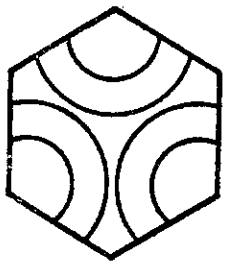


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The Academic Affairs Committee at its regular meeting held on Tuesday, June 5th, 1973 approved the following new degree regulations for Scarborough College:

(a) Fifteen-Course Degree Requirements

A student shall be said to have completed the requirements for a fifteen-course degree when, at the end of the session which includes the fifteenth course, he or she has:

- (i) obtained standing in at least fifteen courses;
- (ii) obtained standing in at least eight B and C level courses;
- (iii) obtained a final mark of 60% or better in at least eight full course equivalents. Of these courses with a final mark of 60% or better, at least four must be B- or C-level courses;
- (iv) for a Bachelor of Science degree, obtained standing in at least six B- or C-level courses in one or more of the following disciplines: Astronomy, Biological Science, Chemistry, Geography, Mathematics, Physics, Psychology.

(b) Twenty-Course Degree Requirements

A student shall be said to have completed the requirements for a twenty-course degree when he or she has:

- (i) obtained standing in twenty courses;
- (ii) obtained standing in at least thirteen B and C-level courses;
- (iii) obtained a mark of 60% or better in a total of at least twelve full course equivalents. Of these twelve courses, at least eight must be B- or C-level courses;
- (iv) for a Bachelor of Science degree, included at least nine B- or C-level courses in one or more of the following disciplines: Astronomy, Biological Science, Chemistry, Geography, Mathematics, Physics or Psychology.

July 5, 1973.

J.D. King,  
Associate Dean and Registrar.

Social  
Sciences

Anthrop

Commerce

Economics

Geog

Poli Sci

Social Sci

Sociology

scarborough  
college 73-74



UNIVERSITY OF TORONTO

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## The Academic Calendar

### Summer Evening Session – 1973

1 April	Last day for new students to apply for admission to the University.
14 May	'Y', 'F' and 'H' courses begin.
21 May	Victoria Day – all classes cancelled.
23 May	Last day to add an 'F' course.
28 May	Last day to add 'Y' and 'H' courses.
8 June	Last day to withdraw from an 'F' course without academic penalty.
21 June	Last day of classes in 'F' courses.
30 June	Last day to withdraw from 'Y' and 'H' courses without academic penalty.
2 July	Dominion Day – all classes cancelled.
3 July	'S' courses begin.
11 July	Last day to add an 'S' course.
27 July	Last day to withdraw from an 'S' course without academic penalty.
6 August	Civic Holiday – all classes cancelled.
9 August	Last day of classes in 'Y', 'H' and 'S' courses.
13 August	Examinations begin.
17 August	Examinations end.

### Summer Day Session – 1973

15 May	Last day for new students to apply for admission to the University.
2 July	Dominion Day – all classes cancelled.
3 July	'Y', 'F' and 'H' courses begin.
5 July	Last day to add an 'F' course.
10 July	Last day to add 'Y' and 'H' courses.
13 July	Last day to withdraw from an 'F' course without academic penalty.
20 July	Last day of classes in 'F' courses.
23 July	'S' courses begin.
25 July	Last day to add an 'S' course.
1 August	Last day to withdraw from 'Y' and 'H' courses without academic penalty.

3 August	Last day to withdraw from an 'S' course without academic penalty.
6 August	Civic Holiday – all classes cancelled.
10 August	Last day of classes in 'Y', 'H' and 'S' courses.
13 August	Examinations begin.
17 August	Examinations end.

### Winter Session – 1973-74

1 June	Last day to apply for admission to the regular Winter Programme beginning Sept. 1973.
1 June	Last day for current students to request a transfer to another College.
4 June	Scarborough College Convocation – 10:30 a.m.
1 July	Last day to apply for admission to the Winter (Extension) Session beginning Sept. 1973.
3 September	Labour Day (University closed).
4-7 September	Registration Week.
7 September	The late registration fee will be enforced after this date.
10 September	Classes for the 1973-74 Academic Year begin at 9:00 a.m.
28 September	Last day for adding Fall Term Half-Courses (F) and Year Courses (Y and H).
30 September	Last day for receipt of applications for Ontario Student Awards (OSAP).
8 October	Thanksgiving Day (all classes cancelled).
15 October	Last day for receipt of applications for University of Toronto In-Course Bursaries.
15 October	Last day for withdrawal from a Fall Term Half-Course (F) without academic penalty, for all students.
15 November	Last day for students not attending University for the first time to withdraw from a Full Year Course (Y) or a Year-long Half-Course (H) without academic penalty.
23 November	Fall Convocation.
7 December	Last day of classes.
10-19 December	Term Test and Final Examination Period.
14 December	All term assignments should be submitted by this date.

1974	
2 January	Second-term instalment of fees due.
7 January	Second term begins. Classes commence at 9:00 a.m.
25 January	Last day for adding Spring Term Half-Courses (S).
31 January	Last day for receipt of applications for Scarborough College bursaries.
1 February	Last day for students attending University for the first time to withdraw from Year Courses (Y and H) without academic penalty.
1 February	Last day for withdrawal from a Spring Term Half-Course (S) without academic penalty, for all students.
1 February	Last day for all students to withdraw from the College without academic penalty (see notes in General Regulations for Standing).
18-22 February	Reading Week (all classes cancelled).
11 April	Last day of classes. All term and year assignments should be submitted by this date.
12 April	Good Friday (University closed).
18 April	Annual Examinations begin.
8 May	Annual Examinations end.

June Convocation

Fri. morning  
June 7/74.

10:30am.

## Administration and Faculty, 1972-73

### The University

#### Chancellor

P.M. McGibbon, S.M., B.A., LL.D.

#### President

J.R. Evans, M.D., D. Phil., LL.D., F.R.C.P. (C)

#### Vice-President and Provost

D.F. Forster, B.A., A.M.

#### Vice-President — Business Affairs

A.G. Rankin, B.Com., F.C.A.

#### Vice-President — Institutional Relations and Planning

J.H. Sword, M.A., LL.D.

#### Vice-President — Internal Affairs

J.K. Conway, B.A., Ph. D.

#### Chief Librarian

R.H. Blackburn, M.A., B.L.S., M.S., LL.D.

#### Director of Admissions

W. Kent, M.A.

#### Director of Student Awards

P.S. Phillips, B.A.

#### Director of Statistics and Records

J.M. Tusiewicz, M.A. Sc., M.B.A.

#### Director of University Health Service

G.E. Wodehouse, M.C., M.D., F.R.C.P.

#### Director of Career Counselling and Placement Centre

D. Currey, B.A. Sc.

#### Acting Director of International Student Centre

E.A. McKee, B.A., M.A.

#### Director of Advisory Bureau

D.J. McCulloch, B.A., M.D., D. Psych., F.R.C.P.(C)

#### Director of Housing Service

M.G. Jaffary, B.A.

### The College

#### Principal

D.R. Campbell, B.A., M.A., D.F.C. and Bar

#### Assistant to the Principal

M. Bradshaw, M. Sc.

#### Associate Dean (Planning and Building)

A. Walker, B.Sc., Ph. D.

#### Associate Dean and Registrar

J.D. King, B.A., Ph. D.

#### Assistant Registrars

N.H. Dobbs, B.A.

D. Keeling, M.A.

#### Admissions Adviser

L. Gordon

*Registration Officer*

A.M. Lewis, B.A.

*Registration Assistant*

R. O'Carroll

*Student Services*

B. Drainie, B.A., M.A.

J.M. Scott, B.A.

*Comptroller*

M.F. Murrill

*Assistant to the Comptroller*

J. Sanguin

*Librarian*

J.L. Ball, M.A.

*Assistant Librarian*

J.K. Sowby, B.A., B.L.S.

*Director of Writing Laboratory*

B. Corben, B.A., M.A.

*Director of Athletics*

T. Pallandi, B.P.H.E., B.A., M.S.

*Assistant Director of Athletics*

M.A. Prettie, B.P.H.E.

*Manager of Physical Services*

G.A. Fitzgerald

## **Division of Humanities**

*Chairman*

P.H. Salus, B.Sc., M.A., Ph.D.

*Administrative Assistant to the Chairman*

A.P. Western

**Classics**

A. Boddington, B.A., Oxon., *Associate Professor*

J.H. Corbett, B.A., M.A., Ph.D., *Associate Professor*

J.N. Grant, B.A., M.A., Ph.D., *Associate Professor*

J.R. Warden, B.A., M.A., *Associate Professor*

E.M. Irwin, B.A., Ph.D., *Assistant Professor*

I.R. McDonald, B.A., Ph.D., *Assistant Professor*

M.C. Shaw, B.A., Ph.D., *Lecturer*

**Drama**

M. Schonberg, B.A., M.A., Ph.D., *Lecturer*

**English**

W.J. Howard, M.A., Ph.D., *Associate Professor*

J.M.R. Margeson, M.A., Ph.D., *Professor*

M.C. Kirkham, M.A., M. Phil., *Associate Professor*

J. Kay, M.A., Ph.D., *Assistant Professor*

B.S. Martineau, M.A., Ph.D., *Assistant Professor*

A.J.G. Patenall, M.A., Ph.D., *Assistant Professor*

A.C. Thomas, M.A., Ph.D., *Assistant Professor*

E.P. Vicari, M.A., Ph.D., *Assistant Professor*

M. Tait, M.A., *Assistant Professor*

M.A. Creelman, M.A., *Lecturer*

T. Long, M.A., M. Phil., *Lecturer*

S. Namjoshi, M.A., M.S., Ph.D., *Assistant Professor*

R.D. Rogers, M.A., *Lecturer*

**Fine Art**

G. Scavizzi, M.A., Ph.D., *Associate Professor*

R. Siebelhoff, M.A., *Lecturer*

S. Amenta, M.A., *Lecturer*

D. Holman, B.F.A., *Lecturer*

G. Moray, M.A., *Lecturer*

**French**

G.F.R. Trembley, L. es. L., Ph.D., *Professor*

L.E. Doucette, B.A., Ph.D., *Associate Professor*

W.J. Kirkness, M.A., Ph.D., *Associate Professor*

P.C. Moes, M.A., B.L.S., Ph.D., *Associate Professor*

W.J. Bancroft, M.A., Ph.D., *Assistant Professor*

J.A. Curtis, M.A., M. Phil., Ph.D., *Assistant Professor*

C. Jennings, Ph.D., *Associate Professor*

L.B. Mignault, B.A., Ph.D., *Assistant Professor*

S. Mittler, M.A., Ph.D., *Assistant Professor*

M. Walker, B.A., *Instructor*

**German**

H.H.H. Ohlendorf, A.M., Ph.D., *Assistant Professor*

W. Tepfenhardt, M.A., Ph.D., *Visiting Assistant Professor*

H. Wittmann, Abitur, M.A., Ph.D., *Assistant Professor*

**History**

J.S. Moir, M.A., Ph.D., *Professor*

J.P.B. Kenyon, M.A., Ph.D., *Associate Professor*

W. Dick, M.A., Dip. Ed. Ph.D., *Associate Professor*

M. Eksteins, B. Phil., D. Phil., *Assistant Professor*

J.L. Pearl, M.A., Ph.D., *Assistant Professor*

I.R. Robertson, M.A., *Lecturer*

A.N. Sheps, M.A., *Lecturer*

**Italian**

A. Franceschetti, Dott. in Lett., Ph.D., *Associate Professor*

E. Costa, M.A., *Lecturer*

G. Katz, M.A., *Instructor*

### Linguistics

P.H. Salus, M.A., Ph.D., *Professor*  
R.I. Binnick, M.A., Ph.D., *Associate Professor*  
J.D. Woods, A.B.D., *Assistant Professor*

### Philosophy

D. Holman, B.A., A.M., *Professor*  
J.H. Sobel, M.A., Ph.D., *Assistant Professor*  
F.A. Cunningham, B.A., M.A., Ph.D., *Assistant Professor*  
P.W. Gooch, M.A., Ph.D., *Associate Professor*  
W.C. Graham, M.A., Ph.D., *Assistant Professor*  
D.L. Mosher, B.A., Ph.D., *Assistant Professor*

### Russian

C.V. Ponomareff, M.A., Ph.D., *Associate Professor*  
S. Whalen, M.A., *Lecturer*

### Spanish

R.J. Barta, M.A., Ph.D., *Associate Professor*  
P.R. León, M.A., Ph.D., *Assistant Professor*  
J.M. Maillard, M.A., Phil. M., *Assistant Professor*  
R. Skyrme, M.A., M. Litt., Ph.D., *Assistant Professor*  
J.I. Chicoy-Daban, M.A., *Lecturer*  
*Writer-in-Residence*  
M. Meyers, B.A., M.A., *Visiting Associate Professor*

## Division of Science

### Chairman of Life Sciences

J.C. Ritchie, B.Sc., Ph.D., D.Sc.

### Chairman of Physical Sciences

H.B. Corben, M.A., M.Sc., Ph.D.

### Administrative Assistant to the Chairmen,

### Division of Science

I.A. MacDonald

### Astronomy

R.C. Roeder, M.Sc., Ph.D., *Associate Professor*  
P.P. Kronberg, M. Sc., Ph.D., *Assistant Professor*  
P. Martin, M.Sc., Ph.D., *Assistant Professor*

### Biology

J.C. Ritchie, B.Sc., D. Sc., Ph.D., *Professor*  
F.A. Urquhart, M.A., Ph.D., *Professor*  
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M.F. Filosa, M.S., Ph.D., *Associate Professor*  
G.F. Israelstam, B.Sc., Ph.D., *Associate Professor*

C. Sparling, B.Sc., Ph.D., *Associate Professor*  
I.R. Brown, B.Sc., Ph.D., *Assistant Professor*  
R.E. Dengler, B.Sc., Ph.D., *Assistant Professor*  
C.K. Govind, M.Sc., Ph.D., *Assistant Professor*  
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M. Mantuani, B.Sc., Ph.D., *Assistant Professor*  
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S. Farrell, B.A., *Instructor*  
C. Pickett, B.Sc., M.A., *Instructor*

### Chemistry

R.O. Harris, M.A., Ph.D., *Associate Professor*  
T. Tidwell, M.A., Ph.D., *Associate Professor*  
A. Walker, B.Sc., Ph.D., *Associate Professor*  
R.B. Caton, B.A., Ph.D., *Assistant Professor*  
T.R. Lynch, M.A., Ph.D., *Assistant Professor*  
M. Bradshaw, M.Sc., *Instructor*  
G. Kwong-Chip, B.Sc., Ph.D., *Lecturer*  
F. Tsien, B.Sc., Ph.D., *Lecturer*  
R. Yealland, M.A., Ph.D., *Lecturer*  
J.P. Potter, B.Sc., *Instructor*  
K.A. Henderson, B.Sc., *Instructor*

### Mathematics

A. Rapoport, M.Sc., Ph.D., *Professor*  
E.W. Eilers, Dr. rer. Nat., *Associate Professor*  
P. Keast, B.Sc., Ph.D., *Associate Professor*  
I. Kupka, Ph.D., *Associate Professor*  
P.J. Leah, M.A., Ph.D., *Associate Professor*  
D. Delver, M.A., Ph.D., *Assistant Professor*  
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E. Mendelsohn, M.Sc., Ph.D., *Assistant Professor*  
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D.G. Hall, *Instructor*  
M. Hall, B.Sc., *Instructor*

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J.D. King, B.A., Ph.D., *Associate Professor*  
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M.B. Walker, B. Eng., D. Phil., *Associate Professor*  
A.E. Jacobs, B.Sc., Ph.D., *Assistant Professor*  
G. Woollatt, B.Sc., *Instructor*



### Psychology

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G.B. Biederman, B.Sc., Ph.D., *Associate Professor*  
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M.C. Smith, B.A., Ph.D., *Associate Professor*  
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M.G. Efran, B.A., Ph.D., *Assistant Professor*  
J. Kennedy, M.Sc., Ph.D., *Assistant Professor*  
A. Kukla, M.A., C.Phil., Ph.D., *Assistant Professor*  
N.W. Milgram, M.A., Ph.D., *Assistant Professor*  
A.S. Ross, M.A., Ph.D., *Assistant Professor*

