHMB01Y	L01	M2F2	COMC03Y	L01	M2W2-4	DRAC23Y	L01	TBA	ENGA04Y	L01	MWF10
	T0001	W4	COMC15Y	L01	R3-5	DRAC24Y	L01	TBA		L02	MWF10
CHMB03Y	L01	M3-5W3	COMC30Y	L30	W7-10E					L03	MWF11
				L01	T9-11					L04	MWF11
										L05	MWF1

ENGA08Y	L01	MWF11	FARB90F	L01	TBA
	L02	MWF11	FARB91S	I01	TBA
	L03	MWF1	FARC01F	L01	MWF1
	L04	MWF1	FARC02F	L01	TBA
	L05	MWF9	FARC03S	L01	TBA
	L30	W7-10E	FARC04Y	L01	TBA
ENGB01Y	L01	M12-2F12	FARC21Y	L01	TBA
ENGB04Y	L01	MWF10	FARC22Y	L01	TBA
ENGB06Y	L01	MF1	FARC24F	L01	TBA
ENGB07Y	L01	M2W2-4	FARC25S	L01	TBA
ENGB08Y	L01	MWF1			
ENGB09Y	L01	MWF12	FREA00A	L01	M10-12
ENGB10Y	L01	MW11			T10-12
	T0001	F9			W10-12
	T0002	F9			F10-12
	T0003	F10	FREA00Y	L01	MTWF12
	T0004	F12		P0001	TBA
ENGB11Y	L30	M7-10E	FREA01A	L01	M9-11
ENGB12Y	L01	MWF11			W9-11
ENGB14Y	L01	F2-4			F9-11
ENGB15Y	L01	MW2	FREA01B	L01	M10-12
ENGB16Y	L01	MW10			W10-12
	T0001	R1			F10-12
	T0002	R2	FREA01Y	L01	MWF10
	T0003	R3		L02	MWF12
ENGB17Y	L01	M2W2-4		L03	MWF1
ENGB26Y	L01	MWF1		L30	W6-9E
ENGB27Y	L30	W7-10E		P0001	TBA
ENGB32Y	L01	R11-1		P3001	TBA
ENGB33Y	L01	W2-4	FREA02Y	L01	TR10
ENGC06Y	L01	M3-5	FREB01B	L01	M9-11
ENGC08Y	L01	T2-4			W9-11
ENGC10F	L01	F2-4			F9-11
ENGC11S	L01	F2-4	FREB01Y	L01	MWF9
ENGC14Y	L01	TBA		L02	MWF10
ENGC15Y	L01	TBA		L01	MWF11-1
			FREB04F	L01	MWF11-1
FARA03Y	L30	R7-9E	FREB05S	L01	WF1
FARA70F	L01	M2-5	FREB20Y	L01	W6:30-8:30E
	L02	F9-12	FREB24Y	L30	T11-1
	L30	W7-10E	FREB26Y	L01	MW12
FARA71S	L01	M2-5	FREB40F	L01	MW12
	L02	F9-12	FREB41S	L01	MW2
	L30	W7-10E	FREB42F	L01	MW2
FARB04F	L01	T11-1	FREB43S	L01	MW2
FARB05S	L01	T11-1	FREB48Y	L01	MW1
FARB22Y	L01	T2-4	FREB49Y	L01	T2-4
FARB23F	L01	MW11	FREC01Y	L01	MWF9
FARB24Y	L01	M3-5		L02	MWF10
FARB32F	L30	M7-9E	FREC02F	L01	TBA
FARB36F	L01	R3-5	FREC03S	L01	TBA
FARB45S	L01	R3-5	FREC04F	L01	TBA
FARB51F	L01	R11-1	FREC05S	L01	TBA
FARB52S	L01	R11-1	FREC06F	L01	TBA
FARB54F	L01	R1-3	FREC07S	L01	TBA
FARB61Y	L30	T7-9E	FREC09Y	L01	TR1
FARB62S	L01	R1-3	FREC10S	L01	MW2
FARB70F	L01	T9-12	FREC90Y	L01	TBA
FARB72F	L01	W9-12	FREC99B	L01	TBA
FARB74S	L01	W9-12			
FARB75Y	L01	F1-4	GERA09H	L01	MW2
FARB82F	L01	W1-4	GERA10Y	L01	MWRF9
FARB83S	L01	W1-4	GERB19H	L01	MW3
				L02	MW4

GERB20Y	L01	MWF10	GRHB01Y	L01	MWF9
	L02	MWF12	GRHB03Y	L30	T7-10E
GERB25Y	L01	MWF11	GRHB24S	L01	MWF12
GERB30Y	L01	MWF1	GRHB29Y	L01	MW11
GERB36S	L01	MWF10			
GERB43Y	L01	M2-4	GRKA01Y	L01	MTWF2
GERB50S	L01	MWF12	GRKA10F	L01	MWF12
GERB63F	L01	MWF10	GRKB01S	L01	MWF12
GERB70S	L01	MWF10	GRKB30F	L01	TBA
GERB73F	L01	MWF12	GRKB31F	L01	TBA
GERC10Y	L01	MWF1	GRKB32F	L01	TBA
GERC13Y	L01	M2-4W3	GRKB33F	L01	TBA
GERC23F	L01	MWF10	GRKB34F	L01	TBA
GERC30F	L01	TBA	GRKB35S	L01	TBA
GERC33F	L01	TBA	GRKB36S	L01	TBA
GERC36F	L01	TBA	GRKB37S	L01	TBA
GERC40S	L01	TBA	GRKB38S	L01	TBA
GERC43F	L01	TBA	GRKB39S	L01	TBA
GERC46S	L01	TBA	GRKB40Y	L01	TBA
GERC48Y	L01	TBA			
GGRA04Y	L01	R9-11	HISA01Y	L01	TR12
	P0001	T1		L30	T7-9E
	P0002	T2		T0001	T3
	P0003	T3		T0002	T4
GGRA05Y	L01	T9-11		T0003	T5
	P0001	W2-4		T0004	T10
	P0002	R11-1		T0005	T11
GGRB01Y	L01	MW1		T0006	M2
GGRB02Y	L01	R9-11		T0007	M3
	P0001	T11-1		T0008	M4
	P0002	T2-4		T0009	R10
GGRB03Y	L01	MW10		T0010	R11
	P0001	M3-5		T3001	T5E
	L01	T11-1		T3002	T6E
GGRB05Y	L01	T11-1		T3003	T9E
GGRB06Y	L01	MW11	HISB02Y	L01	MW9
GGRB07Y	L01	T2-4		T0001	T11
	P0001	R2-4		T0002	T12
GGRB13Y	L01	MW9		T0003	T1
GGRB16Y	L01	F10-1	HISB03Y	L01	MW2
GGRB17Y	L30	T7-9E		T0001	W12
GGRB18Y	L30	M7-10E		T0002	W1
GGRB19Y	L01	R11-1		T0003	F12
	P0001	W11-1		T0004	F1
GGRB21S	L01	M2W2-4		T0005	F2
GGRB22F	L01	M2W2-4	HISB04Y	L01	MW1
GGRB23Y	L01	T9-11		L30	M7-9E
GGRC01Y	L01	TBA		T0001	M9
GGRC12F	L01	T11-1		T0002	M12
GGRC13S	L01	T11-1		T0003	M11
GGRC17Y	L01	R1-4		T3001	M6E
GGRC18S	L01	T9-11		T3002	M9E
GGRC21F	L30	W7-10E	HISB06Y	L01	MW11
GGRC23F	L01	R9-11		T0001	F9
GGRC25S	L01	M3-5		T0002	F10
GGRC26Y	L01	MW10	HISB07Y	L01	MW10
GGRC27Y	L01	T2-4		T0001	F1
				T0002	F2
GLGA01Y	L01	W2-4		T0003	F3
	P0001	M9-11	HISB12Y	L01	M3-5
	P0002	M11-1		T0001	R2
GLGA02S	L01	R9-11		T0002	R3

HISB13Y	L01	TR4	HUMB61S	L30	T7-9E
	T0001	R9	HUMB71F	L30	W6-10E
	T0002	R10	HUMC10H	L01	TBA
HISB15Y	L01	T2-4	HUMC95Y	L01	TBA
	T0001	W9	HUMC96Y	L01	TBA
	T0002	W12	HUMC97Y	L01	TBA
HISB16Y	L01	TR1	HUMC98Y	L01	TBA
	T0001	T10	HUMC99Y	L01	TBA
	T0002	T12			
HISB17Y	L01	T9-11	ITAA01Y	L01	MWF10
	T0001	W1	ITAA02H	L01	MW11
	T0002	W4	ITAA03S	L01	MWF12
	T0003	W5	ITAA11Y	L01	MWF10
HISB18Y	L01	TR1	ITAB01Y	L01	MWF11
	T0001	T3	ITAB03F	L01	MWF12
	T0002	T4	ITAB06S	L01	MWF12
HISB23Y	L01	MW12	ITAB11Y	L01	MWF11
	T0001	R9	ITAB20S	L01	M3-5W4
	T0002	R10	ITAB21Y	L01	W2-4
HISB31Y	L01	T11-1		T0001	TBA
	T0001	R2	ITAB27F	L01	MWF1
	T0002	R3	ITAB33S	L01	MWF1
HISB45Y	L30	T7-9E	ITAB50F	L01	TBA
HISB46Y	L01	T2-4	ITAB52F	L01	TBA
	T0001	M12	ITAB53F	L01	TBA
	T0002	M1	ITAB54F	L01	TBA
HISB47Y	L01	R3-5	ITAB55S	L01	TBA
	T0001	W9	ITAB56S	L01	TBA
	T0002	W12	ITAB57S	L01	TBA
HISC01Y	L01	TBA	ITAB58S	L01	TBA
HISC02F	L01	TBA	ITAB59S	L01	TBA
HISC03S	L01	TBA	ITAB60Y	L01	TBA
HISC14Y	L01	T9-11	ITAC01Y	L01	M10F10-12
HISC17Y	L01	R3-5			
HISC32Y	L01	R11-1	JBCB35Y	L01	TR12
HISC35S	L01	R9-11	JBCB36H	L01	M4
HISC41F	L30	W7-9E		P0001	R2-5
HISC42S	L30	W7-9E	JCEB54S	L30	W7-10E
HISC47Y	L01	M3-5	JCEB72F	L01	MWF3
HISC62Y	L01	W2-4	JCEB73S	L01	MWF3
HISC78Y	L30	R7-9E	JCEC02Y	L01	T2-4
			JCEC40S	L01	F9
HUMA01Y	L01	M4-6	JCSB27Y	L01	TR10
	T0001	T11		L30	T7-10E
	T0002	T12	JMCC31F	L01	W9-11
	T0003	T1	JMCC51S	L01	MWF9
	T0004	F10	JMPB50F	L01	MWF11
HUMA11Y	L01	MW9	JMPB51S	L01	MWF11
HUMB13Y	L01	MW12	JPMC42S	L01	T3F10-12
HUMB15Y	L01	R11-1			
HUMB18S	L01	M3-5	LATA01Y	L01	MTWF2
HUMB19S	L01	T2-4	LATA10F	L01	MWF1
HUMB23S	L01	MW10	LATB01S	L01	MWF1
HUMB25F	L01	MW10	LATB30F	L01	TBA
HUMB28Y	L30	R7-9E	LATB31F	L01	TBA
HUMB33Y	L01	T2-4	LATB32F	L01	TBA
	T0001	TBA	LATB33F	L01	TBA
HUMB35F	L30	T7-9E	LATB34F	L01	TBA
HUMB37F	L30	T7-9E	LATB35S	L01	TBA
HUMB42S	L01	MF1	LATB39S	L01	TBA
HUMB45S	L01	R1-3	LATB40Y	L01	TBA
HUMB50S	L01	MW1	LATC01F	L01	TBA
HUMB54F	L01	MW1	LATC02S	L01	TBA

LINA01Y	L01	MW10	MATA40F	L01	TR9
	T0001	F10		L02	TR10
	T0002	F10		T0001	M3-5
	T0003	F11		T0002	T11-1
	T0004	F11		T0003	W9-11
LINA04F	L01	WF2		T0004	W3-5
LINA04S	L30	W7-10E		T0005	R11-1
LINB02S	L01	MWF12		T0006	R3-5
LINB04S	L01	MWF3		T0007	F11-1
LINB07Y	L30	T7-9E		T0008	F1-3
LINB08S	L01	MWF12	MATA45S	L01	TR9
LINB09F	L01	MWF11		T0001	M3-5
LINB11Y	L01	MWF1		T0002	T11-1
LINB26S	L01	MW12		T0003	W9-11
LINB27F	L01	MWF12		T0004	W3-5
LINB28F	L01	T11-1		T0005	R11-1
LINC01F	L01	TBA		T0006	R3-5
LINC02F	L01	TBA		T0007	F11-1
LINC03F	L01	TBA		T0008	F1-3
LINC04S	L01	TBA	MATA55Y	L01	MF9
LINC05Y	L01	TBA		T0001	T3-5
LINC21Y	L01	MF3		T0002	R11-1
				T0003	R3-5
MATA22Y	L01	MF9	MATB25Y	L01	M3R3-5
	L02	MF10	MATB40F	L01	M2W2-4
	T0001	M11-1	MATB41F	L01	MF1
	T0002	M3-5		T0001	M2-4
	T0003	T9-11		T0002	T9-11
	T0004	T3-5		T0003	F10-12
	T0005	W9-11		T0004	R9-11
	T0006	W3-5		T0005	R1-3
	T0007	R9-11		T0006	F3-5
	T0008	R3-5	MATB42S	L01	MF1
	T0009	F11-1		T0001	T9-11
	T0010	F3-5		T0002	R9-11
MATA26Y	L01	MF9		T0003	R3-5
	L02	MF10		T0004	F3-5
	L03	MF10	MATB45S	L01	M2W2-4
	T0001	M11-1	MATB50F	L01	T9R9-11
	T0002	M3-5	MATB52F	L01	TR1
	T0003	T9-11		T0001	T9
	T0004	T3-5		T0002	W10
	T0005	W9-11		T0003	R9
	T0006	W3-5		T0004	R3
	T0007	F11-1		T0005	F10
	T0008	R9-11	MATB55S	L01	T9R9-11
	T0009	R3-5	MATB57S	L01	TR1
	T0010	F3-5		T0001	T9
	T0011	M11-1		T0002	W10
	T0012	M3-5		T0003	R9
	T0013	T9-11		T0004	R3
	T0014	T3-5	MATB70S	L01	T11R11-1
	T0015	W9-11	MATC32S	L01	M10-12F9
	T0016	W3-5	MATC44F	L01	M12F12-2
	T0017	R9-11	MATC49S	L01	M12F12-2
	T0018	R3-5	MATC51F	L01	T11R1-3
	T0019	F3-5	MATC52F	L01	T9-11R10
			MATC54F	L01	M10-12F9
			MATC56S	L01	T11R1-3
			MATC60F	L01	T12R3-5
			MATC65S	L01	T12R3-5
			MATC67S	L01	T9R9-11