## Division of Social Sciences

### Chairman

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### Anthropology

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M.W. Bucovetsky, B.A., M.A., Ph.D., *Assistant Professor*  
D.E. Campbell, B.A., Ph.D., *Assistant Professor*  
J. Gemello, B.A., *Assistant Professor*  
M. Gunderson, B.A., M.A., Ph.D., *Assistant Professor*  
M. Walker, B.A., M.S., Ph.D., *Assistant Professor*  
V.W. Bladen, B.A., M.A., LL.D., D.Litt., D.Sci.Soc., F.R.S.C. *Special Lecturer*  
R. Hyndman, B.A., M.Sc., *Lecturer*  
V. Sawyer, A.B., M.A., M.B.A., *Special Lecturer*

### Geography

P.W. Cave, B.A., M.A., D.Phil., *Associate Professor*  
K.E. Francis, B.S., M.S., Ph.D., *Associate Professor*  
B. Greenwood, B.Sc., Ph.D., *Associate Professor*  
C.J. Sparrow, B.Sc., Ph.D., *Associate Professor*  
A. Tayyeb, B.A., M.A., *Associate Professor*

M.F. Bunce, B.A., M.A., Ph.D., *Assistant Professor*  
G.J.D. Hewings, B.A., M.A., Ph.D., *Assistant Professor*

### Political Science

S.J. Colman, B.A., M.A., *Professor*  
G. Skilling, B.A., M.A., Ph.D., F.R.S.C., *Professor*  
E. Andrew, B.A., Ph.D., *Assistant Professor*  
V. Falkenheim, A.B., M.A., Ph.D., *Assistant Professor*  
K.R.I. Sandbrook, B.A., M.A., D.Phil., *Assistant Professor*  
S.G. Solomon, B.A., M.A., *Assistant Professor*  
R.S. Blair, M.A., *Lecturer*  
G. Friesen, B.A., A.M., Ph.D., *Lecturer*  
T.A. Heinrichs, B.A., M.A., *Lecturer*  
A. Rubinoff, A.B., M.A., *Lecturer*  
J. Dreifelds, B.Sc., M.A., *Special Lecturer*  
J.E. Esbrey, B.A., B.Ed., M.A., B.Sci., *Special Lecturer*

### Sociology

R.L. James, B.A., M.A., Ph.D., *Professor*  
W.M. Gerson, B.A., M.A., Ph.D., *Associate Professor*  
N. Howell, B.A., Ph.D., *Associate Professor*  
W.W. Isajiw, B.A., M.A., Ph.D., *Associate Professor*  
R.C. Beals, B.A., M.A., Ph.D., *Assistant Professor*  
J.L. deLannoy, LL.S., *Assistant Professor*  
L.L. Howard, A.B., M.A., Ph.D., *Assistant Professor*  
J.A. Lee, B.A., M.A., D.Phil., *Assistant Professor*  
R. O'Toole, B.A., M.A., Ph.D., *Assistant Professor*

Scarborough College is one of the eight colleges of the University of Toronto which offer programmes in Arts and Science. Courses were first offered by Scarborough College during the 1965-66 academic session. At that time, and until July 1, 1972, the College was a member of the Faculty of Arts and Science. Beginning with the 1972-73 academic year, the College discontinued its formal association with the Faculty and is now responsible directly to the Governing Council of the University. A close liaison with the Faculty is being maintained, however, so that, for example, students registered on one campus of the University will be able to take courses on other campuses of the University subject to certain regulations. Graduates of Scarborough College will continue to receive the B.A. or B.Sc. degree of the University of Toronto.

The new position within the University has allowed the College to progress more rapidly towards an academic programme which reflects the desires and needs of its members — both students and faculty. Beginning in 1973 students will be permitted to proceed towards a degree at a rate of their own choosing. Under the new regulations students will be permitted to take courses during both the winter and the summer sessions for credit towards a degree.

The College offers courses leading to 15-credit and 20-credit B.A. and B.Sc. degrees. Programmes which will lead to the 20-credit degree are not presently available in all subject areas, although the number of disciplines offering such programmes is growing steadily with the increase in the size of the College. Students have the option of taking the last five courses towards a 20-credit degree on the St. George Campus if they find the course selection in their preferred subject areas too limited at Scarborough. Students are permitted complete freedom of selection of subjects in their programmes and may enrol in courses of varying degrees of seniority and complexity. When accepting this freedom the student also assumes the responsibility for the determination of the nature of his or her programme — whether it is to be oriented towards specialization in a single discipline or is to be more interdisciplinary in character. The College urges, and assists its students to exercise this responsibility with discretion, and to avail themselves of as much counselling as they may require in order to proceed towards a degree in a suitable and satisfying programme.

## Library

For a college its size, Scarborough has a large and well equipped library — over 125,000 volumes, and over 1,000 current periodicals. Students have direct access to the books, which have been selected to support the courses offered in the College, and an expert staff of librarians is on hand to help students make good use of what is available.

Staff and students may also draw on the resources of the University of Toronto's Central Library in person or via the daily book delivery service.

The library is open until 11 pm. from Monday through Thursday during the school year and until 5 pm. on Fridays. It is open on Saturday from 10 am. to 5 pm. and on Sunday from 1 pm. to 5 pm. Extensive study areas outside the library equipped with individual study carrels are available at any hour during the school year.

Library policy is guided by a committee which includes students, as well as faculty and staff.

## Scholarships and Financial Assistance

Awards and financial assistance are available in one or a combination of three forms:

*Scholarships:* Awarded to students for academic excellence, without reference to financial need.

*Bursaries:* Awarded to students who demonstrate both good academic achievement and financial need or, in some cases, only financial need.

*Interest-free loans:* Provided to students who demonstrate financial need. Students must assume interest charges and commence repayment of their loans shortly after the termination of their studies.

### Ontario Student Awards Programme

In cases where students' and (in the case of dependent students) parents' resources are insufficient according to a Government means test to meet academic costs, the Ontario Student Awards Programme (OSAP) will provide assistance.

Most students who are Canadian citizens or landed immigrants, and who have established themselves as Ontario residents according to OSAP criteria, are eligible to apply for assistance. An Ontario Student Award is part interest-free loan and part grant.

In 1972-73, all awards of \$800. and less were interest-free loans. For awards over \$800., the first \$800. was awarded in the form of an interest-free loan, and the remaining portion of the award in non-repayable grant.

In 1972-73 awards ranged from as little as \$50. to as much as \$2200. depending upon the Government assessment of the student's need.

Each loan application is assessed individually by the Ontario Ministry of Colleges and Universities. A description of the method of assessment is available in the brochure, "Ontario Student Awards Programme, 1973-74", available from the Office of the Associate Dean and Registrar.

OSAP should be regarded as the primary source of financial assistance for needy Ontario students. Other assistance such as bursary assistance (below) is available only in small amounts to students who do not qualify to apply for Ontario Student Awards or who have received OSAP assistance which is insufficient to meet their needs.

Application forms may be obtained from the Office of the Associate Dean and Registrar (284-3300) or from any post-secondary institution in Ontario. Students are urged to apply early. Students who have not

submitted applications by 1 July may well not receive assistance in time for registration in September. Single students under twenty-four years of age whose parents are self-employed are urged to apply by 1 June if they hope to receive assistance in time for registration.

To be considered at all, OSAP applications must be submitted by 30 September, 1973. Applications submitted after this date but before 31 January 1974 will be considered for one-half the normal assistance. Only in cases where a sudden change in circumstances creates grave need will applications be accepted after 31 January 1974.

If there are significant changes in a student's financial circumstances, and if the student would like to request a review of his OSAP application, the student should make enquiries at the Office of the Associate Dean and Registrar or the Student Services Office.

If a student would like to have his OSAP assessment explained to him, he should similarly make enquiries at the Office of the Associate Dean and Registrar or Student Services Office.

## Scholarships

### I Admission Scholarships

Awarded to students entering Scarborough College directly from Grade 13 with outstanding high school records.

#### 1. University of Toronto Admission Scholarships

The University of Toronto awards a large number of scholarships which are listed in the booklet, *University of Toronto Admission Awards, 1973-74*, available at any Ontario high school. Application for University of Toronto admission scholarships must be made on application forms available from and submitted to the student's high school.

#### 2. Scarborough College Admission Scholarships

The following scholarships are awarded by the Council of Scarborough College. All students who apply for University of Toronto Admission Scholarships will automatically be considered for Scarborough College Admission Scholarships. A second application is unnecessary.

*I.O.D.E. Isabel Rutter Chapter Admission Scholarship.* One of three gifts of the Imperial Order, Daughters of the Empire, Isabel Rutter Chapter, this scholarship is awarded to a student with high first-class standing entering Scarborough College from any secondary school in the Borough of Scarborough. Value: \$200.

*Scarborough College Open Admission Scholarships.* From University of Toronto endowment funds allocated to the College a number of scholarships are awarded to students entering Scarborough College with high first-class standing. The number and value of the scholarships will be determined by the Scarborough College Council.

*Township of Pickering Admission Scholarship.* One of several gifts of the Township of Pickering, this scholarship is awarded to a student with first-class standing entering Scarborough College. Preference is given to Township of Pickering students. Value: \$250.

*Varsity Fund Admission Scholarships.* Gifts of the Varsity Fund, Three scholarships are awarded to students with high first-class standing entering Scarborough College. Value: \$350.

Students with outstanding high school records who completed Ontario Grade XIII work prior to 1972-73, or who completed high school work outside of Ontario may also apply for admission scholarships. For University of Toronto Scholarships, applications may be obtained from, and must be returned to, The Director of Student Awards (Simcoe Hall, University of Toronto, Toronto M5S 1A1) before 1 June 1973. Separate application must be made for Scarborough College Scholarships. Applications may be obtained from and must be returned to the Office of the Associate Dean and Registrar before 1 June 1973.

### II In-Course Scholarships

Awarded to students who achieve excellent academic standing at the College and who are continuing their studies at the College.

#### 1. University of Toronto In-Course Scholarships

A number of scholarships are awarded by the University of Toronto. Application forms are available in the fall from the Office of the Associate Dean and Registrar and must be submitted by 15 October, 1973.

#### 2. Scarborough College In-Course Scholarships

The Council of Scarborough College awards the following scholarships. All students who achieve outstanding results will be considered. It is not necessary to submit an application.

*I.O.D.E. Isabel Rutter Chapter Scholarships.* Two of three gifts of the Imperial Order Daughters of the Empire, Isabel Rutter Chapter, these scholarships are awarded to students who have completed at least five courses with overall high Grade "A" standing and who are continuing their studies at the College. Value: \$200.

*Scarborough College Open Scholarships.* From University of Toronto endowment funds allocated to the College a number of scholarships are awarded to students who have completed at least five courses with high Grade "A" standing and who are continuing their studies at the College. The number and value of the scholarships will be determined by the Scarborough College Council.

*Township of Pickering Scholarship.* One of several gifts of the Township of Pickering, this scholarship is awarded to a student who has completed at least five courses with high Grade "A" standing and who is continuing his studies at the College. Township of Pickering students are preferred. Value: \$250.

### III Graduating Class Prizes

Awarded to members of the graduating class with exceptionally high standing. No application is necessary.

*The Governor General's Silver Medal.* This medal is awarded to the student

with the highest standing in the graduating class of Scarborough College. *Graduating Class Prizes.* A prize, valued at about \$50, is awarded to the students with the highest standing in the graduating class in each of: Humanities, Sciences and Social Sciences.

#### Bursaries

##### 1. University of Toronto Bursaries

Students, who are in financial need and who have achieved a good academic record are eligible to apply for University of Toronto Bursaries. Application forms, available in the fall from the Office of the Associate Dean and Registrar, must be submitted by 15 October 1973.

##### 2. Scarborough College Bursaries

The following bursaries are awarded during the spring term. A single application form is used to apply for all of them. Application forms, available in the Office of the Associate Dean and Registrar, must be submitted by 31 January 1974.

*Scarborough College Special Bursaries.* From University of Toronto endowment funds allocated to the College, these bursaries are awarded to students in real financial need who are making very good academic progress. Value: \$150.

*Scarborough College Alumni Association Bursaries.* Gifts of the Varsity Fund, through the auspices of the Scarborough College Alumni Association, these bursaries are awarded to students in real financial need who are making satisfactory academic progress.

*Township of Pickering Bursaries.* Gifts of the Township of Pickering, these bursaries are awarded to students in real financial need who are making satisfactory academic progress.

*The MacDonald Bursaries.* Gift of Mr. Ian MacDonald, Administrative Officer of the Division of Science, two bursaries are awarded to students who have completed at least five courses with very good standing and who demonstrate real financial need. Value: \$200. each.

*The Dr. Vivian Paskal Memorial Bursary.* From a fund donated by the family, friends, colleagues and students of the late Dr. Vivian Paskal, this bursary is awarded to a student who will, in the next academic year, be completing the last five courses for a 20-credit degree, or who will be entering a graduate programme in Psychology. The award is made in the spring term but is paid in the following fall term after the bursary recipient has registered for his or her studies. Value: \$75.

#### Emergency Loans

The Scarborough College Emergency Loan Fund has been established from the contributions of members of Scarborough College.

The fund is designed to provide emergency, short-term loans to students who are unable to obtain assistance from any other source and who are in need of this assistance in order to carry on with their studies. Loans are provided to assist students with essential living costs only. Because of the limited size of the fund, loans cannot be provided to help

students pay tuition fees.

Students should enquire at the Office of the Associate Dean and Registrar or the Student Services Office.

## Student Services

The Student Services Office (Room S418C) offers counselling on: the choice of courses; OSAP, scholarships, bursaries and other forms of financial aid; part-time and summer jobs; medical and legal help. We have a Reading Room containing graduate school calendars, applications for professional school admission tests, information about study abroad, specialist programmes and career planning. A career counsellor from the St. George campus Career Counselling and Placement Center comes out to the college once a week.

The University can sometimes be a lonely or confusing place, and Student Services tries to provide a congenial, sympathetic atmosphere where you can ask questions or discuss whatever is on your mind. If you want to make an appointment, call 284-3292, or just drop in and see who's around.

## Housing

Construction is presently under way on a Scarborough College residence which will house approximately 260 male and female students. The residence will be in the form of townhouse units, each housing four or six students (the majority of them in single rooms) who will share living, kitchen and bathroom facilities. It is hoped that a portion of the residence will be completed by the fall of 1973; students who wish to apply should request an application from the Student Services Office, Room S418C, Scarborough College, 1265 Military Trail, West Hill, Ontario, M1C 1A4.

The student Services Office also has listings of accommodation in private homes in the Scarborough area. These listings change so often that they cannot be mailed out; students should come to Room S418C in August or early September for this information.

Ten small houses near the College are operated as a student co-operative. For information and application, write to the Scarborough College Cooperative Association, 1265 Military Trail, West Hill, Ontario, M1C 1A4.

Some accommodation is also available for female students at the Scarborough Regional School of Nursing, about one mile from the college. Applications should be sent to Mrs. Jopson-Taylor, Scarborough Regional School of Nursing, 2877 Ellesmere Road, West Hill, Ontario, M1E 4C1.

Students may also use the University of Toronto Housing Service at 49 St. George Street, Toronto, Ontario, M5S 1A1, if they wish to locate in the downtown area.

## Health Services

The Health Services offices are located on the third floor, Room S304. Medical care and advice is provided daily throughout the academic year.

A nurse is in attendance each day from 9:00 am to 5:00 pm. Physicians are available for clinical consultation by appointment on week days.

Sex and VD information, contraceptive advice and prescription, and counselling in the event of unwanted pregnancy are readily available.

A psychiatric service is provided at the college for consultation about emotional and personal problems, and for psychotherapy. The service is strictly confidential and is for all Scarborough College students. Many students use the psychiatric service to help resolve problems associated with personal growth and development, and to help with personal, family, social and emotional problems which may keep students from working effectively, or which may prevent enjoyment in relationships with others.

Appointments with Dr. Taylor Statten and members of the psychiatric staff may be made by calling 284-3303 or 928-2443, between 9:00 am and 5:00 pm. There is a psychiatrist on emergency call after 5:00 pm who may be reached by calling the St. George Street Infirmary 928-2458.