MUSA01Y	L01	M2W2-4	PHYB09S	L01	M3-5W3
MUSB06F	L01	MW11	PHYB17S	L01	T12F3
MUSB07S	L01	MW11		T0001	F10
MUSB09H	L01	TBA	PHYB18F	L01	T12F3
MUSB10H	L01	TBA	PHYC01Y	L01	TF2
MUSB14S	L01	TR11	PHYC03Y	L01	TF1
MUSB15F	L01	TR11	PHYC05H	L01	W9-3
			PHYC06F	L01	T3F11
NSCA01Y	L01	TF1			
	T0001	F2	POLA01Y	L01	T1R1-3
NSCA02Y	L01	MW11		T0001	T9
NSCA03Y	L01	M3-5		T0002	T10
				T0003	T12
PHLA01Y	L01	MWF10		T0004	T3
	L02	MWF12		T0005	T2
	L03	MWF1		T0006	R10
	L30	W7-10E		T0007	R11
PHLB01F	L01	MWF11		T0008	R12
PHLB03F	L30	M6:30-9:30E		T0009	R3
PHLB05F	L01	M2W2-4		T0010	R4
PHLB10S	L01	T1R1-3	POLB50Y	L01	MW11
PHLB11S	L30	M7-10E		T0001	M9
PHLB20F	L01	T1R1-3		T0002	W9
PHLB30F	L01	M2W2-4	POLB51S	L01	T2-4
PHLB42F	L01	M2W2-4	POLB52F	L01	T2-4
PHLB43S	L01	M2W2-4	POLB53Y	L01	MW10
PHLB44F	L01	MWF1	POLB60Y	L30	M7-10E
PHLB45S	L01	MWF1	POLB70Y	L01	MWF11
PHLB46F	L01	MWF10	POLB71Y	L30	M7-10E
PHLB47S	L01	MWF10	POLB80Y	L01	T1R1-3
PHLB61S	L01	MWF1	POLB81F	L01	T9-11
PHLB70F	L01	T2-4	POLB82Y	L01	R9-11
PHLB81S	L01	T1R1-3	POLB85Y	L01	T2-4
PHLB87S	L01	T1R1-3	POLB86Y	L01	R11-1
PHLB88S	L01	M2W2-4	POLB87Y	L01	T11-1
PHLC87S	L01	T2-4	POLB88Y	L30	R7-10E
PHLC95F	L01	TBA	POLB91Y	L01	M2W2-4
PHLC95S	L01	TBA	POLB93Y	L01	T4R3-5
PHLC96F	L01	TBA	POLB94Y	L30	T7-10E
PHLC96S	L01	TBA	POLC51S	L30	W7-10E
PHLC97F	L01	TBA	POLC60F	L01	M3-5
PHLC97S	L01	TBA	POLC61S	L01	M3-5
PHLC98F	L01	TBA	POLC62F	L01	T11-1
PHLC98S	L01	TBA	POLC65F	L30	W7-10E
PHLC99Y	L01	TBA	POLC70Y	L01	W2-4
			POLC81S	L01	T9-11
PHYA01Y	L01	TF11	POLC85Y	L01	M2W2-4
	P0001	T1-4	POLC86S	L01	T11-1
	T0001	T9	POLC91F	L01	R11-1
	T0002	T10	POLC92S	L01	R11-1
PHYA02Y	L01	TF11			
	L02	TF12	PSYA01Y	L01	MWF9
	P0001	M2-5		L02	MWF10
	P0002	T9-12		L03	MW4F3
	P0003	W2-5		L30	W7-10E
	P0004	R9-12		P0001	T9-11
PHYB01Y	L01	T2F9		P0002	T11-1
	T0001	T11		P0003	W10-12
PHYB04F	L01	TF10		P0004	W12-2
	T0001	T9		P0005	R10-12
PHYB06Y	L01	TF3		P0006	R12-2
	T0001	T1		P0007	F1-3
PHYB08H	L01	W9-3		P3001	T7-9E
				P3002	W5-7E

PSYB07F	L01	M1W4R11F1	PSYB61S	L01	T1R1-3
	T0001	W9	PSYB62Y	L01	T2-4
	T0002	W11		P0001	W10-1
	T0003	R10		P0002	F12-3
	T0004	R12	PSYB65F	L01	T11-1
	T0005	R2	PSYC15S	L01	T2-4
	T0006	R3	PSYC20S	L01	R9-11
PSYB08S	L01	M1W4F1	PSYC22S	L01	T11-1
	T0001	R9	PSYC53F	L01	R3-5
	T0002	R10	PSYC53S	L01	T1R11-1
PSYB09S	L01	T9-11	PSYC60S	L01	MF12
	P0001	M2-5	PSYC80F	L01	F2-4
	P0002	T2-5	PSYC85F	L01	M12F11-1
	P0003	R9-12	PSYC90-C93	L01	TBA
PSYB10F	L30	T7-9E	PSYC98Y	L01	T9-11
	T3001	M3			
	T3002	T10	RUSA10Y	L01	T10-1
	T3003	W4			R11-1
	T3004	R2	RUSB02Y	L01	T3-5F12-2
	T3005	T6E	RUSB16Y	L01	W10-12
	T3006	T6E	RUSB25Y	L01	F10-12
	T3007	T9E	RUSC02F	L01	TBA
	T3008	T9E	RUSC03S	L01	TBA
PSYB10S	L01	MW2	RUSC04H	L01	TBA
	T0001	M11	RUSC05Y	L01	TBA
	T0002	M12			
	T0003	T12	SOCA01Y	L01	MW3
	T0004	T2		L02	T4R3-5
	T0005	W10		L30	M7-10E
	T0006	W12		T0001	M9
	T0007	R11		T0002	M4
	T0008	R1		T0003	W9
PSYB11F	L01	T11-1		T0004	W12
PSYB12F	L30	M7-10E		T0005	W4
PSYB20F	L01	MW3	SOCB01Y	L01	MW1
	T0001	M12		T0001	M10
	T0002	T12		T0002	W10
	T0003	T2	SOCB02Y	L01	MW11
	T0004	W12		T0001	M9
	T0005	R11		T0002	W4
	T0006	R1	SOCB03Y	L01	T2-4
	T0007	R3		L30	T7-10E
	T0008	R10	SOCB04Y	L01	M2W2-4
PSYB30S	L01	T4R3-5	SOCB05Y	L01	R11-1
PSYB32F	L30	W7-10E		T0001	R3
PSYB32S	L30	W7-10E	SOCB06F	L01	T1R1-3
PSYB33S	L01	T11R11-1	SOCB08F	L01	MW12
PSYB40F	L01	T9-11		L30	W7-10
	P0001	T2-5		T0001	M1
	P0002	R2-5	SOCB09S	L01	MF2
PSYB41F	L01	R9-11	SOCB10Y	L01	T11-1
	P0001	W2-5	SOCB11Y	L01	M2W2-4
	P0002	F10-1		T0001	T9
PSYB45F	L30	R7-10E	SOCB13Y	L01	MWF9
PSYB50F	L30	T7-10E		L30	R7-10E
PSYB51F	L01	MW10	SOCB15Y	L01	MF10
PSYB52S	L01	M3-5F11	SOCB16Y	L01	MWF1
	P0001	M10-12	SOCB17S	L01	T2-4
	P0002	M3-5	SOCB18Y	L01	R9-11
PSYB57S	L01	T4R3-5		T0001	R3
PSYB60F	L01	T1R1-3	SOCB19Y	L01	T11-1
	T0001	T2		T0001	T4
	T0002	T4			
	T0003	R4			

SOCB20Y	L01	T11-1	SPAA01A	L30	TR7-10E
SOCB23Y	L01	R11-1	SPAA01Y	L01	MWF9
	T0001	R4		L02	MWF9
SOCB24F	L01	TR10	SPAB01B	L30	TR7-10E
SOCB25S	L01	TR10	SPAB01Y	L01	MWF11
SOCC04S	L30	T7-10E	SPAB03S	L01	T11-1
SOCC06F	L01	T2-4	SPAB04F	L01	MWF12
SOCC07S	L01	W10-12	SPAB12S	L01	MWF12
SOCC11S	L01	T2-4	SPAB17F	L01	R1-3
SOCC12F	L01	T2-4	SPAB18Y	L01	MWF1
SOCC13F	L01	T2-4	SPAB24S	L01	MWF11
SOCC16F	L01	TR11	SPAB27S	L01	T2-4
SOCC17S	L01	M3-5W4	SPAC01Y	L01	MWF10
SOCC18Y	L01	M3-5	SPAC02F	L01	TBA
SOCC19F	L30	T7-10E	SPAC03F	L01	TBA
SOCC20Y	L01	T9-11	SPAC04F	L01	TBA
SOCC24F	L01	W3-5	SPAC05F	L01	TBA
SOCC25S	L01	R9-11	SPAC06F	L01	TBA
SOCC27F	L01	R9-11	SPAC07S	L01	TBA
SOCC40F	L01	TBA	SPAC08S	L01	TBA
SOCC41F	L01	TBA	SPAC09S	L01	TBA
SOCC42S	L01	TBA	SPAC10S	L01	TBA
SOCC43S	L01	TBA	SPAC11Y	L01	TBA

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Briggs, N.	Geology	3119/3162 S-521
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Campbell, I.M.	Zoology	3210	S-550A
Campbell, K.	Psychology	3184	S-411B
Carbone, D. (Mrs.)	Sec.-Assist. to Principal	3243	S-407D
Carney, L. (Ms.)	Fine Art	3307	R-3233
Caton, C. (Mrs.)	Asst. to the Principal	3243	S-407D
Caudarella, M.	Psychology	3184	S-411B
Cave, P.	Geography	3326	R-5708
Chadwick-Evans, M.	Library	3183	S-645A
Chawla, S.	Mathematics	3378	R-4031
Cheng, F.	Teaching Preparation	3283	S-132A
Chew, J.J.	Anthropology	3252	H-421
Chiang, J.A.	Biology	3215	S-252
Chiang, R.G.	Biology	3215	S-252
Chiang, Y. (Ms.)	Chemistry	3336	S-511A
Chicoy-Daban, I.	Spanish	3185	H-328
Cho, K. (Mrs.)	Academic Secretary	3237	S-521B
Choy, Victoria	Counselor	3292	S-302C
Chu Fu, S.	Biochemistry	3221	S-542
Clarke, J.N.	Astronomy	3378	R-4231
Cober, R.J.	Purchasing Agent	3207	1069 Military Tr.
Cohen, A.	Psychology	3184	S-411B
Cohen, J.	Economics	3153	H-417
Cole, W.	Biology	3215	S-423
Colman, S.J.	Political Science	3168	R-5227
Colton, T.	Political Science	3170	R-5237
Compana, J.	Italian	3315	H-313A
Computer Terminal		3122	S-624
Connery, M. (Mrs.)	Library	3183	S-503
Control Room	Physical Education	3392	R-1115
Cook, I. (Mrs.)	Purchasing	3209	1069 Military Tr.
Corben, B.	Leave of Absence		
Corben, H.C.	Leave of Absence		
Corbett, J.	Classics	3171	H-520
Cowie, W.J.	Geography	3168	R-5245
Creelman, M.J.C.	English	3144	H-505A
Cross, S.	Animal Technician	3239	S-609
Cruz, T.	Biology	3224	S-542
Csizmadia, V.	Chemistry	3318	S-432
Cupchik, G.	Psychology	3184	S-410E
Curri, G. (Mrs.)	Registrar	3266	S-413
Curtis, J.A. (Mrs.)	French	3186	H507
Cwyner, L.	Biology	3155	S-546
Czczot, J.	Technical Services	3282	S-109
Damm, E. (Mrs.)	Sec.-Registrar's Office	3310	S-416C
Davies, L.J.	Consultant-T.L.U.	3181	S-303H
Dawson, T. (Mrs.)	Personnel Office	3140	S-405A
Deavitt, J. (Mrs.)	Library	3317	S-504
DeDominicis, B. (Mrs.)	Sec.-Life Sciences	3131	S-521B
DeGeer, L.	Chemistry	3318	S-427C
de Lannoy, J-L	Leave of Absence		
Delver, R.	Mathematics	3352	R-4022
DeMatteis, D.L.	English	3370	R-3241
Dengler, R.E.	Botany	3218	S-552
Denny, C. (Mrs.)	Asst. Sup.-Ath. Services	3392	R-1115