At times when the Health Services are not open, students living away from their homes may obtain telephone advice from attending college physicians through their offices: Dr. T.W. Fox 267-1605, and Dr. A.M. Breuls 439-3471.

The Health Services recommend:

1. Medical examination for all students participating in competitive athletics.
2. Vaccination, Tetanus Toxide and Salk Polio Vaccine at five-year intervals.
3. Tuberculin Testing or Chest X-ray for all students at intervals of four to five years.
4. Medical and Hospital Insurance coverage preferably through the Ontario Health Insurance Plan (OHIP).

## Athletics

The students of Scarborough College have excellent opportunities for participation in athletics and recreation. First, they can enjoy the benefits of a full programme on the Scarborough Campus which they help to plan and administer through the Executive of the Scarborough College Athletic Association. Second, as members of the University of Toronto community, they may also take part in any of the athletic and recreational activities offered at the St. George Campus.

Until the Fall of 1972 there were no indoor recreational facilities at Scarborough College. However, with the recent completion of an extension to the present college buildings, there is now available to our students and staff a large gymnasium measuring 144 x 120 feet, large enough to accommodate any indoor game, including 3 regulation size tennis courts. There are 4 squash courts, a large studio for rhythmic, dance, karate, fencing, judo etc., a very modern weight-training room, 2 saunas and locker and shower rooms. All this makes a fine addition to our excellent outdoor facilities which include football fields, 4 tennis courts and facilities for our sailing club.

The new additions are particularly welcome because they greatly assist in the achievement of our programme aims — free participation in a variety of activities, and opportunities for learning new, interesting sport skills which can be used after graduation.

A handbook containing detailed information regarding the athletic and recreation programme will be available in the fall.

## Application and Admission

Full details of the University of Toronto Undergraduate Admission requirements and application procedures are contained in the Undergraduate Admission Handbook 1973-74 (for students presenting Canadian qualifications) and the Undergraduate Admission Bulletin 1973-74 (for students presenting qualifications other than Canadian). Copies of the former publication are available in all Ontario Secondary Schools, and both booklets may be obtained on request from the Director of Admissions, University of Toronto, Toronto, Ontario, M5S 1A3.

### Application Procedures

Candidates currently enrolled as full-time students in Ontario Grade 13 should obtain application forms from their High School Guidance Office. All other candidates should first write to the Office of Admissions, specifying their interest in Scarborough College and giving full details regarding their academic standing.

### Basis of Admission

The basis of admission for applicants whose Grade 13 programme was undertaken in 1972-73 is outlined below; candidates who completed Grade 13 in 1971 or previously should present a seven credit programme. Entrance to a first year of study in the undergraduate programme is offered to candidates from Ontario Secondary Schools who demonstrate good standing, based upon the following evidence:

1. Completion of Secondary School studies, including a full programme of academic work at the Grade 13 level.
2. A recommendation by the Secondary School last attended regarding fitness for University studies.
3. A complete academic report of the three final years of Secondary School.
4. Results of standardized tests offered by the Service for Admission to College and University.

Candidates offering programmes of equivalent standing from another educational system should contact the Office of Admissions who will answer all enquiries relating to equivalent certificates.

### Mature Students (Non-Matriculants)

Applicants twenty-three years of age or over, residents of Ontario for at least one year, who have a sound academic record, will be considered for admission as mature students upon completion with high standing of one of the Pre-University courses offered by the Division of University

Extension. Persons wishing to apply as mature students should consult the Office of Admissions about their eligibility before undertaking one of the Pre-University courses, since successful completion of a Pre-University course does not in itself ensure selection. Such students are admitted on academic probation (Please consult page 25).

### **Pre-University Courses**

These courses are designed to assist persons who wish to be considered for admission to the University of Toronto as "non-matriculant" students or who desire preparation for more advanced courses. They are similar to Grade 13 courses, but demand performance at the level that will be expected of applicants in the first year of University study.

Courses are offered in English, History, Mathematics, Physics and Chemistry. The fee is approximately \$100 per course. A brochure giving additional information is available upon request from the Division of University Extension, 119 St. George Street, University of Toronto, Ontario, M5S 1A3.

## **Summary of Application Dates**

Applications for admission should be submitted as early as possible in the year for which the applicant seeks admission, and not later than the dates below.

1 April, 1973 Applications for the Summer Evening Session.

15 May, 1973 Applications for the Summer Daytime Session.

1 June, 1973 Applications for the regular programme beginning September, 1973.

1 July, 1973 Applications for the Winter (Extension) Session beginning September, 1973.

## **Counselling**

Applicants who have any questions or problems are invited to contact Mrs. L. Gordon, Admissions Adviser, Office of the Associate Dean and Registrar, Scarborough College, (284-3359).

## **Course Selection**

### **a) New Students**

As soon as an applicant has been admitted and has accepted his offer of admission, he or she will be able to plan his or her programme. All new students are required to choose their courses in person with the help of one of the college counsellors. To this end, the Office of the Associate Dean and Registrar is open on some evenings in the summer months in addition to the regular daytime hours. Detailed information is sent to all admittees.

### **b) Currently registered students**

Current full-time students will receive course selection information for the 1973-74 academic year in March 1973. In addition to being strongly advised to seek counselling from the staff of the College, students will be

required to have their course selection form signed by their Faculty adviser before it is handed in to the Office of the Associate Dean and Registrar. Current part-time students will continue, as in the past to receive and complete their course selection by mail.

### **c) Course changes and dates**

New course selections and changes to existing course selections will be accepted until Friday, 10 August, 1973. No course changes will be accepted between 10 August and the first day of term, Monday, 10 September, 1973. Students who have not made their course selection by 10 August, 1973 will be required to do so during Registration.

## **Registration**

When a student registers he or she pays his or her fees and receives a) a library and registration card, b) his or her course selection confirmed c) a personal timetable. Registration information will be mailed to all students.

## **Course changes**

### **1. Course change forms are used**

a) in order to enter a course after term has begun, as the permission of the instructor is required for all students.

b) in order to change the section within the same course, when the section change is recorded and the signature of the instructor obtained.

c) in order to withdraw from a course-but the signature of the professor is not required.

2. Students must register for second term half-courses in the Winter Session in September. Students are permitted to add a second term half-course, with the Instructor's permission, until Jan. 25.

3. Students are urged to consult the academic calendar at the beginning of this book to acquaint themselves with the dates by which courses may be added or dropped.

## **Counselling**

Students are reminded of the many sources of information and advice available to them: the members of the Faculty (particularly their Faculty Advisers), the Student Services Office (S418, phone 284-3292) and the Office of the Associate Dean and Registrar (4th level Science Wing — phone 284-3300 or 284-3127).

## **Fees**

Fees for the 1973-74 session had not been established at the time of writing.

Fees schedules, along with complete information about payment of fees will be mailed to each student.

## Course Selection and Programmes of Study

1. Students are advised to register in at least one A-level course in each of at least two Divisions within the first ten courses selected.
2. Students should attempt to arrange their programmes so as to include advanced work in some area based on early studies. This can be done by registering in at least two C-level courses in the first fifteen courses and in at least four C-level courses in the first twenty courses.
3. Students are encouraged to include in their programme of study some instruction outside of formal courses. Where appropriate, students should include in their degree programme an Individual Study Project, equivalent to at least one half-course, and related to their other studies.

## Certification of Programmes on Transcripts

If a student has completed a programme satisfying a predefined pattern as stated in the Calendar, he or she can arrange to have certification of the programme entered on the transcript by application to the appropriate Divisional office. A student can also request certification of a programme not predefined in the Calendar; in this case the student should apply to the Curriculum Committee through the Office of the Associate Dean and Registrar to have an appropriate form of words added to the transcript. Alternatively, students may elect to choose a programme not predefined in the Calendar without requesting certification.

## Requirements for Standing

Students of Scarborough College are permitted to proceed towards a degree at a rate of their own choosing except that a maximum of six full courses can be taken in the winter session for credit, and a maximum of two full courses in the summer session. The usual maximum course load for a student in the winter session is five full courses, although a 5½ or 6 course load is permitted if the student feels it to be necessary to his or her programme. Each student plans his or her own programme by combining together any number of courses or half-courses up to the maximum stated above subject only to the following:

- (a) All stated prerequisite and corequisite requirements shall be satisfied.
- (b) Any two half-courses are equivalent to one full course; they may be from different disciplines.

### Fifteen-Credit Programme and Requirements for the Fifteen-Credit Degree

The requirements for the degree are presently being reviewed and will be re-written in a form appropriate for an academic programme which permits students to proceed toward a degree at a rate of their own choosing. Please contact the Office of the Associate Dean and Registrar for further information.

### Twenty-Credit Programme and Requirements for the Twenty-Credit Degree

The requirements for the degree are presently being reviewed and will be re-written in a form appropriate for an academic programme which permits students to proceed toward a degree at a rate of their choosing. Please contact the Office of the Associate Dean and Registrar for further information.

## Probation, Suspension and Refusal of Further Registration in the College

1. A student will be placed on probation if:
  - (a) he or she fails two or more courses in any session.

OR

  - (b) at the end of any session (Winter or Summer) in which the fourth course is attempted, the student has obtained a grade of C (or higher) in fewer than 50% of his or her course attempts since beginning studies leading to the degree. Under these circumstances the student will be warned that he or she must gain the required 50% of C's by the end of the next comparable academic session, or, in the case where that is impossible, must obtain a C (or better) in any course attempted until such time as the 50% requirement has been satisfied. In assessing the student's status at the end of the next comparable academic session, all courses attempted in the session will be counted as well as those courses from previous sessions in which the student has standing.

OR

  - (c) at the end of any session (Winter or Summer) subsequent to that in which the fourth course is attempted, the student has obtained a grade of C (or higher) in fewer than 50% of the courses attempted during the session, plus those from previous sessions in which the student has standing. Under these circumstances the student will be warned that he or she must gain the required 50% of C's by the end of the next comparable academic session, or, in the case where that is impossible, must obtain a C (or higher) in any course attempted until such time as the 50% requirement has been satisfied. In assessing the student's status at the end of the next comparable academic session, all courses attempted in the session will be counted as well as those courses in which the student has standing from previous sessions.
2. A student will be suspended from the College for one calendar year if:
  - (a) while on probation he or she fails two or more courses, or
  - (b) he or she does not (re-)gain the required 50% of C's within the specified period on probation.
3. A student will be suspended from the College for three calendar years if:
  - (a) he or she fails six courses

- (b) he or she fails to satisfy the requirements for a three-year degree in his first twenty attempts
  - (c) while on probation a second time he or she
    - (i) fails two or more courses, or
    - (ii) does not regain the required 50% of C's
  - (d) after return from a one-year suspension he or she
    - (i) fails two or more courses in any session, or
    - (ii) fails to recover the required 50% of C's by the end of the session, or, in the case where that is impossible, fails to obtain a C (or higher) in any course attempted until such time as the 50% requirement has been satisfied.
4. 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 courses which he has not previously attempted. If he or she obtains an average grade of B in the two courses, and not less than C in either, he or she will retain credit for these and for all courses in which he or she was previously successful, and he or she may re-enrol to complete the remaining courses required for the degree on the condition that he or she records no failures. A failure in a course after return from a three-year suspension, or failure to obtain the specified level of performance in the first two courses attempted after such a suspension, will result in refusal of further registration in the College.
5. A Special Student whose record is unsatisfactory may be refused further registration in the College.

## General Regulations for Standing

### (a) The Winter Session

- (i) A student in attendance at University for the first time may withdraw from a first term course until October 15, from a year course until February 1, and from a second term course until February 1.
- (ii) All other students may withdraw from a first term course until October 15, from a year course until November 15, and from a second term course until February 1.
- (iii) A student may withdraw from the College without academic penalty up to February 1. However, if the student were to withdraw before the end of the first term but after Oct. 15, failure would be noted in any first term course. If the student were to withdraw after the end of the first term, credit would be retained for any first term half-courses completed and failure noted for any first term half-courses failed.

### (b) The Summer Evening Session (1973)

A student may withdraw from a first term (F) course until June 8, from a full course (Y) or an H course until June 30, and from a second term (S) course until July 27.

### (c) The Summer Day Session (1973)

A student may withdraw from an F course until July 13, from Y and H courses until August 1, and from an S course until August 3.

### Standing In A Course

The following scale of marks and grades will be used for all courses and half-courses in all years:

Marks	Grade
80% - 100%	A
70% - 79%	B
60% - 69%	C
50% - 59%	D
below 50%	Fail

In addition to the above, a final average of B+ (77-79%) may be awarded.

In the case of half-courses, standing must normally be obtained in each half-course attempted. Marks in two half-courses may not be averaged to produce standing in an equivalent whole course, except where the Division(s) concerned specify beforehand that this will be permitted for particular and stated combinations of two half-courses.

The method of arriving at a final mark for each B- or C-level course (or half-course) will be decided by the Division offering the course. The final mark in the A-level courses will normally be made up of a term mark and an examination mark, with the restriction that not less than one-third nor more than two-thirds of the final mark will be based on term work. Final examinations will normally be held in A-level courses, and requests for exemption of courses from this regulation shall be brought before the College Council.

### Aegrotat Consideration

If the ability of a student to complete a course or half-course is affected by illness or domestic problems occurring after the final date for withdrawal from the course (or half-course), a petition may be made through the Associate Dean and Registrar. If there are adequate grounds for the petition, the Division concerned will determine the status of the work done by the student and the steps, if any, that he or she must take in order to complete the course.

Such a petition must be filed on or before the last day of the relevant final examination period, together with a medical certificate which includes a statement that the candidate was examined at the time of illness, or other evidence to support the petition.

## Petitions for Exception from the Rules

In cases involving unusual circumstances students may be granted exceptions to any of the academic regulations of the College. Such petitions are considered by the College Committee on Standing. Students desiring to enter such petitions should consult the Associate Dean and Registrar, room S414-C, telephone 3124, or the Assistant Registrar (Student Affairs), room S416, telephone 3139.



## Examinations

### Attendance and Examinations

Students proceeding to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed. A student whose attendance at lectures or laboratories or whose work is deemed by the College Council to be unsatisfactory, may have his or her registration cancelled at any time by the Council.

Students may not rewrite an examination in a course in which they have standing.

### The Annual Examinations

The annual examinations are held in late April and early May; final examinations in first-term courses are held in December.

### The August Examinations

The August examinations are held in the week following the conclusion of summer session classes. They are open to students enrolled in the Summer Session and to students eligible to write supplemental or deferred examinations.

Candidates who are permitted to write supplemental or deferred examinations must submit a completed printed form of application to the Office of the Associate Dean and Registrar by July 10. After this date an additional fee of one dollar per day to a maximum penalty of \$20 must be paid. No application will be accepted after July 31. They may write these examinations at the places listed above as outside centres. Such candidates must make application for this privilege before July 10 and must pay the special fee.

Candidates for the August examinations at outside centres must notify the Office of the Associate Dean and Registrar before August 1 if they do *not* wish to write one or more of the subjects for which they applied; otherwise the fee will be forfeited.

### Supplemental Examinations

Students with standing in fewer than 4 full courses at the beginning of a given academic session may write a supplemental examination in one A-level course failed in that session if they have a term mark in that course of at least 60%. Failure in a supplemental examination will not count as a second failure.

No other students will be permitted to write supplemental examinations in A-level courses and none will be offered in B- or C-level courses.

## Academic Records

### Degrees

Students are permitted to qualify for only one degree (Bachelor of Arts or Bachelor of Science).

A student who qualifies for a Bachelor of Arts or Bachelor of Science

degree after obtaining standing in twenty full courses will graduate and receive his or her Diploma at that time unless he or she has already done so after obtaining standing in fifteen courses.

### Transcripts

Copies of a student's transcript of academic record will be issued at his request, subject to reasonable notice and a nominal copying fee. Requests should be submitted in person or by writing to the Office of the Associate Dean and Registrar, Scarborough College, 1265 Military Trail, West Hill, Ontario (telephone 284-3300).

### Checking of Marks

It is a policy of the College that no examination papers or essays will be re-tested or re-evaluated after results have been issued. Examination papers are re-read in each examination in which a mark of less than 50 percent has been assigned, and no appeal will be considered for further re-reading of such papers. Papers in which at least 50 percent has been obtained will not be re-read.