De Rosa, R.	Zoology	3215	S-422
DeVivo, D.	Philosophy	3141	H-526
Dick, W.M.	History	3197	H-333
Dion, K.K.	Psychology	3337	S-538B
Dobbs, N.H.	Associate Registrar	3139/3292	S-302B
Donnelly, M.	Political Science	3168	R-5231
Doucette, L.E.	French	3205	H-334
Dove, J.E.	Chairman-Physical Sciences	3289	R-4044
Dowler, E.W.	History/Dean-Students in Res.	3151	H-317A
Dyer, C.	Astronomy	3192	R-4227
Edwards, N. (Miss)	Academic Secretary	3329	S-521B
Edwards, R.	Computer Terminal	3122	S-624
Eksteins, M.	History	3258	H-319
Ellers, E.W.	Mathematics	3352	R-4024
Elliott, E.J.	History	3175	H-523
Enright, W.H.	Computer Science		
Enu-Kwesi, L.	Botany	3224	S-526
Esberey, J. (Miss)	Political Science	3170	R-5229
Evans, C.	French	3197	H-335
Evans, M.	Mathematics	3192	R-4225
Everingham, P. (Miss)	Chemistry	3227/3231	S-532
Fahrin, K.	Technical Services	3282	S-109
Falkenheim, V.	Leave of Absence		
Farrell, J.	Chemistry	3231	S-435
Farrow, R. (Mrs.)	Library	3183	S-504A
Fattal, T.	Commerce	3118	R-3028
Fennell, J.	Library	3317	S-504
Filosa, M.	Biology	3321/3353	S424/S-517
Fisher, A.	Asst. Director-Writing Lab.	3369	S-303F
Fitz Gerald, G.A.	Manager-Physical Services	3201	S-303
FitzPatrick, M. (Mrs.)	Health Service	3253	S-304
Fletcher, J.	Political Science	3170	R-5243
Foley, Joan E.	Principal	3111	S-409
Forrin, A. (Mrs.)	Counselor	3292	S-302B
Forrin, B.	Psychology	3211	S-569
Foster, V.	Library	3246	S-503
Fox, Dr. T.W.	Health Service	3303	S-304A
Franceschetti, A.	Italian	3315	H-313A
Freedman, M.	Biology	3224	S-540
Friedlander, J.	Mathematics	3340	R-4032
Froebel, A. (Mrs.)	Library	3238	S-635
Fukumoto, K.	Teaching Preparation	3217	S-236
Galimberti, J.	Political Science	3170	R-5243
Gamble, S. (Mrs.)	Library	3317	S-503
Gambles, R.	Botany	3210	S-433
Gardiner, J. (Mrs.)	Bookstore	3251	S-360
Garry, M. (Mrs.)	Registrar's Secretary	3266	S-416C
Gatenby, S.	S.S.C. Secretary	3135	R-3042
Genzinger, K. (Mrs.)	Teaching Preparation		S-225
Gerrard, M. (Miss)	Assistant Registrar	3300/3127	S-415
Gervers, M.	History	3182	R-5207
Ghyczy, C. (Mrs.)	Teaching Preparation	3213	S-249
Gill, H.S.	Zoology	3353	S-515
Gillies, R.	Commerce	3118	R-3028
Ginther, L.	Library	3202	S-649
Glickman, Y.	Sociology	3170	R-5225
Godde-Nijhowne, K. (Mrs.)	Spanish	3178	H-331A
Godwin, V. (Mrs.)	Academic Secretary	3237	S-521B
Goldenberg, Rita	Psychology	3339	S-540B
Gombay, A.	Leave of Absence		
Gooch, P.W.	Chairman-Humanities	3309	H-528
Goodwin, I. (Mrs.)	Library	3202	S-649
Gornik, M.	Supervisor-Audio/Visual	3152/3350	S-339

Gover, B. (Mrs.)	Academic Secretary	3146	R-5008
Govind, C. K.	Zoology	3224/3215	S-558
Gradowski, D. (Mrs.)	Photography and Graphics	3241	R-3226
Grafstein, D.	Sociology	3193	H-430
Graham, W. C.	Philosophy	3346	H-322
Granberg, H.	Geography	3130	R-5703
Grant, J.	Classics/Assoc. Chairman Hum.	3171	H-510
Greenhouse		3114	3290 Ellesmere Rd.
Greenwood, B.	Geography	3301	S-565
Griffin, P. A.	Physics	3352	R-4239
Grossman, S. (Ms)	History	3146	R-5007
Guchardi, John	Supervisor-Ath. Services	3392	R-1115
Gunderson, M.	Economics	3212	R-4008
Gurd, J.	Biochemistry	3221/3224	S-542
Hadden, K. (Miss)	Botany	3155	S-559
Hall, B.	Fine Art	3334	R-3239
Hall, D.	Mathematics	3378	R-4031
Hall, M.	Mathematics	3378	R-4031
Halperin, J. S.	Mathematics	3340	R-4028
Hammond, M.	Sociology	3193	H-432
Hannigan, J.	Sociology	3109	H-518
Harford, D.	Photography and Graphics	3241	R-3226
Harper, M.	English	3185	H-324
Head, R. W.	Central Stores	3281	S-112
Heighington, G.	Psychology	3211	S-563
Heikkila, J.	Zoology	3224	S-540
Hemmings, R. T.	Chemistry	3319	S-418B
Henderson, K.	Chemistry	3133	S-418C
Hendley, S. (Mrs.)	Life Sciences-Secretary	3291	S-421B
Herzberger, H.	Philosophy	3141	H-526
Hill, B.	Admin. Assist.-Phys. Serv.	3269	S-303A
Hilton, S.	Anthropology	3118	R-4014
Hiscox, J.	Botany	3224	S-526
Ho F.	Biology	3210	S-424
Hobson, P.	Economics	3212	R-4010
Holman, D.	Fine Art	3370	R-3708
Holst, B. (Mrs.)	Academic Secretary	3326	R-5111
Holt, N. (Mrs.)	Secretary-Student Services	3292	S-302
Hoogstraten, J.	Fine Art	3307	R-3233
Hope, June (Sanguin)	Admin. Assist. to the Comptroller	3396	S-406
Hopen, C. E.	Anthropology	3252	H-427
Horbert, W.	Zoology	3215	S-423
Horner, K.	Library	3246	S-503
Howard, W. J.	English	3279	R-5005
Howell, N.	Sociology	3212	R-5219
Howson, S.	Economics	3212	R-4229
Hunt, D.	English	3182	R-5209
Hurd, J. (Mrs.)	Admission/Schools Liaison		
	Counsellor	3359	*S-302E
Hussain, A.	Library	3277	S-629
Idler, Monika	Electron Microscopy-Life Science	3335	S-228
Irvine, E. (Mrs.)	Library	3246	S-503
Irwin, M. E. (Ms)	Classics	3171	H-519
Isajiw, W.	Sociology	3193	H-428
Israelstam, G. F.	Botany	3224	S-526
Izzard, B. (Mrs.)	Purchasing	3208	1069 Military Tr.
Jack, T.	Chemistry	3133	S-427B
Jackson, H. J. (Mrs.)	English	3146	R-5215
Jacobs, A. E.	Physics	3340	R-4241
Jamal, K. (Mrs.)	Academic Secretary	3302	H-411
James, D. M.	Linguistics	3186	H-506
James, R. L.	Sociology	3193	H-431
Jennings, C.	French	3141	H-515

Jodham, T.	Chemistry	3283	S-132
Johnson, K. (Mrs.)	Registrar's Office	3361	S-412B
Karagianis, D.	Electronics	3159	S-109
Kardos, P.	Mathematics	3378	R-4031
Katz, G. (Mrs.)	Italian	3307	R-3235
Kay, J.	English	3182	R-5209
Keast, P.	Mathematics	3340	R-4030
Kennedy, J. M.	Psychology	3339	S-564
Kenney-Wallace, G. A.	Chemistry	3227	S-533
Kenyon, J. P. B.	History	3175	H-523
Kerrigan, B. (Mrs.)	Division of Social Sciences	3212	R-5111
Kerrigan, D. P.	Animal Technician	3239	S-609
Khan, C.	Electronics	3159	S-109A
Khan, S.	Biology	3353	S-515
Kimmerly, M. (Mrs.)	Admin. Assist.-Social Sciences	3332	H-409A
King, J. D.	Physics	3193	R-4038
Kirkness, W. J.	French	3197	H-335
Kistoth, S.	Research Assist.-Geography	3130	R-5226A
Klajner, F.	Psychology	3329	S-418D
Knight, V. (Mrs.)	Registrar's Office	3127	S-416B
Knightley, L. R.	Chief Engineer	3123	Power Plant
Kosachov, N. (Mrs.)	Russian	3178	H-331A
Krashinsky, M.	Economics	3153	H-418
Kresge, A. J.	Chemistry	3336	S-511
Kromek, W.	Library	3246	S-503
Kronberg, P. P.	Astronomy	3378	R-4221
Krouglicof, A.	Botany	3210	S-433
Kukan, G.	Anthropology	3137	R-2507
Kukla, A.	Psychology		
Kupka, I.	Mathematics	3340	R-4032
Kwan, H.	Library	3246	S-503
Laaniste, Jaan	Asst. Director-Physical Education	3393	R-2261
Lakhani, G. (Mrs.)	Library	3246	S-503
Lambek, M.	Anthropology	3118	R-4217
Latta, M.	Anthropology	3153	H-429B
Lawson, E. (Mrs.)	Sec. Co-op Programme	3117	R-5111A
Le, L. (Mrs.)	Library	3183	S-633A
Leah, P. J.	Mathematics		
Lee, J. A.	Sociology	3109	H-517
Lee, K.	Botany	3218	S-553
Lee, M. J. G.	Physics	3194	R-4219
Lee, S. W.	Zoology	3224	S-536
Legge, R. E.	Glassblower	3148	S-109B
Leon, P.	Spanish	3186	H-507A
Levine, K.	Philosophy	3205	H-331
Library Storage Houses		3265/3290	3316 Ellesmere
Lieberman, S.	Commerce	3118	R-3028
Lintlop, S.	Biology	3215	S-423
Lodhi, A.	Sociology	3212	R-5223
Lopez, E.	Audio/Visual Technician	3152/3350	S-341
Loth, D.	Fine Art	3334	R-3239
Lowrey, C. (Ms)	Library	3366	S-647A
Lyons, P.	Psychology	3337	S-540D
MacDonnell, N.	Storekeeper-Central Stores	3281	S-112
Macklin, B.	Psychology	3339	S-540B
MacLeod, C.	Psychology	3218	S-570
MacLeod, D.	History	3175	H-524
Magee, L.	Psychology	3339	S-564
Mann, R.	Supervisor of Building	3285	S-212A
Manzer, R. A.	Political Science		
Margeson, J. M. R.	English	3175	H-521
Marnoch, G.	Locksmith	3235	S-107
Marsden, L.	Sociology	3193	H-431

Martin, P.G.	Astronomy	3352	R-4235
Martin, S.	Psychology	3339	S-540C
Mathematics Drop-In Centre			R-2313
Matthews, M.	English	3179	R-5012
Mawson, N. (Mrs.)	Admin. Assist.-Residences	3174	S-3031
Mayo, J.	Music	3126	S-356
McAuliffe, D.J.	Italian	3334	R-3243
McClelland, R.A.	Chemistry	3318	S-532
McConnell, G.	Greenhouse	3236	S-702
McDonald, I.R.	Classics	3205	H-329
McFeat, T.	Anthropology	3252	H-421
McGee, T.	Music	3126	S-356
McGregor, E. (Mrs.)	Photography and Graphics	3328	R-3226
McKay, W.	History	3175	H-524
McLean, A. (Miss)	Secretary-Physical Education	3393	R-2255
Meiss, D.	Zoology	3215	S-422
Mendelsohn, E.	Mathematics	3192	R-4036
Mignault, L.	French	3141	H-522
Miki, B.	Biology	3224	S-536
Milgram, N.W.	Psychology	3353	S-513
Minhinnett, R.	Photography and Graphics	3241	R-3226
Miron, J.	Geography	3130	R-5706
Mitchell, T.	Commerce	3118	R-4104
Mittler, S. (Miss)	French	3151	H-323
Moes, P.C.	French	3178	H-325
Moggridge, D.	Economics	3115	H-416
Moir, J.S.	History	3175	H-524
Mole, D.	Economics	3118	R-4012
Montgomery, B. (Mrs.)	Information Assistant	3243	S-407D
Moore, E.	Mathematics	3378	R-4031
Moreland-Davies, J.	Anthropology	3136	H-423
Morris, G. (Mrs.)	Library	3238	S-635
Mosher, D.L.	Philosophy	3144	H-505
Mugnier, F. (Ms)	French	3179	R-5211
Mulgrave, N. (Miss)	Audio/Visual Department	3152/3350	S-338D
Murrill, E.I. (Mrs.)	Admin. Assist. Accounting	3357	S-410A
Murrill, M.F.	Comptroller	3106	S-408
Nair, K.	Chemistry	3318	S-427C
Nalewajko, C. (Sparling)	Botany	3218	S-551A
Namjoshi, Suniti	English	3182	R-5213
Neumann, H.	History	3146	R-5007
Ng, C. (Mrs.)	Biology	3211	S-569
Nicholson, T.	Library	3154	S-223C
Nigosian, S.	Humanities	3171	H-520
Norman, Jacqueline (Mrs.)	Admin. Assist.-Physical Sciences	3352	R-4235
Norman, J. (Mrs.)	Library	3277	S-627
Normandin, M.	Astronomy	3378	R-4231
O'Donnell, P.J.	Physics	3192	R-4042
O'Ferrall, M.	Chemistry	3336	S-511
Ohlendorf, H.	German	3197	H-330
Ong, C.L.	Physics	3378	R-4231
O'Toole, R.	Assoc. Chairman-Social Sciences	3109	H-516
Ott, W. (Mrs.)	Bookstore-Buyer	3354	S-360
Ovenden, L.	Biology	3155	S-546
Overend, B. (Mrs.)	Academic Secretary	3150	H-525A
Pallandi, T.	Director-Physical Education	3121	R-2251
Paris, J.	Central Stores	3281	S-112
Parker, I.	Economics	3212	R-5008
Patenall, A.J.G.	English	3185	H-324
Pauker, J.	Psychology	3339	S-540B
Pearl, J.L.	History	3314	H-315A
Pearsall, R. (Mrs.)	Registration Assistant	3127	S-416
Pearson, L. (Mrs.)	Admin. Assist-Registrar's Office	3310	S-412A