All results are carefully reviewed before being released. However, the clerical work involved in the Office of the Associate Dean and Registrar will be checked if a petition is submitted through the Associate Dean and Registrar with a fee of five dollars per course. This fee will be refunded if an error is found.

### Plagiarism-Advice for Essay Writers

Plagiarism is the act of presenting the ideas or words of another as your own. While it may be argued that few ideas are original, instructors expect students to acknowledge the sources of ideas and expressions that they use in essays. To represent them as self-created is dishonest and academically worthless.

You may quote or paraphrase another writer if he has stated an idea strikingly, as evidence to support your arguments or conclusions, or as a point against which to argue, but such borrowing should be used sparingly and always indicated in a footnote. The aim of scholarship is to develop your own ideas and research and only by trying to develop your own thoughts and arguments will you mature academically.

To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the teacher to consult your sources with ease. Failure to do so constitutes plagiarism which is subject to serious academic penalty.

## Summary of regulations of the Caput Concerning Student Discipline\*

Subject to the general regulations of the Caput of the University regarding jurisdiction in matters of discipline, the Council of University College, the governing bodies of the Federated Universities and Affiliated Colleges, and the Councils of the Faculties, Schools, and Institutions have disciplinary jurisdiction over the conduct of all students registered in these Divisions of the University in all matters of local or internal concern to the Divisions. Jurisdiction over the conduct of students while in residence regardless of the Division of the University in which they are registered is vested in the body administering the residence.

Where the appropriate body exercising disciplinary jurisdiction has found that a student of the University has engaged in conduct prejudicial to the interests of the University, the Caput may, in 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 constitution of every society or association of students in the University and all amendments to such constitutions require to be approved by the relevant University authorities. The giving of approval, and the responsibility for the programmes of student societies and associations, shall rest as follows:

- (1) With the authorities of the College, Faculty or School concerned where the membership of the student society or association is drawn from a single College, Faculty or School.
- (2) With the Board of Stewards of Hart House, where the student society or association is a Committee of Hart House and is controlled by the Board of Stewards of Hart House.
- (3) With the Caput, in the case of all other student societies and associations.

\*As of 1972-73. A committee of the Governing Council began in the fall of 1972 to examine the whole question of non-academic discipline at the University of Toronto, and it is expected that a new or significantly amended set of disciplinary structures and principles will be introduced in the session 1973-74. Inquiries should be directed to the Office of the Associate Dean and Registrar, Scarborough College, or to the Office of the Vice-President (Internal Affairs), Simcoe Hall.

## Course Descriptions Winter Session 1973-74

### Course Explanation

1. The letters 'A', 'B' and 'C' prefixed to the course numbers indicate levels of complexity and degrees of specialization, 'A' indicates an introductory course, while 'B' and 'C' indicate more advanced levels of study. Please refer to the section on Academic Regulations concerning the number of 'A', 'B' and 'C'-level courses required in each programme of study.
2. The letters 'Y', 'F', 'S' and 'H' indicate respectively Full Year, Fall Term Half, Spring Term Half and Year-Long Half Courses.

Thus, ANTA01Y reads:

ANT	— discipline designation
A	— introductory level
01	— course number
Y	— full year course

3. Supervised Reading Courses.  
Students in reading courses usually work under the direction of a staff 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 in each discipline offering supervised reading courses.
4. Supervised Research Courses.  
Students in supervised research courses usually work under the direction of a staff member with whom they meet periodically or in whose laboratory they work. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering supervised research courses.
5. Independent Study Courses.  
Students in independent study courses usually work under the direction of a staff 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.
6. PLEASE NOTE THAT WRITTEN PERMISSION FROM THE INSTRUCTOR IS THE ONLY ALTERNATIVE TO THE PRE-REQUISITES LISTED, AND MUST BE ATTACHED TO THE COURSE SELECTION FORM.

## Anthropology

Anthropology is the study (or science) of man, dealing with the origin, development and nature of man and his 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, examining man today and in the past, as part of Western Civilization 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 the differences between peoples and cultures).

Because of the vastness of its subject matter, Anthropology traditionally is 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, although the Humanities Division presents several courses in Linguistics. Students wishing to concentrate in Anthropology are advised to consult with a member of the staff, to take at least one course in each of the four subfields (as well as the ANTA01 Introduction) and to obtain as broad an academic background as possible before proceeding toward the specialization of graduate study.

Students should also consult listing under:  
NSCA03 Quaternary Environments and Man

- |   |   |
|---|---|
| <p>ANTA01Y</p> <p>Full<br/>Course</p>           | <p><b>Introduction to Anthropology</b></p> <p>An introduction to the fields of Anthropology through which the student will obtain the anthropological view of the nature and diversity of man. The first term takes up Physical and Prehistoric Anthropology concentrating on the biological basis and the evidence for the origin and growth of culture. The second term will deal with the comparative study of the family, economics, politics and religion in non-industrial societies. <i>Members of the faculty</i></p> |
| <p>ANTB01F</p> <p>Term<br/>Half-<br/>Course</p> | <p><b>Cultural Ecology</b></p> <p>A discussion of the reticulate inter-relationships of human populations differing in culture, social organization and technology and their environment, in four broad sub-areas: systems of food production, patterns of disease, ecological aspects of warfare and anthropological demography. Cases will be drawn largely, from non-industrialized societies. <i>R. Knight</i><br/><i>Prerequisites:</i> ANTA01</p>   |
| <p>ANTB02S</p> <p>Term<br/>Half-<br/>Course</p> | <p><b>Anthropological Study of Religion</b></p> <p>A cross-cultural study of systems of belief and myths concerning spiritual beings and the cosmos; of social actions, rights, and obligations arising out of man's postulated dependence on such beings; and of magic, curing, witchcraft and sorcery. <i>E. Schwimmer</i><br/><i>Prerequisites:</i> ANTA01</p>   |

- |   |   |
|---|---|
| <p>ANTB03S</p> <p>Term<br/>Half-<br/>Course</p>   | <p><b>The Americas: An Anthropological Perspective</b></p> <p>The origin and development of Native cultures in the New World, with particular emphasis upon changes due to European contact. Patterns of race in the Americas, with emphasis on Latin America. <i>R. Knight</i></p>   |
| <p>ANTB04S</p> <p>Term<br/>Half-<br/>Course</p>   | <p><b>The Canadian Indian Today</b></p> <p>Canadian Indian communities as they have developed during the last twenty-five years in isolated areas, on reserves, and in cities. The legal, political and economic position of the Indian population will be presented along with more detailed study of socio-cultural patterns in a range of communities. The comparison of Indian and certain other subcultures in Canada and consideration of the analogous positions of native peoples in certain other countries. <i>R. Knight</i><br/><i>Prerequisites:</i> ANTA01</p> |
| <p>ANTB05S</p> <p>Term<br/>Half-<br/>Course</p>   | <p><b>Social Anthropological Study of Africa</b></p> <p>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. <i>C. Hopen</i><br/><i>Prerequisites:</i> ANTA01</p>  |
| <p>ANTB06F</p> <p>Term<br/>Half-<br/>Course</p>   | <p><b>Cultures of Oceania</b></p> <p>In Oceania many small societies with highly diverse cultures have developed in comparative isolation. The course will survey their kinship structures, economics, political systems, religions and art, drawing from an extensive literature much of which, because of its theoretical importance, is basic for the study of general Anthropology. <i>E. Schwimmer</i></p>   |
| <p>[ANTB07S]</p> <p>Term<br/>Half-<br/>Course</p> | <p><b>Comparative Slavery]</b></p> <p>Course not offered in 1973-74.</p>  |
| <p>ANTB08F</p> <p>Term<br/>Half-<br/>Course</p>   | <p><b>Anthropology of Development</b></p> <p>An analysis of problems of development and underdevelopment in the world, including the problems connected with "Secondary Development" in industry and politics. <i>Ishwaran</i></p>  |
| <p>[ANTB09S]</p> <p>Term</p>                      | <p><b>History of Ethnological Theory]</b></p> <p>Course not offered in 1973-74.</p>   |

- Half-Course      *Prerequisites:* ANTA01
- ANTB11S**      **Man in the Pleistocene**  
The evolution of man in the Pleistocene. A review of the evidence and chronological framework for man's cultural development during his first two million years.  
*Prerequisites:* ANTA01
- [**ANTB12S**      **Man in the Holocene**]  
Course not offered in 1973-74.
- Term  
Half-Course
- ANTB13Y**      **Methods and Principles of Archaeology**  
Techniques of data collection and analysis. The course emphasizes learning by doing, with fall weekend excavations at local sites. In the second semester, a major paper is prepared on actual artifactual material. *M. Latta*  
*Prerequisites:* ANTA01; permission of instructor
- ANTB14F**      **Human Evolution**  
An analysis of the phylogeny of man. The issues and controversies that form the theoretical framework to the understanding of the 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. *L. Williams*  
*Prerequisites:* ANTA01, ANTB15 or BIOB14
- ANTB15Y**      **Introduction to Physical Anthropology**  
Introduction to Physical Anthropology surveys man's place in nature: his 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. Three hours of laboratory per week acquaints the student with the methods and materials utilized by the Physical Anthropologist. *G. Ellis*  
*Prerequisites:* ANTA01 or ANTB14
- ANTB17S**      **Complex Societies** *NOT OFFERED 73-74*  
An examination of the different forms of social structure and cultural variation in modern complex societies, as well as analysis of how they change.  
*Prerequisites:* ANTA01
- Term  
Half-Course

- [**ANTB18F**      **Cultural Evolution**]  
Course not offered in 1973-74.

Term  
Half-Course

- ANTB19F**      **Introduction to Political and Economic Anthropology** *NOT OFFERED 73-74*  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ANTA02] A general survey of the problems of production, exchange and distribution in Anthropology, and the role of political systems in a largely "development" framework.  
*Prerequisites:* ANTA01

Term  
Half-Course

- ANTB20Y**      **Introduction to Social Organization**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ANTA03] "Kinship is to Anthropology what logic is to Philosophy or the nude is to art; it is the basic discipline of the subject." (Fox). The purpose of the course is to teach something about the species *Homo sapiens* by analyzing variations in social structure. *C. Hopen*  
*Prerequisites:* ANTA01

Full  
Course

- ANTB21F**      **Cultures of North America**  
A survey of indigenous cultures as they developed in North America north of Mexico before, during and after European expansion. The material will be largely drawn from a select sample of Indian societies as described in the ethnographic present (3 to 300 years ago). *R. Knight*  
*Prerequisites:* ANTA01

Term  
Half-Course

- ANTB22Y**      **Primate Behaviour**  
A general review of primate behaviour in its ecological setting. *F. Burton*  
*Prerequisites:* ANTA01 or PSYA01 or BIOA03

Full  
Course

- ANTB23Y**      **Comparative Mythology**  
This interdisciplinary course deals with the nature of myth from the viewpoint(s) of Anthropology, Philosophy, Linguistics, Psychology and comparative literature. It also deals with myth as it is generated in modern society and in a political context. *E. Schwimmer*

Full  
Course

- ANTB24Y**      **Comparative Study of Group Cultures**  
This will be a study of Task groups, households, teams, crews, committees, councils, etc. in reference to their control of energy, information and power in communities. *T. McFeat*  
*Prerequisites:* ANTA01 or SOCA01

Full  
Course

- ANTB25Y**      **Introduction to North American Prehistory**  
An overview of New World prehistory with an emphasis on cultural developments in North America. It will deal with the first men in the New World, the development of hunting bands the "New World

Full  
Course



Neolithic", and finally the development of civilization. *M. Latta*  
*Prerequisites:* ANTA01

**ANTC02S**

**Systems of Thought** *offered in 1973-74 only*  
One universal characteristic of men is to seek an explanation of the universe they perceive — to reduce it to some form of order and system. It is a matter of personal faith whether this cognitive activity is viewed as occurring under divine inspiration. It is for the anthropologist to apprehend the system of thought prevailing in the cultures he studies and to relate them to social, political and economic phenomena. It is also fruitful to relate different systems of thought to each other so as to obtain a comparative perspective consistent with the facts of ecology and culture history. This course surveys the anthropological work done on these questions, especially since 1960. Some knowledge of anthropology will be assumed. Students will be expected to familiarize themselves with a few systems of thought evolved by non-literate societies. *E. Schwimmer*  
*Prerequisites:* ANTB02; permission of instructor

**ANTC03F**

**Advanced Reading and Research in Anthropology**  
See Calendar Page 31.  
*Prerequisites:* Permission of instructor

Term  
Half-  
Course

**ANTC04S**

**Advanced Reading and Research in Anthropology**  
See Calendar Page 31.  
*Prerequisites:* Permission of instructor

Term  
Half-  
Course

**[ANTC05S]**

**Canadian Cultures]**  
Course not offered in 1973-74.  
*Prerequisites:* One B-level course in Anthropology

Term  
Half-  
Course

**[ANTC06S]**

**Problems in Human Evolution]**  
Course not offered in 1973-74.  
*Prerequisites:* ANTB14 or ANTB15

Term  
Half-  
Course

**[ANTC07F]**

**The Social Anthropology of Pastoral Nomadic Societies]**  
Course not offered in 1973-74.  
*Prerequisites:* One B-level course in Anthropology

Term  
Half-  
Course

ANTC08S.

## Astronomy

Astronomy is one of the most challenging and 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 the earth.

The advent of the "space age" has led to an increasing impact of astronomical discoveries both on other fields of Science, and on various aspects of public life. The full extent of astronomical topics is covered at an introductory level in ASTA02 (for Science students) and ASTA03 (for non-Science students). Selected topics in Astrophysics are dealt with at a more advanced level in ASTB01 and ASTC01, while ASTC10 presents, in detail, Einstein's general theory of relativity and some of its applications.

**XASTA02Y**

Full  
Course

**A Survey of Astronomy and Elementary Astrophysics**

A survey course covering all aspects of modern Astronomy, and designed for students who are either taking a science programme or who have a background of Grade 13 Physics and Mathematics. The following topics will be covered: the solar system in detail, including the most recent space vehicle investigations; theories of the evolution of stars; radio and optical studies of the Milky Way; the discovery and significance of molecules in space; external galaxies; radio astronomy; radar astronomy; quasars and their significance; cosmology; pulsars; current satellite-born infrared, ultra-violet and x-ray observations, and some recent discoveries by these new observational methods. *P.G. Martin*

*Prerequisites:* Grade 13 Functions and Relations; Grade 13 Physics

**XASTA03Y**

Full  
Course

**Astronomy: Its History and Significance**

A course designed primarily for students with a non-science background which contains a description of the extra-terrestrial universe and of the methods used (past and present) to explore it. In addition to a survey of basic Astronomy, this course will also emphasize the history of man's evolving view of the universe. In the latter part of the course some possible effects of the space effort on contemporary society at the individual, national and international level will be analysed. At the beginning of the course the early ideas on the cosmos will be discussed, from the Egyptian and Greek ideas up to the time of the Renaissance. The interrelation between ideas and discoveries about the universe and important historical epochs such as the Reformation, the Industrial Revolution, and 20th century technology will be discussed. These aspects of Astronomy, both its history and its present impact, will be combined with a description of all aspects of Astronomy including the latest discoveries of radio and satellite based Astronomy. A minimum of Mathematics will be used and a number of essays connected with the topics above will be required for term work. *P.P. Kronberg*

- ASTB01Y Topics in Astrophysics**  
This course stresses the application of Physics and Mathematics to astronomical problems in five main areas: Physics of the Solar System; Radiative Astrophysics; The Structure and Evolution of Stars; The Structure and Evolution of the Solar System; The Structure and Evolution of the Universe. *R.C. Roeder*  
*Prerequisites:* PHYA01, MATA01 or MATA26 or MATA55  
*Corequisites:* MATB41
- ASTC01H Readings in Astrophysics**  
See Calendar Page 31.  
*Prerequisites:* ASTB01
- ASTC10Y Relativity and Cosmology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHYC10] 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.  
*Prerequisites:* MATB46, PHYC03 or PHYB13

## Biological Sciences

The study of plants and animals (including man) has developed rapidly as an experimental science since the latter part of the nineteenth century and particularly in the last decade. Modern Biology includes the study of both structure and function of all living organisms, involving the application of Chemistry, Physics and Mathematics. In addition to their fundamental significance, studies of plant form and function have many practical applications, such as the development of improved crops, drugs, and extracts. The inter-relationships of plants, animals, and non-living influences — the discipline of ecology — is central to many of the problems confronting mankind.