Peek, E.	Mathematics	3378	R-4031
Perrault, C.R.	Computer Science	3194	R-4018
Perz, J.M.	Physics	3231	S-525
Petit, T.	Psychology	3321	S-557
Pfohl, J. (Miss)	Library	3246	S-503
Physical Geography Research Laboratory		3301	S-436
Physical Geography Teaching Laboratory		3301	S-312
Pick, F.	Botany	3218	S-553
Pickett, C.	Biology	3321/3353	S-517/S-241
Pickles, J.	Physical Services-Residences	3180	Residence Trailer
Pickup, L. (Mrs.)	Academic Secretary	3151	H-332A
Pierce, S.J.	Mathematics	3340	R-4034
Pilskalnietis, M.A. (Mrs.)	Assist. Director-Physical Education	3294	R-2259
Piltz, D. (Mrs.)	Secretary-Admissions Officer	3359	S-302
Poapst, J.	Commerce	3118	R-4104
Ponomareff, C.V.	Russian	3258	H-320
Poppleton, T.	Draftsman	3327	S303D
Potter, J.	Chemistry	3133	S-418C
Powell, M.	Chemistry	3336	S-428
Price, A.	Geography	3301	S-567
Prociuk, Ihor	Computing Co-ordinator	3173	S-630
Pye, J.	History	3146	R-5007
Quick, S.	Physics	3342	R-2031B
Radio Scarborough		3356/3143	S-203
Ralphs, M. (Ms.)	Registrar's Office	3127	S-416A
Ramcharitar, H.	Audio/Visual Maintenance	3350/3152	S-265
Rapoport, A.	Sociology	3170	R-2505
Reception Desk		3398	Main Entrance
Redekop, C.	Political Science	3170	R-5243
Registration General Enquiry		3300	
Reid, J.	Library	3240	S-637
Relph, E.	Geography	3326	R-5712
Rice, S.A.	Chemistry	3231	S-435
Richardson, B.	Psychology	3211	S-569
Richardson, G.P.	Humanities	3144	H-511
Richardson, P. (Mrs.)	Post Office	3271	Post Office
Ritchie, J.C.	Botany	3155	S-559
Roberts, S.	Accounting	3103	S-411A
Robertson, I.R.	History	3178	H-327
Rodd, F.H.	Biology	3221	S-544
Roeder, R.C.	Astronomy	3352	R-4233
Rogers, S.	Zoology	3353	S-515
Rubinoff, A.	Political Science	3168	R-5233
Ruddell, E. (Mrs.)	Bookstore	3251	S-360
Russell, C. (Mrs.)	Fees Counsellor	3116	S-407
Russell, S.E. (Miss)	Physical Services Office	3203	S-304
Ryall, M. (Mrs.)	Health Service	3253	S-304
S.A.C.		3219	R-2000
S.O.A.P.		3196	R-2000
Sala, K.L.	Chemistry	3231	S-435
Salus, M.W.	Connaught Development Group	3132	R-3018
Salus, P.H.	Connaught Development Group	3132	R-3018
Samuel, A.	Classics	3144	H-511
Sandbrook, K.R.J.	Political Science	3168	R-5239
Sanguin	See Hope		
Sarson, J.	Building Services Officer	3285	S-212B
Saunders, R.	Economics	3115	H-414
Saunders, T.	History	3146	R-5007
Sawchuk, L.	Anthropology	3252	H-422
Scadding, J.	Economics	3153	H-415
Scavizzi, G.	Fine Art	3334	R-3239

Schaerer, B. (Miss)	Academic Secretary	3150	H-525A
Scholtens, A. (Mrs.)	Library	3246	S-503
Schonberg, M.	Drama	3126	S-259
Schroeder, H. B.	Anthropology	3136	S-311/H-423
Schuyffel, P. H.	Electronics	3159	S-109A
Seikaly, H.	Chemistry	3318	S-432
Shahjidi, F.	Chemistry	3318	S-432
Shaikh, A. A.	Zoology	3353	S-515
Shank, C.	Printing Department	3108	S-202
Sharpe, R. W.	Mathematics	3194	R-4020
Sharpe, S.	Chemistry	3318	S-427C
Shaw, M. C.	Fine Art	3185	H-326
Sheps, A. N.	History	3314	H-321
Sherman, U. L.	German	3314	H-318
Shirley, R. W.	Anthropology	3252	H-426
Shum, D.	Mathematics	3378	R-4031
Sidon, E.	Biology	3215	S-423
Siebelhoff, R.	Fine Art	3307	R-3237
Silver, J.	Microbiology	3339/3224	S-540E
Simmie, P.	Economics	3212	R-4006
Simpson, P.	French	3141	H-522
Skarke, P.	Geography	3326	R-5704
Skyrme, R.	Spanish	3258	H-317
Smith, A.	Bookstore	3251	S-360
Smith, I. (Mrs.)	Accounting	3206	S-410B
Smith, L.	Philosophy	3288	H-513
Smith, M. (Mrs.)	Psychology	3321	S-531
Smith, M. J.	Career Counsellor	3292	S-302F
Sobel, J. H.	Philosophy	3288	H-513
Sociology Graphics Area		3137	R-2512A
Solomon, S. (Mrs.)	Political Science	3170	R-5241
Soobrian, I.	Chief Constable	3274	S-300
Sparling	see Nalewajko		
Spencer, G.	Purchasing Department	3286	1069 Military Tr.
Spilsbury, S. (Mrs.)	Library	3317	S-503
Stanley, J.	History	3146	R-5007
Statten, Dr. T.	Psychiatrist	3303	S-304A
Stawinoga, A.	Commerce	3115	H-428A
Student Services		3292	S-302
Students' Council		3135/3104	R-3042
Students' Pub		3177	R3251
Sullivan, D. (Mrs.)	Secretary-Physical Sciences	3289/3192	R-4704
Szilagyi, S.	Chemistry	3336	S-428
Tait, M.	English	3315	H-313
Tang, Y. C.	Chemistry	3336	S-428
Tapper, G. (Mrs.)	Accounting	3195	S-410B
Taras, D.	Political Science	3168	R-5235
Taylor, B.	History	3178	H-327
Taylor, I.	Psychology	3184	S-411B
Teaching Learning Unit		3181	S-303H
Terrell, B. (Mrs.)	Accounting	3206	S-410B
Thankachan, C.	Chemistry	3318	S-432
Theil, K.	English/Humanities	3370	R-5014
Thomas, A. C.	English	3179	R-5012
Thompson, K.	Physics	3342	R-2031B
Thompson, P.	Philosophy	3205	H-331
Tidwell, T. T.	Chemistry		
Toms, D.	Astronomy	3378	R-4231
Toombs, G.	Printing Department	3108	S-202
Torkin, L.	Commerce	3118	R-3028
Trembley, G. F. R.	French	3178	H-327
Tuck, C. (Mrs.)	Academic Secretary	3302	H-410
Tyman, S.	Philosophy	3141	H-526

Ungar, S.	Sociology	3109	H-514
Urquhart, F. A.	Insect Migration Studies	3295	S-410D
Urquhart, N. (Mrs.)	Insect Migration Studies	3295	S-410D
Uttley, P. (Mrs.)	Admin. Assist.-Humanities	3304	H-527
Van Veen, G. H.	Physics	3342	R-2031
Verner, A.	Chemistry	3133	S-418C
Vicari, E. P. (Mrs.)	English	3288	H512
Walker, A.	Chemistry	3319	S-535
Walker, M. B.	Physics	3340	R-4237
Wall, K.	Teaching Preparation	3217/3321	S-331
Walter, C.	Music	3126	S-356
Warden, J. R.	Associate Dean-Academic	3124	S-414
Ware, C.	Psychology	3339	S-564
Weatherley, A. H.	Biology	3353	S-515
Webb, D.	History	3146	R-5007
Webb, R.	Biology	3210	S-420B
Weisser, K.	Technical Services	3282	S-109
Wesley, K.	Electronics	3159	S-109A
Westbrook, T.	Photography and Graphics	3241	R-3226
Western, P. (Mrs.)	Leave of Absence		
Westgate, J. A.	Geology	3162/3119	S-521
Westin, R.	Economics	3115	H-414
Whalen, S. (Ms.)	Russian	3346	H-315
White, N.	Animal Technician	3239	S-609
Wiederkehr, M. (Miss)	Library	3202	S-649
Wilker, J. B.	Mathematics	3192	R-4040
Willadsen, I. (Mrs.)	Physical Services Office	3203	S-303C
Willard, C. (Mrs.)	Library	3183	S-504A
Willard, J.	Landscape Foreman	3272	S-200B
Williams, D. D.	Zoology	3221	S-549
Williams, R. G.	Chairman - Life Sciences	3291	S421A
Williams, L.	Anthropology	3137	R-2509A
Wilson, Douglas	Purchasing Department	3247	1069 Military Tr.
Wilson, M. (Mrs.)	Residence Office	3391	S-3031
Wiseman, S.	Psychology	3329	S-420A
Wittmann, H.	German	3346	H-314
Wolanin, L. B.	Electronics	3159	S-109A
Wood, J.	Chemistry	3318	S-427C
Wood, J. (Mrs.)	Registrar's Office	3127	S-416B
Wood, M. (Mrs.)	Secretary-Assoc. Dean	3124	S-414A
Woods, J. D.	Linguistics	3288	H-508
Woollatt, G.	Physics	3342	R-2503
Wright, R. L.	Assist. Manager-Physical Services	3200	S-303E
Writing Laboratory		3369	S-303F
Wuillemin, D.	Psychology	3321	S-531
Yakimov, P. (Mrs.)	Library	3165	S-653A
Yamamoto, P. (Mrs.)	Library	3238	S-635
Yamazaki, J. (Mrs.)	Secretary-Physical Sciences	3342/3378	R-4706
Yap Chung, E.	Teaching Preparation	3217	S-322
Youson, J. H.	Zoology	3321/3215	S-566
Zaks, S.	Teaching Preparation	3217	S-327
Zucker, K.	Psychology	3339	S-540B