A simple guide to the recommended course patterns in Biology and related subjects is available at both the office of the Associate Dean and Registrar and the office of the Chairman, Life Sciences (284-3291).

Students should also consult listing under:

- NSCA02 Introduction to Natural Science: The Biological Sciences  
NSCA03 Quaternary Environments and Man  
NSCB01 Behaviour Biology: Seminar in Psychobiology

- X BIOA03Y Introductory Biology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS BIOA01 AND BIOA02] 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. *M. Filosa*

## **X BIOB02Y**

Full  
Course

### Basic Microbiology

The general properties of bacteria, their structure, function and relationship to man, employing selected organisms to demonstrate their significance in industry and the health sciences. The latter part of the course presents a survey of bacterial and animal viruses, rickettsias and fungi. *V. V. Kingsley*

*Prerequisites:* BIOA01 or BIOA02 or BIOA03

## **BIOB03S**

Term  
Half-  
Course

### Ecology and Physiology of Algae

A lecture and laboratory course on the physiology of algae. Emphasis will be placed on factors which affect the occurrence, distribution and seasonal fluctuations of algae in freshwater and marine habitats. *C. Sparling*

*Prerequisites:* BIOA03

*Corequisites:* BIOB15 is recommended

## **X BIOB05Y**

Full  
Course

### Genetics

A lecture and laboratory course in cytogenetics and the genetics of bacteria, fungi and *Drosophila*. *M. Filosa*

*Prerequisites:* BIOA01 or BIOA02 or BIOA03

## **X BIOB06Y**

Full  
Course

### Plant Physiology

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

*Prerequisites:* BIOA01 or BIOA03

## **BIOB08Y**

Full  
Course

### Invertebrate Zoology

A lecture-laboratory course dealing with the anatomy, taxonomy and evolution of invertebrate animals, from protozoa to proto-chordata, with special reference to the parasites of humans. *F. Urquhart*

## **BIOB11Y**

Full  
Course

### Animal Populations and Evolution

A study of the process of heritable changes in animal populations with special regard to population genetics, population dynamics and species diversity. *I.M. Campbell*

*Corequisites:* BIOB05

## **BIOB12Y**

### Fundamentals of Ecology

A lecture and laboratory course, with some field work, on the

Full Course relationship between organisms and their environment, with emphasis on terrestrial ecosystems. *M. Mantuani*

X BIOB13Y **Plant Structure and Development**  
A lecture and laboratory course dealing with the structure and development of cells, tissues and organs in seed plants. Each student will be required to do an individual microtechnique project. *R. Dengler*

BIOB15Y **Aquatic Systems**  
A lecture course with optional topical seminars and/or field work on the ecology of ponds, lakes and rivers, with special reference to energy transfer in these ecosystems. *M. Mantuani; C. Sparling*  
*Prerequisites:* BIOA01 or BIOA02 or BIOA03  
*Corequisites:* BIOB12 recommended

X BIOB17Y **General and Comparative Physiology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS BIOB09] 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. Much of the comparative material deals with invertebrate forms. *C. Govind*  
*Prerequisites:* BIOA01 or BIOA02 or BIOA03  
*Corequisites:* CHMB05, BIOB18F recommended but not essential

BIOB18F **Cell Metabolism**  
A lecture and laboratory course dealing with the function of cells. It will include aspects of enzymology, respiratory and photo-synthetic metabolism and the control and regulation of metabolism. *G. Israelstam*  
*Prerequisites:* BIOA01 or BIOA03; CHMA01  
*Corequisites:* CHMB05 is recommended but not required

BIOB19S **Biology of Macromolecules**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS BIOB01] The basic concepts of the molecular biology of the gene – key experimental observations. Main topics will be mechanisms of gene replication and regulation of gene activity in higher and lower organisms. Students will receive laboratory experience in the use of a range of molecular biology techniques. *I. Brown*  
*Prerequisites:* BIOA01 or BIOA02 or BIOA03  
*Corequisites:* BIOB05 recommended but not essential

BIOB20F **Cell Ultrastructure**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS BIOB04] Current concepts in animal and plant cell ultrastructure,

Half-Course with particular reference to the interpretation of cell components as they appear in electron micrographs. *R. Dengler; J. Youson*  
*Prerequisites:* BIOB16 or BIOB13

BIOB21Y **Marine Biology**  
A lecture-laboratory course dealing with Marine Biology presented at the Huntsman Marine Laboratory, St. Andrews, New Brunswick. Topics covered: Oceanography, Plankton Biology; seabirds; Fisheries; Benthos Ecosystems; Organic Carbon Cycling; Ecology of Rocky Shores; Seaweeds; Physiology of marine animals. *F. Urquhart*  
*Prerequisites:* BIOA03; BIOB08

X BIOB22Y **Comparative Vertebrate Morphogenesis**  
[MAY NOT BE TAKEN IN THE SAME DEGREE PROGRAMME AS BIOB16 AND BIOB7] The structure of vertebrate body systems with reference to their embryological development and evolution. This course compares the development of organ systems of representative vertebrates from the fertilized egg up to and including the adult individual. *J. Youson; C. Govind*

BIOB23Y **Developmental Biology**  
[NOT TO BE TAKEN IN SAME DEGREE PROGRAMME AS BIOB07] The study of the 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 multi-cellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. *I. Brown; R. Dengler; M. Filosa*  
*Prerequisites:* BIOA01 or BIOA02 or BIOA03

BIOB24Y **Plant Kingdom**  
Course not offered in 1973-74. A lecture and laboratory course on structure, reproduction and phylogeny in the major groups of living and extinct plants. *R. Dengler*

BIOB25S **Structure of Bacteria** NOT OFFERED 73-74.  
The morphology and ultrastructure of bacteria. Practical experience is given in various techniques used in the elucidation of bacterial structure. *V.V. Kingsley*  
*Prerequisites:* BIOB02  
*Corequisites:* CHMB05, BIOB20 recommended

BIOB26F **Field Course in Aquatic Biology** NOT OFFERED.  
Physical, chemical and biological aspects of various aquatic habitats, will be studied intensively in a 2 week period of laboratory and field work, supplemented by lectures and discussion groups. Limited enrolment – 20. *M. Mantuani, C. Sparling*

*Prerequisites:* BIOA03

*Corequisites:* BIOB15

X BIOB27Y

Full  
Course

**Comparative Vertebrate Histology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS BIOB16 OR BIOB04] 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 in structure of body systems will be discussed in relation to development, evolution, and function. *J. Youson*

*Corequisites:* BIOB22 and BIOB20 are highly recommended as corequisites for students with no prior experience in Biology

BIOB28F . BIOB29S

BIOC01Y

Full  
Course

**Supervised Study in Biology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS BIOC01F AND BIOC01S] 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. *Members of the Faculty*

*Prerequisites:* Satisfactory completion of 15 year-course equivalents, of which at least four must be Biological Science B-level courses

BIOC03Y

Full  
Course

**Advanced Cell Metabolism**  
A seminar and laboratory course on current research in cell metabolism. *G. Israelstam*  
*Prerequisites:* Satisfactory completion of 15 year-course equivalent, including BIOB18

BIOC04Y

Full  
Course

**Invertebrate Ecology**  
An advanced field-laboratory-seminar course dealing with invertebrate animals in relation to their environment. Field studies will include both terrestrial and aquatic (freshwater and marine) forms, at laboratories in both northern and tropical areas. \* *F. Urquhart*  
*Prerequisites:* Satisfactory completion of 15 year-course equivalents, including BIOB08; permission of instructor

\*Applications for registration in this course must be received on or before July 1 of the year it will be taken, to arrange for field studies. Students wishing to study tropical marine forms should have a knowledge of skin diving using basic equipment, for which a course is offered at Scarborough College.

X BIOC05S

Term  
Half-  
Course

**Advances in Developmental Biology**  
A seminar series on current topics in developmental biology. *I. Brown; R. Dengler; M. Filosa; J. Youson*  
*Prerequisites:* At least one of BIOB07, BIOB13, BIOB16

BIOC06Y

Full  
Course

**Introductory Biochemistry**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS CHMC06] A lecture course in general Biochemistry equivalent to BCH320 given on the St. George Campus.  
*Prerequisites:* BIOA01 or BIOA02 or BIOA03; CHMB05

## Canadian Studies

[CASA01Y

**Introduction to Canadian Studies]**  
Course not offered in 1973-74. Representatives from various disciplines will take part in discussion of Canada as a distinctive unit from geographic sociological, politico-economic, literary and other points of view.

## Chemistry

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 CHMA01 and must be taken by those who wish to take further Chemistry courses and should be taken by those who require Chemistry for another science.

Completion of CHMA01 permits students to take any of the B-level courses in Chemistry. These are divided according to the following sub-disciplines: Inorganic Chemistry (CHMB01), Analytical Chemistry (CHMB02), Organic Chemistry (CHMB05) and Physical Chemistry (CHMB03, CHMB04). Thereafter, one can proceed to the following advanced-level courses: CHMC01 (Inorganic), CHMC02 (Physical), CHMC03 (Organic) and CHMC06 (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, CHMB01, CHMC01	430
CHMA01, CHMB03, CHMB04, CHMC02	420
CHMA01, CHMB05, CHMC03	440 (except 447)

While courses in Physics do not appear among the prerequisites or corequisites of 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, MATA55 or MATA26 and PHYA01 or PHYA02.

The following courses are also of interest to students in Chemistry and are particularly recommended to students whose interests tend to Physical or Theoretical Chemistry: MATA58, MATA40, MATA45, MATB46, MATB51, MATB53, MATB56, PHYB01, PHYB04, PHYB05, PHYC01.

X CHMA01Y

Full  
Course

**General Chemistry**  
Chemical equilibrium in the gas phase and in solution; states of matter and equations of state; first and second laws of thermodynamics, thermochemistry; introduction to kinetic theory of gases and reaction kinetics; nuclear chemistry, atomic and molecular



structure, ionic solids; bonding in organic compounds. *Members of the faculty*

*Prerequisites:* Grade 13 Chemistry, or Grade 12 Chemistry and permission of instructor

*Corequisites:* MATA26 or MATA55

#### CHMB01Y

##### Inorganic Chemistry I

Full  
Course

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. *R.O. Harris*

*Prerequisites:* CHMA01

#### CHMB02Y

##### Analytical Chemistry

Full  
Course

Equilibrium and analysis: volumetric analysis; acid-base, precipitation and complexation titrations. Electrochemistry: oxidation-reduction equilibria and redox titrations, potentiometric (pH) titrations. Chromatography, ion exchange. Gravimetric analysis. Absorption spectroscopy. Instrumental techniques. Qualitative analysis.

*Prerequisites:* CHMA01

#### ✓ CHMB03Y

##### Physical Chemistry I

Full  
Course

A survey of spectroscopy and its application to the analysis of the structure of atoms and small molecules, the laws of thermodynamics, their experimental origin and molecular basis; reaction kinetics and its application to the analysis of reaction mechanisms. Applications of these concepts in various branches of Chemistry and Biology. *R.B. Caton*

*Prerequisites:* CHMA01; MATA26 or MATA55

#### ✗ CHMB04S

##### Quantum Chemistry

Term  
Half-  
Course

Introduction to quantum mechanics and its application to the formulation of theories of atomic and molecular structure and spectroscopy. *R.B. Caton*

*Prerequisites:* CHMA02; MATA26 or MATA55

*Corequisites:* CHMB03; MATB41 or MATB55

#### ✗ CHMB05Y

##### Organic Chemistry I

Full  
Course

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. *T.R. Lynch*

*Corequisites:* CHMA01

#### ✗ CHMC01Y

##### Inorganic Chemistry II

Full

A study of transition metal Chemistry including oxidation state diagrams; atomic structure and energy levels; crystal field theory;

Course

molecular orbital theory; a thermochemical and structural survey of divalent ions, trivalent and higher oxidation states, and low oxidation states, (i.e. carbonyls, nitrosyls, etc.) *A. Walker*

*Prerequisites:* CHMB01

*Corequisites:* CHMB03

#### ✗ CHMC02Y

##### Physical Chemistry II

Full  
Course

Basic principles in classical and quantum statistical mechanics. Statistical thermodynamics and its application to chemical problems. Theory of chemical kinetics. Theory of solutions. Surface and colloid chemistry. Photochemistry. Polymer chemistry.

*Prerequisites:* CHMB03

*Corequisites:* MATB41 or MATB50, MATB55

#### ✗ CHMC03Y

##### Organic Chemistry II

Full  
Course

[MAY NOT BE TAKEN IN THE SAME DEGREE PROGRAMME AS CHM347 (ST. GEORGE). THIS COURSE SERVES AS A PREREQUISITE FOR CHM447 ONLY WITH THE CONSENT OF THE INSTRUCTOR] Introduction to the structure, synthesis, and reactivity of organic compounds of biological importance. Applications of spectroscopy to structure determination. Further consideration 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. *T.T. Tidwell*

*Prerequisites:* CHMB05

#### CHMC06Y

##### Introductory Biochemistry

Full  
Course

[MAY NOT BE TAKEN IN THE SAME DEGREE PROGRAMME AS BIOC06] (Equivalent to BCH320 given on the St. George Campus). See listing under Biology (BIOC06Y).

*Prerequisites:* BIOA01 or BIOA02 or BIOA03; CHMB05

## Classical Studies

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. For information about individual courses and programmes students are urged to contact members of the faculty. Professor J.N. Grant will be happy to meet with prospective students.

The following arrangements of courses are recommended as forming coherent programmes in Classical Studies.

## Greek Studies

Core programme: three full courses in the Greek language (or their equivalent in half courses); GRHB01  
 Other courses chosen from: GRHB02, GRHB21, GRHB22, GRHB24  
 CLAB02, CLAB09, CLAB21, CLAB23  
 FARB21  
 HUMB21, HUMB22, HUMB24, HUMB25, HUMB41  
 LINB04  
 PHLB65, PHLB66

## Roman Studies

Core programme: three full courses in the Latin language (or their equivalent in half courses); GRHB03  
 Other courses chosen from: GRHB02, GRHB23, GRHB24  
 CLAB02, CLAB03, CLAB09, CLAB21, CLAB23  
 HUMB21, HUMB23, HUMB24  
 LINB04

## Greek and Roman Studies

Core programme: three full courses (or equivalent) in each of Latin and Greek; GRHB01, GRHB03  
 Other courses chosen from the lists above.

Students should consult listings under:

HUMB23 The Age of Augustus  
 HUMB24 Orpheus: The Quest for Beauty  
 HUMB25 The Age of Homer  
 HUMB41 Women in Ancient Greece

## Classics

[CLAB02Y Greek and Roman Tragedy]  
 Course not offered in 1973-74. Offered in Summer of 1973 only.  
*Aeschylus, Sophocles, Euripides, Seneca.*  
 Full Course

[CLAB03F Roman Love Poetry]  
 Course not offered in 1973-74. Offered in Summer of 1973 only.  
*Catullus, Propertius and Ovid.*  
 Term Half-Course

CLAB09F Greek and Roman Comedy  
 A selection of comedies from the works of Aristophanes, Menander, Plautus and Terence will be read and discussed. Topics will include the nature and purpose of comedy, the origins and development of Greek Comedy, and the contributions of Plautus and Terence to the genre. *J. Grant*  
 Term Half-Course

[CLAB21Y Greek and Roman Religion]  
 Course not offered in 1973-74.

Full Course

CLAB23S Christianity in the Graeco-Roman World  
 An examination of the relationship between Christianity with its Jewish origins and the Roman empire. *E. Irwin*  
 Term Half-Course

## Greek and Roman History

X GRHB01Y History of Greece from 2000 B.C. to the Death of Alexander  
 As far as possible, this course will be studied through Greek authors (in translation). Principal topics include: The World of Homer, past and present; Evolution of Democracy; Sparta, ideal and reality; Athens and Democratic Imperialism; Achievements of Alexander. *A. Boddington*  
 Full Course

GRHB02Y Greek and Roman History from the Death of Alexander to the Gracchi  
 A study of the emergence and evolution of the Hellenistic Monarchies after the death of Alexander, the development of Rome as a "World Power", and the interaction of the Greek and Roman Worlds.  
 Full Course

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

[GRHB21Y Greek Democracy]  
 Course not offered in 1973-74.  
*Prerequisites:* GRHB01  
 Full Course

X GRHB22Y The Greeks Overseas  
 The interaction of the Greeks with other races, and its impact on Greek culture; the role of the sea, in war and trade, in the history of Greece. *A. Boddington*  
*Prerequisites:* GRHB01 or permission of instructor  
 Full Course

[GRHB23Y **Studies in Roman History]**  
 Course not offered in 1973-74. The choice of subjects for study will be governed by the interests of the students and faculty involved.

Full  
 Course

[GRHB24F **Ancient Historiography]**  
 Course not offered in 1973-74.

Term  
 Half-  
 Course

Greek

X GRKA01Y **Introductory Greek**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS GRK001] This course is based on a structural approach to language learning. The language laboratory will be used. Readings of Greek prose will begin early in the course. *E. Irwin*

Full  
 Course

GRKB01F **Plato *Apology*, Lysias *In Eratosthenem***  
 In addition to the two texts to be read, there will be accompanying exercises to assist the student in further study of the Greek language.  
*I. McDonald*  
*Prerequisites:* Grade 13 Greek or GRKA01 or GRK001

Term  
 Half-  
 Course

GRKB11S **Homer *Odyssey***  
 A reading of three books of the *Odyssey* with discussion of the nature and literary qualities of Homeric epic. *M. Shaw*  
*Prerequisites:* GRKB01; HUMB17

Term  
 Half-  
 Course

[GRKB12S **Herodotus]**  
 Course not offered in 1973-74.  
*Prerequisites:* GRKB01

Term  
 Half-  
 Course

GRKB30F **Supervised Reading**  
 See Calendar, Page 31. *E. Irwin*  
*Prerequisites:* GRKB11 or GRKB12

GRKB31F  
 GRKB32F  
 GRKB33F  
 GRKB34F

Term  
 Half-  
 Courses

GRKB35S **Supervised Reading**  
 See Calendar, Page 31. *E. Irwin*  
*Prerequisites:* GRKB11 or GRKB12

Term  
 Half-  
 Courses

Latin

X LATA01Y **Introductory Latin**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS LAT001] 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. On completion of the course a student will be equipped to proceed to LATB01 or LATB02. *J. Grant*

Full  
 Course

LATB01F **Catullus**  
 A selection of the works of Catullus will be read. The influences which affected Catullus, and his contribution to Latin poetry will be considered. *I. McDonald*  
*Prerequisites:* Grade 13 Latin or LAT001 or LATA01

Term  
 Half-  
 Course

LATB02S **Catiline**  
 Sallust's *Catilinarian Conspiracy* and selections from Cicero's orations *In Catilinam* will be read. The texts will provide an opportunity of comparing two accounts of the same events from both a literary and historical viewpoint. *I. McDonald*  
*Prerequisites:* Grade 13 Latin or LAT001 or LATA01

Term  
 Half-  
 Course

[LATB22F **Horace]**  
 Course not offered in 1973-74.  
*Prerequisites:* LATB01

Term  
 Half-  
 Course

LATB30F **Supervised Reading**  
 See Calendar, Page 31. *J. Grant*  
*Prerequisites:* LATB01 or LATB02

LATB31F  
 LATB32F  
 LATB33F  
 LATB34F

Term  
 Half-  
 Courses

LATB35S Supervised Reading  
 LATB36S See Calendar, Page 31. *J. McDonald*  
 LATB37S Prerequisites: LATB01 or LATB02  
 LATB38S  
 LATB39S

Term  
 Half-  
 Course

LATC01F Independent Studies  
 See Calendar, Page 31. *J. Warden*  
 Prerequisites: At least two of LATB22, LATB30-34, LATB35-39;  
 permission of instructor

LATC02S Independent Studies  
 See Calendar, Page 31. *J. Warden*  
 Prerequisites: At least two of LATB22, LATB30-34, LATB35-39;  
 permission of instructor

## Commerce

This is the first year in which the College has offered a substantial number of courses in Commerce. Additional courses may be added in future years although there is no guarantee that a full program will be available in the immediate future.

Courses in Commerce will help students to develop the analytical abilities needed for solving problems and making decisions in business and government and for participating in and contributing to our society in general. The courses can be used as a foundation on which to build management and professional skills. The student is advised to supplement the Commerce courses with a course in Calculus and some basic courses in Economics — especially ECOA01, ECOA02, ECOB01, ECOB02, and ECOC08.

COMA01Y Financial Accounting  
 [MAY NOT BE TAKEN IN THE SAME DEGREE PROGRAMME AS COM100] 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.

COMB21F Management Accounting  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS COM221] This course introduces management control through case discussions and a computerized management game, and examines the relationship between cost, volume and profit, the elements of cost,

overhead allocation, job order costs, process costs (including the problems raised by joint products and by-products), budgeting and predetermined costs (estimated and standard costs).  
 Prerequisites: COMA01 or COM100

## COMB22S

Term  
 Half-  
 Course

Information Systems and Control  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS COM222] The course includes information system theory, control theory and practice, relevant costs, responsibility accounting, and a survey of selected management science techniques (with an introduction to linear programming, correlation analysis, and capital budgeting). Through case discussions, interrelationships between information and control systems, managerial style and human behaviour are established.  
 Prerequisites: COMB21 or COM221

## COMB25Y

Full  
 Course

Managerial Economics  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ECOB25] This course focuses on the theory and operation of the firm. Linear and non-linear programming are studied as tools in the firm's decision process. Topics covered include: cost estimation, analysis for pricing decisions, inventory policy, capital and investment theory, analysis of risk and uncertainty.

## COMC02Y

Full  
 Course

Corporation Finance  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ECOC02] 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.  
 Prerequisites: ECOB01

## Development Studies

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 of adaption and resistance to new ways of life. Political scientists seek to uncover the pernicious 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.

Descriptions of the various courses are provided in the sections of this Calendar set aside for each discipline.

ANTB03	The Americas: An Anthropological Perspective
ANTB08	Anthropology of Development
ECOB09	Economic Development
GGRB08	The Geography of Underdeveloped Areas
GGRC09	Canada North of Sixty
HISB22	British Imperialism in Asia and Africa
POLB12	Politics and Society in Independent Africa
POLB17	The Chinese Political System
POLC05	New Nations in World Politics (not offered in 1973-74)
POLC10	Modernization and Revolution
SOCB14	Comparative Social Structure
SOCB16	Social Change
SOCB17	Social Change in Latin America
SOSB02	The Indian Sub-Continent: Contemporary Problems (not offered in 1973-74)

## Drama

Scarborough College offers a number of courses in Drama in various disciplines. It is hoped in subsequent years to add further courses in theatre history and practical work until a full Drama programme is in operation. Students are referred to drama courses listed under:

Classical Studies  
English  
French  
German  
Humanities  
Russian  
Spanish

## DRAB01Y Drama Seminar and Workshop

Full  
Course

The course consisting of two independent parts, one theoretical, the other practical, will comprise a two-hour seminar and two hours of practical workshop each week. It will discuss the drama of various periods in terms of the non-literary elements of theatre, dealing with theatrical conventions, acting styles, and methods of production from classical times to the present. The workshop will develop a full-scale theatrical production. Limited enrolment: 25. *M. Schonberg*

*Prerequisites:* Permission of instructor

## DRAB02Y The Directors' Theatre

Full  
Course

The course will explore the work of famous theatrical companies of the 19th and 20th centuries and the contribution to theatre made by, among others, Antoine, Stanislavsky, Craig, Belasco, Copeau, Reinhardt, Brecht, Barrault, Brook, Littlewood, and Grotowski. *M. Schonberg*

*Prerequisites:* Permission of instructor

## Economics

*Supervisor of Studies:* D.E. Campbell (H414)

### General Information

The Economics curriculum at Scarborough College can now provide a well-rounded training in that field, adequate to prepare the student for his responsibilities as citizen, and for the possibility of further study leading to careers in business, government and the professions.

There are certain courses from the list which follows which can be regarded as central: the introductory course (ECOA01); the initial courses -- Microeconomics (ECOB01) and Macroeconomics (ECOB02); and at least one course from among those which offer a different perspective from that seen from the mainstream of contemporary economic theory -- a course in Economic History (ECOB03 or ECOB04), a course in the literature of economics (ECOB05 or ECOB06), or the course in Comparative Economic Systems (ECOB10). A student who plans to go further with the subject should consider seriously acquiring some background in Accounting, Statistics, and Computer Science and, depending upon interest, from the wide range of other courses noted below.

Obviously, there are other fields related to Economics which can be strongly recommended to the student who wishes to attain a reasonable level of competence. Under this heading, we direct your attention to Mathematics (especially Calculus, Probability Theory, and Linear Algebra), Political Science, History, and the other Social Sciences.

## The Programme in Economics

The specialist programme in Economics 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 making policy decisions in business and government. Students taking this programme must enrol with the Division of Social Sciences:

Everyone enrolled in the programme must take the following courses:

ECOA01

ECOB01

ECOB02

ECOB18 or ECOB11

MATA26 or MATA55

ECOA02

one of: ECOC01/ECOC04/ECOC06/ECOC07/ECOC02/ECOC10

one of: ECOC03/ECOC05/ECOC04

ECOB05 or ECOB06

ECOB03 or ECOB04

ECOC13 or ECOC14

At least 10 full year courses, including the Mathematics requirement, must be taken (two half-year courses count as one full year course).

## A Programme Leading to Postgraduate Study in Economics

Students interested in pursuing the study of Economics beyond the undergraduate level are advised to take the courses in Economics recommended in *General Information* and in addition one course in Calculus, one course in Linear Algebra, one course in Statistics, and ECOC08 (Econometrics). Statistics should be taken early in the programme since it is a prerequisite for Econometrics. Although Calculus is not used in teaching Economics at the undergraduate level students thinking of postgraduate study are advised to take it early in their programme since it *can* be of help in ECOB01 and other theory courses. Linear Algebra may be taken at any time the student wishes — it is not used in Economics at the undergraduate level.

X ECOA01Y

### Introduction to Economics

Full  
Course

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

Y ECOA02Y

### Quantitative Methods in Economics

Full  
Course

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SOSA01F] An introduction to basic statistical methods and their applications to economic problems. Some discussion of the use and testing of econometric models is undertaken. *P. Pelikan*  
*Prerequisites or Corequisites:* ECOA01 or ECOA03

ECOB01Y

### Price Theory

Full  
Course

An intermediate level development of the principles of micro-economic, or price and allocation, theory. The primary emphasis is on developing the apparatus of static partial equilibrium analysis. The subject also extends briefly to problems of general market equilibrium and economic welfare.

*Prerequisites:* ECOA01 or ECOA03

ECOB02F

### National Income and the National Economy

Term  
Half-  
Course

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 interrelationships between international exchanges and the domestic price level and employment. *J. Gemello*

*Prerequisites:* ECOA01 or ECOA03

ECOB03Y

### North American Economic History

Full  
Course

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, the evolution of financial institutions, problems of industrialization and urbanization, and the relationship of the state to economic change in the two countries.

*Prerequisites:* ECOA01 or ECOA03

X ECOB04Y

### European Economic History

Full  
Course

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 affects of public policy, and consequent changes in income levels and the structure of the economy. *J. Cohen*

*Prerequisites:* ECOA01 or ECOA03

ECOB05F

### The Economics of Karl Marx

Term  
Half-  
Course

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. *J. Cohen*

*Prerequisites:* ECOA01 or ECOA03

X ECOB06S

### Literature of Political Economy

A study of the classical literature of Political Economy; especially selections from the work of Adam Smith, Malthus, Ricardo, J.S. Mill, Marx, Jevons, Marshall and Keynes.

- Prerequisites:** ECOA01 or ECOA03  
**Prerequisites or Corequisites:** ECOB01 or ECOB02
- ECOB07S Economics of the Public Sector: Taxation**  
 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. *J. Gemello*  
*Prerequisites:* ECOA01 or ECOA03
- ECOB08F Economics of the Public Sector: Expenditures**  
 A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.  
*Prerequisites:* ECOA01 or ECOA03
- ECOB09F Economic Development**  
 A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions.  
*Prerequisites:* ECOB01  
*Corequisites:* ECOB02
- ECOB10Y Comparative Economic Systems**  
 This course analyses organizations of economic activity other than the capitalist system. The alternatives considered are both real systems as they have developed in some countries, especially in the U.S.S.R., Czechoslovakia, Yugoslavia and China, and some untried systems as they have been proposed on a purely speculative basis. The course will attempt to evaluate properties of these systems and compare their respective advantages and shortcomings. *P. Pelikan*  
*Prerequisites:* ECOA01 or ECOA03
- ECOB11S Money and Banking**  
 An introduction to the operation of the money market. The focus will be on analysis of monetary theory and monetary policy.  
*Prerequisites:* ECOB02
- ECOB12F 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. *L. Tarshis*  
*Prerequisites:* ECOA01 or ECOA03

- ECOB13S 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. *M. Walker*  
*Prerequisites:* ECOA01 or ECOA03
- ECOB14S Labour Economics**  
 The functioning of labour markets with special attention to problems of mobility, various types of unemployment, wage and salary determination, wage differentials, and the relationships between wages and prices.  
*Prerequisites:* ECOA01 or ECOA03
- ECOB16S Industrial Organization**  
 The economics of the firm in a market environment. The aim is to study business behavior and public policy with respect to advertising, concentration, competition, rate-setting, etc.  
*Prerequisites:* ECOB01
- ECOB17F 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. *J. Gemello*  
*Prerequisites:* ECOA01 or ECOA03
- ECOB18S Macroeconomic Policy**  
 An examination of public policies for influencing and controlling the level of national income, employment, and the price level. *J. Gemello*  
*Prerequisites:* ECOB02; permission of instructor
- ECOB25Y Managerial Economics**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS COMB25] This course focuses on the theory and operation of the firm. Linear and non-linear programming are studied as tools in the firm's decision process. Topics covered include: cost estimation, analysis for pricing decisions, inventory policy, capital and investment theory, analysis of risk and uncertainty. *M. Walker*  
*Prerequisites:* ECOA01 or ECOA03
- ECOB27S Collective Decision Making**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SOSB04 or POLB27] An analytical investigation of the conditions

Term Half-Course requiring collective decision, and of the means by which such decisions can be and are achieved. This investigation will range over such areas as traditional economics, the theory of voting and problems of organizational structure. *M. Walker*  
*Prerequisites:* An A-level course in Economics or Political Science

**ECOC01F** **Topics in Advanced Microeconomic Theory**  
 The problems studied will demand depth of understanding of Microeconomics but not of Mathematics. Topics explored will usually include: existence and efficiency of a general competitive equilibrium; capital and interest theory; the theory of risk-bearing; stability analysis; cardinal vs ordinal utility; the core of an economy. *D.E. Campbell*  
*Prerequisites:* ECOB01

**ECOC02Y** **Corporation Finance**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS COMC02] An examination of the financial environment within which Canadian companies operate. The aim is to uncover the main principles of financial management and to discover the social and legal significance of the modern corporation.  
*Prerequisites:* ECOB01

**[ECOC03S** **Business Fluctuations]**  
 Course not offered in 1973-74. A study of the factors underlying secular fluctuations and cycles in the levels of national income and product. The relationship between economic fluctuations and growth is examined. Interactions among investment, consumption, innovative activity, monetary factors, and foreign trade are analysed from the point of view of their contributions are considered.  
*Prerequisites:* ECOB01; ECOB01; ECOB18

**ECOC04S** **Capital and Growth Theory**  
 The contribution of capital accumulation to economic growth is studied with a view to determining the relative contributions of capital, labour, and technical change to economic prosperity and growth. *D.E. Campbell*  
*Prerequisites:* ECOB01; ECOB02

**ECOC05S** **The Economics of J.M. Keynes**  
 A study of his major works and consideration of their broad social implications. An attempt will be made to evaluate their relevance for Canada and other countries at the present time. Modern criticisms of Keynes will be analysed. *L. Tarshis*  
*Prerequisites:* ECOB02

**ECOC06F** **Welfare Economics and Policy Design**  
 A study of theoretical questions concerning individual and group welfare; a critical analysis of the market system; objectives, instruments and decision processes of the policy-maker. *P. Pelikan*  
*Prerequisites:* ECOB01

**X ECOC10S** **Location Theory**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS GGRC10S] See GGRC10S  
*Prerequisites:* Two B-level courses in Economics or Geography

**ECOC08Y** **Econometrics**  
 A technical study of the problems of measurement and empirical research in Economics. Central to the course is the analysis of estimation and prediction with the aid of regression techniques.  
*Prerequisites:* ECOA01; ECOB01; ECOB02; ECOA02 (or an equivalent course in statistics)

**ECOC13F** **Workshop in Economics**  
 During 1973-74 the workshop will be concerned with the distribution of income and wealth in Canada, including the incidence of poverty.  
*Prerequisites:* ECOB01; ECOB02

**ECOC14S** **Workshop in Economics**  
 During 1973-74 the workshop will be concerned with inflation in recent Canadian experience.  
*Prerequisites:* ECOB01; ECOB02

**ECOC11F** **Supervised Reading**  
 See Page 31.

**ECOC12S** **Supervised Reading**  
 See Page 31.

## English

English Studies has as its subject matter all the communicative arts in English. The range of subject matter encompasses the study of 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 judgement. The programme is directed toward the broadening of experience, the refinement of feeling and judgement, and the expansion of the imagination.