REQUEST TO REGISTER IN A SUPERVISED
READING

OR RESEARCH COURSE

To Be Completed by the Student

NAME: _____
STUDENT NUMBER: _____ SESSION: _____
COURSE: _____
PROPOSED AREA OF STUDY: _____
PREVIOUS COURSES IN DISCIPLINE: _____

SIGNED: _____ DATE: _____

To Be Completed by the Instructor

I approve _____'s registra-
tion in the course _____, and agree
to act as the supervisor of studies.
Evaluation: _____
SIGNED: _____ DATE: _____

REQUEST TO REGISTER IN A SUPERVISED
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COURSE: _____
PROPOSED AREA OF STUDY: _____
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1979

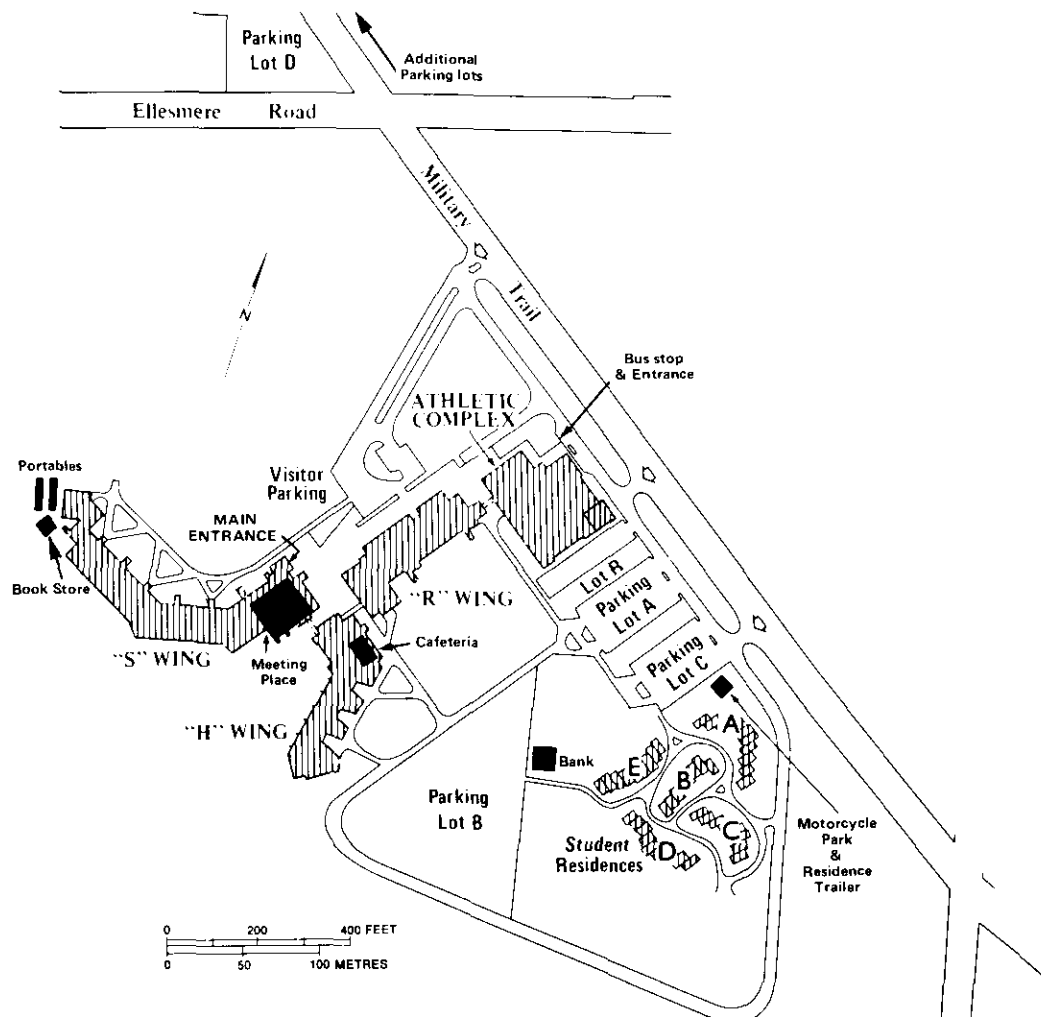
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	18	19	20	21	22	23	24			19	20	21	22	23	24
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	11	12	13	14	15	16	17			9	10	11	12	13	14
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	20	21	22	23	24	25	26			21	22	23	24	25	26
	27	28	29	30						28	29	30	31		
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1980

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	22	23	24	25	26	27	28			23	24	25	26	27	28
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	29	30								29	30				
APR	1	2	3	4	5	6	7		OCT	4	5	6	7	8	9
	8	9	10	11	12	13	14			11	12	13	14	15	16
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	22	23	24	25	26	27	28			25	26	27	28	29	30
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JUN	1	2	3	4	5	6	7		DEC	1	2	3	4	5	6
	8	9	10	11	12	13	14			8	9	10	11	12	13
	15	16	17	18	19	20	21			15	16	17	18	19	20
	22	23	24	25	26	27	28			22	23	24	25	26	27
	29	30								29	30	31			



"H"

H-403B Faculty Lounge
H-409A Social Sciences Divisional Office
H-527 Humanities Divisional Office

"R" WING

R-3042 S.C.S.C. Offices
R-3103 D.R. Campbell Lounge
R-3226 Graphics and Photography
R-4044 Physical Sciences Divisional Office
R-5223 Writing Lab

ATHLETIC COMPLEX

R-2255 Physical Education Office
R-3251 Pub

"S" WING

S-209 Post Office
S-223B Foyer Francais
S-300 Lost and Found, Security
S-303C Physical Services Office, Parking & Bus Tickets
S-303I Residences Office
S-304 Health Service
S-338 Audio-Visual Department; TV studios
S-403 Council Chamber
S-407 Fee's Office
S-409 Principal's Office
S-413 Registrar's Office
S-414 Associate Dean (Academic)
S-418C Student Services
S-421A Life Sciences Divisional Office
S-624 Computer Centre

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