Students are advised, when selecting courses in other disciplines, to match their English courses with appropriate courses in those disciplines: i.e. with courses in Classics concerned with Literary Criticism, Comedy, Tragedy, Satire, Love-poetry; with appropriate historical period courses in foreign literatures; with courses in Aesthetics (see Philosophy), History, Drama, Fine Arts, Comparative Literature (see Humanities). Courses in Contemporary Literature may also be profitably combined with studies in Anthropology, Sociology or Philosophy. Canadian Literature may also be studied as part of the College's Canadian Studies Programme.

*A-level courses in English:* All A-level courses in English are designed to provide a basic training in literary discussion. For further information consult Prof. W.J. Howard.

Full reading lists for each course offered may be seen at the College Bookstore.

- ENGA04Y English Literature: Forms & Approaches**  
An introductory study of a wide variety of texts in terms of genres and critical approaches. Emphasis will be placed on the understanding and use of critical terminology. Texts will include: Shakespeare, Hamlet, Congreve, *The Way of the World*; selections from the poetry of Marvell, Keats; Austen, *Pride & Prejudice*; Brontë, *Wuthering Heights*. Some critical articles will be studied. *K. Theil*
- ENGA05Y Canadian Literature in English: an Introduction**  
Novels by Callaghan, MacLennan, Laurence, Grove, Davies, Buckler; other prose by Moodie, Leacock; poetry of Lampman, D.C. Scott, Klein, Pratt, Birney, Atwood, Avison; plays by Ryga and others; collection of short stories.
- ENGA06Y American Literature: an Introduction**  
At least twelve works will be studied. Half the course will be devoted to works written before 1900, including the following: Melville, *Moby Dick*; Twain, *Huckleberry Finn*; Hawthorne, *The Scarlet Letter*; Whitman, *Selected Poems*.
- ENGB01Y Old English Language and Literature**  
An introduction to the language and literature of the Old English period as represented principally in the poetry and prose of the ninth and tenth centuries. The 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. Texts: *Seven Old English Poems* (ed. J.C. Pope); Ælfric, *Lives of Three English Saints*; Quirk and Wrenn, *An Old English Grammar*. *A. Patenall*

- ENGB02Y Chaucer**  
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). Students must familiarize themselves with Middle English grammar and diction. *E.P. Vicari*  
*Prerequisites:* One course in English
- ENGB04Y English Poetry, Prose and Drama 1660-1800**  
The poetry, prose and drama of the Restoration and Eighteenth Century with special reference to the work of Dryden, Pope, Swift and Johnson. *W.J. Howard*  
*Prerequisite:* One course in English
- ENGB05Y Romantic Literature**  
Selected poetry and prose of Wordsworth, Coleridge, Byron, Shelley, Keats. Some pre-Romantic and post-Romantic poems will also be read to determine the early sources and the influence of Romantic poetry. *S. Namjoshi*  
*Prerequisites:* One course in English
- ENGB06Y Victorian Poetry**  
The poetry of Tennyson, Browning, Arnold, and selections from other poets, including Morris, D.G. Rossetti, Swinburne, Hopkins, Hardy. Some prose works will be read to provide background in 19th century thought. *M. Creelman*  
*Prerequisites:* One course in English
- ENGB09Y Prose and Poetry of the English Renaissance, 1500-1660**  
More, *Utopia*; Machiavelli, *The Prince*; Sidney, *Apologie for Poetrie*, *Astrophel and Stella*; Spenser, *Shepherd's Calendar*, *Amoretti*, *Epithalamion*, *Hymnes*, *Faerie Queene* (Books I, III and Mutabilitie); Shakespeare, *Venus and Adonis*, *Sonnets*, *The Phoenix and the Turtle*; Donne, *Devotions Upon Emergent Occasions* (selections), *Funeral Sermon*, *Songs and Sonnets*, *Religious Poems*; Browne, *Religio Medici*; Bacon, *Essays*, *Novum Organum* (selections); Milton, *Lycidas*, *Areopagitica*, *Paradise Lost*; selected poems of Wyatt, Surrey, Marlowe, Raleigh, Daniel, Drayton, Herbert, Herrick, Vaughan, Marvell.  
*Prerequisites:* One course in English
- ENGB10Y Shakespeare**  
{MAY NOT BE TAKEN IN THE SAME DEGREE PROGRAMME AS ENGA02Y} A study of at least eleven plays. *A. Patenall*

- ENGB11Y Varieties of Drama**  
A study of drama from ancient Greece to the present day. About 20 plays will be examined in terms of theatrical convention, genre, theme, style, dramatic form. *K. Theil*
- Full Course
- ENGB12Y English Drama to 1642**  
Plays from the cycles of mediaeval religious drama to the closing of the theatres in 1642, including the major plays of Marlowe, Jonson, and Webster, and seven plays of Shakespeare (*Love's Labour's Lost*, *Richard III*, *Much Ado About Nothing*, *Troilus and Cressida*, *Othello*, *Coriolanus*, *The Winter's Tale*). *J. Margeson*  
*Prerequisites:* One course in English
- Full Course
- ENGB14Y Varieties of Fiction**  
An analytical study of prose fiction from various periods, aiming to develop a familiarity with the varieties of prose-fiction and a capacity for reading individual works critically. Students should read a fair portion of the texts during the previous summer.
- Full Course
- [ENGB15Y English Poetry]**  
Course not offered in 1973-74.
- Full Course
- [ENGB16Y Fiction 1832-1900]**  
Course not offered in 1973-74.  
*Prerequisites:* One course in English
- Full Course
- ENGB17Y Fiction Before 1832**  
At least 12 works including one or more by each of Defoe, Swift, Richardson, Fielding, Sterne, Austen, Scott. *W.J. Howard*  
*Prerequisites:* One course in English
- Full Course
- ENGB24Y Major American Authors**  
An intensive study of between four and six authors drawn from the following list: Cooper, Emerson, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner.  
*Prerequisites:* One course in English
- Full Course
- ENGB26Y Canadian Poetry in English**  
Poets of the nineteenth and twentieth centuries, including: Carman, Lampman, D.C. Scott, Pratt, F.R. Scott, A.J.M. Smith, Birney, Klein, Avison, Souster, Johnston, Purdy, Lee, Atwood.  
*Prerequisites:* One course in English
- Full Course

- ENGB27Y Canadian Fiction in English**  
A study of prose fiction in Canada from its beginnings to the present. Twenty works, by Brooke, Haliburton, Moodie, Duncan, Grove, Callaghan, MacLennan, Laurence, Davies, Richler, and others; a selection of short stories. *T. Long*  
*Prerequisites:* One course in English
- Full Course
- ENGB28Y Contemporary Literatures in English: West Indies, India, Africa and Australia**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS LITB04 OR HUMB04] The course will compare the literatures of the West Indies, Africa, Australia and India. At least 3 authors from each area will be read. *W.J. Howard*  
*Prerequisites:* Normally B-standing in one English course
- Full Course
- ENGB31Y Modern Drama**  
A study of developments in English, American and European drama from Ibsen to the present. The course will include plays by Chekhov, Ibsen, Strindberg, Pirandello, Sartre, Genet, Ionesco, Beckett, Synge, Yeats, Eliot, O'Neill, Albee, Osborne, Arden, Pinter, Brecht, Whiting. Some practical work in play composition and performance. *M. Tait*  
*Prerequisites:* One course in English
- Full Course
- ENGB32Y Modern Poetry**  
A study of Yeats, Eliot, Auden, Stevens, Thomas, Frost, and selections from other poets.  
*Prerequisites:* One course in English
- Full Course
- ENGB33Y The Modern Novel**  
An advanced study of about 15 novels from the period 1900-1945, with particular attention given to developments in fictional form and in the theory of the novel. Texts will include James, *The Ambassadors*; Conrad, *Nostromo*; Bennett, *The Old Wives' Tale*; Forster, *Howard's End*; Ford, *The Good Soldier*; Woolf, *The Waves*; Cary, *The Horse's Mouth*; and critical writings of these novelists on the craft of fiction. *M. Creelman*  
*Prerequisites:* One of ENGA04, ENGB14, ENGB16, ENGB17
- Full Course
- ENGB36Y Literature of Utopias**  
An examination of various utopias as presented in works by among others, Plato, More, Rabelais, Wells, Shaw, Huxley, Nietzsche, Asimov, Wyndham. *S. Namjoshi*
- Full Course
- ENGC03Y Studies in Middle English Language and Literature**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ENGB03Y] A study of the poetry and prose of England and

Full Course Scotland from 1100 to 1500, excluding Chaucer [See ENGB02Y]. Some non-English works also will be read in translation. Texts: Haskell, ed., *Middle English Anthology*; *Elder Edda*; Chretien, *Yvain*; Gottfried, *Tristan*; Malory, *Le Morte d'Arthur*. Students must familiarize themselves with Middle English grammar and diction. *P. Salus*  
*Prerequisites:* ENGB01 or ENGB02

[ENGC04Y **Studies in Renaissance Literature]**  
**Course not offered in 1973-74.**

Full Course *Prerequisites:* Normally B-Standing in ENGB09Y; two other courses in English

[ENGC05Y **Studies in Restoration & 18th Century Literature]**  
**Course not offered in 1973-74.**

Full Course *Prerequisites:* Normally B-Standing in three courses in English with at least one in Literature of the Restoration and/or 18th Century

[ENGC06Y **Studies in 19th Century Literature]**  
**Course not offered 1973-74.**

Full Course *Prerequisites:* Normally B-Standing in three English Courses

ENGC08Y **Studies in 20th Century Literature**

Full Course Detailed examination of Yeats, Eliot, Lawrence, Williams, Hemingway. *M. Tait*  
*Prerequisites:* Normally B-Standing in three English courses

ENGC11Y **Paradise Lost**

Full Course A close reading of Milton's poem. *A. Patenall*  
*Prerequisites:* Normally B-Standing in three English courses

ENGC12Y **Joseph Conrad & the Modern Novel**

Full Course A study of Conrad's influence on Fitzgerald, Faulkner and Mann. Reading: Conrad's major fiction and two novels by each of Fitzgerald, Faulkner & Mann.  
*Prerequisites:* Normally B-Standing in three English courses, including one of the following: ENGB14, ENGB16, ENGB17, ENGB33

ENGC14Y **Senior Essay**

Full Course *Prerequisites:* Normally B-Standing in three English courses

ENGC15Y **Comprehensive Examinations**

Full Course *Prerequisites:* Normally B-Standing in three English courses

[ENGC22F **The Contemporary Press]**

Term Half-Course **Course not offered 1973-74.**

*Prerequisites:* Normally B-Standing in one English Course

ENGC24Y **Topics in American Literature**

Full Course Special topics and aspects of American literature.

*Prerequisites:* One of ENGA06, ENGB21, ENGB22, ENGB24; and one other B-level English course

**The Specialist Programme in English**

- A. A student is required to complete at least TEN and not more than fifteen courses in English in a twenty-course degree programme. However, a student who obtains 80% or better in ENGC15Y (ENG466) will be entitled to Specialist Certification providing he has taken a minimum of EIGHT courses from at least seven of the basic course groups.
- B. A student is required to achieve an overall average of B (or better) in the ten courses which comprise his basic programme in English, and to achieve a B-Standing (or better) in group 9 of the basic programme.
- C. The Basic Programme for all Specialists is defined as follows:

	St. George	Number	Title	Scarborough College Equiv.
1.	ONE of English	200	Old English Language & Literature	B01Y
		300	Becwulf (pre-req. 200)	Not Offered
		312	Chaucer	B02Y
		404	Studies in Middle English Language & Literature	C03Y
2.	ONE of English	102	English Literature: More to Milton	Not Offered
		302	English Prose & Poetry 1500-1600	Not Offered
		304	English Prose & Poetry 1600-1660	B09Y
		413	Studies in Renaissance Literature	Not Offered
3.	ONE of English	212	Shakespeare	B10Y
		332	English Drama to 1642	B12Y
4.	ONE of English	306	English Prose, Poetry & Drama 1660-1800	Not Offered
		415	Studies in Restoration & 18th Cent. Literature	C05Y

- |    |                |     |   |             |
|----|----------------|-----|---|-------------|
| 5. | ONE of English | 308 | Romantic Poetry & Prose                 | B05Y        |
|    |                | 346 | Victorian Poetry                        | B06Y        |
|    |                | 368 | Victorian Prose                         | Not Offered |
|    |                | 417 | Studies in 19th Century Literature      | Not Offered |
| 6. | ONE of English | 322 | Fiction before 1832                     | B17Y        |
|    |                | 324 | Fiction 1832-1900                       | Not Offered |
| 7. | ONE of English | 150 | American Literature                     | A06Y        |
|    |                | 218 | Major American Authors                  | B24Y        |
|    |                | 351 | Topics in American Literature           | C24Y        |
|    |                | 152 | Canadian Lit. in English                | A05Y        |
|    |                | 354 | Canadian Poetry                         | B26Y        |
|    |                | 356 | Canadian Fiction                        | B27Y        |
| 8. | ONE of English | 108 | Forms of 20th Century Literature        | Not Offered |
|    |                | 328 | Modern Novel                            | B33Y        |
|    |                | 338 | Modern Drama                            | B31Y        |
|    |                | 348 | Modern Poetry                           | B32Y        |
|    |                | 419 | Studies in 20th Century Literature      | C08Y        |
| 9. | ONE of English | 466 | Comprehensive Examinations              | C15Y        |
|    |                | 467 | Seminar in Literary Theory and Practice | Not Offered |
|    |                | 469 | Senior Essay                            | C14Y        |
10. The following courses cannot be limited to any one particular grouping as above; some cross periods and genres (e.g., 220, 165) and others are determined by individual instructors and students (e.g., 370, 470). The student is required to take at least ONE additional course, one or more chosen EITHER from the courses listed above OR from those listed below:
- |         |     |  |             |
|---------|-----|--|-------------|
| English | 112 | Major British Writers                                  | Not Offered |
|         | 165 | English Literature: forms and approaches               | A04Y        |
| English | 204 | Mediaeval Literature to 1500                           | Not Offered |
|         | 220 | Varieties of Fiction                                   | B14Y        |
|         | 230 | Varieties of Drama                                     | B11Y        |
|         | 240 | English Poetry   | B15Y        |
|         | 260 | Varieties of Biography                                 | Not Offered |
| English | 334 | Restoration and Eighteenth-Century Drama (half-course) | Not Offered |
|         | 369 | Seminar in Writing                                     | Not Offered |
|         | 370 | Special Studies — Various                              | B28Y, B36Y  |
|         | 470 | Special Seminars                                       | C11Y, C12Y  |
| English | 468 | History of the English Language                        | Not Offered |

11. A student's basic programme may not include more than TWO 100-series courses in English.

## Fine Art

Courses in Fine Art are divided into two basic groups: Art History and Studio.

The courses offered in Art History deal with the development of the arts in the West from Classical times to the present. Students in Art History are advised to consider complementary courses in History and Classical and Modern Literatures.

The Studio programme provides an opportunity for practical encounters with materials and forms. Students taking Studio courses are encouraged to augment their programmes by taking courses involving the study of sensation and perception; literary criticism; anthropology; history and archaeology.

For the 1973-74 academic year, students wishing to take FARA70 and FARA71 should prepare a portfolio for presentation to the Studio professors and arrange an interview appointment at 284-3304. Interviews are to be arranged as follows: For FARA70 the first day of registration for first year students; for FARA71 the first day of classes in the Spring term. Students should note that FARB10, FARB11, and FARB12 will not satisfy prerequisite requirements of C-level courses. For further information consult Prof. G. Scavizzi.

Students should consult listings under:

- |        |  |
|--------|--|
| HISA01 | The European World: an Introduction to History |
| HUMB24 | Orpheus: the Quest for Beauty                  |
| HUMB25 | The Age of Homer                               |
| PHLB57 | Philosophy and Art                             |
| RELB11 | Comparative Mythology                          |

### FARA04Y Art History, an Introduction

A study of the cultural, political, and aesthetic forces at work in Architecture, Sculpture and Painting. The course will also consider recent contributions to methodology and art theory and the possibilities of other artistic media. *G. Scavizzi, R. Siebelhoff, others*

### FARA70F Two and Three-Dimensional Design

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FARB10] An introduction to the principles of form and composition on a two-dimensional plane and in space. *S. Amenta*  
*Prerequisites:* See portfolio requirement in introductory note

### FARA71S Colour

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FARB10] An analysis of the properties, perception, interaction of colour. *S. Amenta*  
*Prerequisites:* See portfolio requirement in introductory note

[FARB03F	<b>Renaissance Art]</b> Course not offered in 1973-74. <i>Prerequisites:</i> One A-level course or half-course in Fine Art
Term Half- Course	
[FARB17Y	<b>Baroque painting in the Netherlands]</b> Course not offered in 1973-74. <i>Prerequisites:</i> One A-level course or half-course in Fine Art
Year Course	
[FARB20Y	<b>Canadian Art]</b> Course not offered in 1973-74. <i>Prerequisites:</i> One A-level course or half-course in Fine Art
Year Course	
FARB21S	<b>Archaic Sculpture (700-480 B.C.)</b> A study of the evolution of Greek sculptural forms up to the classical period. <i>M. Shaw</i> <i>Prerequisites:</i> One A-level course or half-course in Fine Art
Term Half- Course	
FARB24Y	<b>Mediaeval Art</b> A survey of the arts from the time of Charlemagne to the Renaissance of the twelfth century. The course considers book illumination, painting, sculpture, architecture and the applied arts in Southern as well as Northern Europe. <i>R. Siebelhoff</i> <i>Prerequisites:</i> One A-level course or half-course in Fine Art
Year Course	
FARB25F	<b>High Gothic Architecture</b> A study of the evolution of Gothic style with particular attention to the cathedrals of Chartres, Amiens and Rheims. The course will also deal with the decoration of the Gothic cathedral and with elements of mediaeval iconography. <i>G. Scavizzi</i> <i>Prerequisites or Corequisites:</i> One A-level course or half-course in Fine Art
Term Half- Course	
FARB26Y	<b>The Arts in Northern Europe ca. 1400-1530</b> A study of "Northern Renaissance" concerned largely with Flanders and Germany, with consideration of the Van Eycks, Bosch, Dürer and Riemenschneider. <i>R. Siebelhoff</i> <i>Prerequisites:</i> One A-level course or half-course in Fine Art
Year Course	
FARB27F	<b>Baroque Art 1600-1630</b> The development of early Baroque Architecture, Sculpture and Painting in Europe, with special reference to C. Maderno, Rubens, and Bernini. <i>G. Scavizzi</i>
Term Half-	

Course	<i>Prerequisites or Corequisites:</i> One A-level course or half-course in Fine Art
FARB28Y	<b>Art of the Twentieth Century</b> Major artists and art movements since Cubism. <i>G. Moray</i> <i>Prerequisites or Corequisites:</i> One A-level course or half-course in Fine Art
Year Course	
FARB29S	<b>Early Christian and Byzantine Art</b> The painting and mosaics, sculpture and "minor" arts of the Early Christian and Byzantine world, with special consideration given to the relation between this period and the classical past and to the influence of this art on the development of Mediaeval art in the West. <i>A. Liivandi</i> <i>Prerequisites or Corequisites:</i> One A-level course or half-course in Fine Art
Term Half- Course	
FARB70S	<b>Drawing I</b> The "scribble". Iconography of expressive drawing. Limited enrolment: 20. <i>S. Amenta</i> <i>Prerequisites:</i> FARA70 <i>Corequisites:</i> FARA71; permission of instructor
Term Half- Course	
FARB71S	<b>Painting I</b> The act of painting and the painterly attitude. Exploration of surface and form in non-figurative painting. Limited enrolment: 15. <i>S. Amenta</i> <i>Prerequisites:</i> FARA70; FARA71
Term Half- Course	
FARB72F	<b>Printmaking I: Silkscreen Printing</b> Introduction to printmaking. Materials and methods in edition printing. Limited enrolment: 10. <i>D. Holman</i> <i>Prerequisites:</i> FARA70; FARA71
Term Half- Course	
FARB73F	<b>Sculpture I</b> Constructivism. Exploration of architectonic form in wood and plastic. Limited enrolment: 15. <i>D. Holman</i> <i>Prerequisites:</i> FARA70; FARA71
Term Half- Course	
[FARB74F	<b>Ceramics I]</b> Course not offered in 1973-74. Limited enrolment. <i>Prerequisites:</i> FARA70; FARA71
Term Half- Course	

[FARB75S	<b>Drawing II]</b> Course not offered in 1973-74. Limited enrolment: 20. <i>Prerequisites:</i> FARA70; FARA71; FARB70
Term	
Half-	
Course	
FARB76S	<b>Graphic Design and Typography</b> Graphic and typographic design in the fine and applied arts. Limited enrolment. <i>Prerequisites:</i> FARA70; FARA71 <i>Corequisites:</i> FARB70; FARB71
Term	
Half-	
Course	
[FARB77Y	<b>Film]</b> Course not offered in 1973-74. Limited enrolment. <i>Prerequisites:</i> FARA70; FARA71
Year	
Course	
[FARB78Y	<b>Animation]</b> Course not offered in 1973-74. Limited enrolment. <i>Prerequisites:</i> FARA70; FARA71 <i>Corequisites:</i> FARA77
Year	
Course	
[FARB79Y	<b>Photography]</b> Course not offered in 1973-74. Limited enrolment. <i>Prerequisites:</i> FARA70; FARA71
Year	
Course	
FARB80F	<b>Video</b> The use of videotape in the exploration of new aesthetic dimensions in art. Limited enrolment: 10. <i>Prerequisites:</i> FARA70; FARA71
Term	
Half-	
Course	
FARC01F	<b>Studies in Renaissance, Baroque and Rococo</b> The course will be based on individual research to be summarized in a final paper. Reading knowledge of one of French, German, Italian or Spanish is required. <i>G. Scavizzi</i> <i>Prerequisites:</i> At least two B-level courses in Fine Art
Term	
Half-	
Course	
FARC02S	<b>Supervised Reading</b> See Calendar Page 31. <i>Prerequisites:</i> At least two B-level courses in Fine Art
Term	
Half-	
Course	

## French

The courses offered in French by Scarborough College provide opportunities for students, without Grade 13 French, who wish to begin their study of French (FREA00Y), as well as for those with Grade 13 French who seek to continue their study of the language and literature of France, as well as of French Canada. FREA01 serves to consolidate the previous experience of students in the understanding and use of the language and acquaints them at the same time with the range of advanced studies available to them at the university level. Providing prerequisite requirements are met, courses may be combined in a variety of ways: however, students intending to specialize in French, are invited to consider taking both FREA01 and FREA02 in their first year, then to 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.

FREA11 is designed for those students not intending to specialize in French, and does *not* count therefore towards fulfilment of the requirements for specialization. For further information consult Prof. L. Mignault.

The attention of all students is directed to complementary courses offered by other disciplines, in particular to those listed below.

DRAB02	The Directors' Theatre
ENGB31	Modern Drama
HISB14	Early Modern Europe
HUMB42	Images of Women in French Literature
HUMB43	Women's Consciousness in French Literature
HUMC02	Seminar in Literary Theory and Practice
PHLB60	Philosophy in Literature
PHLB76	Sartre and the Continental Tradition
PHLB80	Philosophy of Language

All students enrolled in French, some of whom may later wish to attend the College 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.

FREA00Y	<b>Introductory French</b> This course is designed to enable students to begin (or to continue) their study of the French language with a view to entering FREA01Y in a subsequent year. Intensive laboratory and class-room instruction in written and oral French. The course is not open to students with Grade 13 French. It is a credit-course but does not count as one of the required courses for specialization in French.
FREA01Y	<b>Preparation for University French Studies</b> This course provides all students with opportunities to improve their language skills, by means of readings and written compositions, oral classes, phonetics and work in the language laboratory. <i>P. Moes</i> <i>Prerequisites:</i> Grade 13 French or equivalent
Full	
Course	

- FREA02Y** **Studies in Modern French Literature**  
A study of selected works from the fields of French poetry, fiction and theatre of the 19th and 20th centuries. This course is a practical introduction to techniques of literary criticism and analysis. *J. Curtis*  
*Prerequisites:* Grade 13 French or equivalent  
*Corequisites:* FREA01
- FREA11F** **Man and Society in French Fiction** **CANCELLED**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREA11Y] A study of sociological problems as reflected in selected works of 20th century French fiction. Works will be read in English translation, and classes conducted in English.
- FREA12S** **Man and Society in French-Canadian Fiction**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREA11Y] A study of sociological problems as reflected in selected works of 20th century French-Canadian Fiction. Works will be read in English translation, and classes conducted in English.
- FREB21Y** **Language Practice**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB01] A continuation of first-year language work, including grammar, composition, oral practice, readings and language laboratory work. *L. Mignault*  
*Prerequisites:* FREA01
- [FREB25Y]** **Introduction to French Linguistics**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB03]  
*Prerequisites:* FREA01
- FREB26Y** **The Romantic Current in French Literature**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB06] Analysis of "romanticism" in 19th century literature, with attention to the main writers of the period. *C. Jennings*  
*Prerequisites:* FREA01
- [FREB28F]** **French Drama of the 17th century**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB28]  
*Prerequisites:* FREA01
- [FREB29S]** **French Drama of the 18th century**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB28]  
*Prerequisites:* FREA01

- [FREB30Y]** **French Drama from 1800**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB08]  
*Prerequisites:* FREA01
- [FREB32F]** **The writer and 19th Century Society**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB10 AND FREB32]  
*Prerequisites:* FREA01
- [FREB33S]** **Readings in 19th Century French Fiction**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB10 AND FREB32]  
*Prerequisites:* FREA01
- FREB34F** **Readings in 20th Century French Fiction**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB12 AND FREB34] A study of writers concerned with aesthetic and psychological problems, such as Proust, Gide, Bernanos and Butor. *S. Mittler*  
*Prerequisites:* FREA01
- FREB35S** **Ideas in 20th Century French Fiction**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB12 AND FREB34] A study of the social, political and philosophical ideas of such writers as Camus, Sartre, Malraux and Beckett. *L. Mignault*  
*Prerequisites:* FREA01
- FREB36F** **French-Canadian Literature to 1945**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB16 AND FREB36] A study of selected poetry and novels from the mid-19th century to the end of the Second World War. *L. Doucette*  
*Prerequisites:* FREA01
- FREB37S** **French-Canadian Literature since 1945**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB16 AND FREB36] A study of the poetry, novels and drama of Quebec in the contemporary period. *L. Doucette*  
*Prerequisites:* FREA01
- FREB40F** **The Poetry and Prose of the Golden Age**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB02 AND FREB22] A study of non-dramatic literature of the

Term  
Half-  
Course 17th century with attention to works by Malherbe, Descartes, Pascal, La Fontaine, La Bruyère, La Rochefoucauld, Mme de la Fayette and Mme de Sévigné. *G. Trembley*  
*Prerequisites:* FREA01

**FREB41S** **The Playwrights of the Golden Age: Corneille, Molière, Racine**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB02 AND FREB22] A study of the development of classical tragedy and comedy, of stage practice and theatrical conditions. *J. Curtis*  
*Prerequisites:* FREA01

[FREB42F] **General History of the French Language**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB05 AND FREB23]  
*Prerequisites:* FREA01

[FREB43S] **The French Language in Canada**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB05 AND FREB23]  
*Prerequisites:* FREA01

**FREB44F** **The Intellectual Explosion: The French "Philosophes" in the Age of Enlightenment**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB04 AND FREB24] An analysis of the most significant works of Montesquieu, Voltaire, Diderot, Rousseau and others. *P. Moes*  
*Prerequisites:* FREA01

**FREB45S** **French Literature in the Age of Enlightenment**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS FREB04 AND FREB24] A study of the literary qualities of Montesquieu, Voltaire, Diderot, Rousseau, Marivaux, Beaumarchais, Prévost and others. *P. Moes*  
*Prerequisites:* FREA01

[FREB46F] **Principles of lexicology and their application to Modern French**  
Course not offered in 1973-74.  
*Prerequisites:* FREA01

**FREB48Y** **Theoretical and Practical Phonetics**  
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. *G. Trembley*  
*Prerequisites:* FREA01Y

**FREC01Y** **Language Practice**  
This course is a continuation of FREB21 and includes reading, grammar, composition, stylistic exercises, discussions and/or debates. *C. Jennings; G. Trembley*  
*Prerequisites:* FREB21 or FREB01

**FREC02F** **Supervised Reading**  
**FREC04F** See Calendar Page 31. *Members of the Faculty*  
*Prerequisites:* At least one B-level course in French; permission of instructor

**FREC03S** **Supervised Reading**  
**FREC05S** See Calendar Page 31. *Members of the Faculty*  
*Prerequisites:* At least one B-level course in French; permission of instructor

**FREC08F** **Problems in Translation**  
A practical course in translating both from French to English and from English to French, which will involve analysis of selected examples of the translator's art, as well as exercises in *thème* and *version*. Some attention will also be given to the theory of translation and comparative stylistics. *J. Curtis*  
*Prerequisites:* FREB21

## Geography

*Supervisor of Studies:* C.J. Sparrow

Members of the Geography faculty can provide detailed advice and counselling on course selection and on the planning of a coherent and logical programme of studies. Students are invited to make use of this advice.

Geography is concerned with the spatial distribution of physical and human phenomena and with the associations of phenomena that distinguish one area of the earth's surface from another.

The face of the earth is made up of many different kinds of features, each of which is the momentary result of a continuing process. Many kinds of physical and



cultural processes operate and the result of the interaction of these processes is that the face of the earth is composed of a mosaic of distinctive areas. Geography seeks to interpret the significance of the similarities and differences among areas in terms of causes and consequences.

Students are now able to take all the courses at Scarborough College which are needed to obtain the designation 'Specialist in Geography' on their transcripts. Students who are interested in specializing in Geography should confer with the Geography faculty at Scarborough College and should also look at the current St. George campus calendar to evaluate the wide range of Geography courses offered on that campus.

Students wishing to obtain specialist standing in Geography should include at least 9 full Geography courses (or their equivalents) in their 20 courses in the four year B.A./B.Sc. degree. Geography B02, C01 and C08 and either C12S or Geography 320 are mandatory among the courses in Geography selected. Students interested in majoring in the subject are advised to include the full range of introductory Geography courses and GGRB02 in their programme.

The introductory programme in Geography consists of five half courses. As far as possible, four of these are timetabled in such a way that they can be taken as two full courses. Lectures and tutorials or practical work in Geography A06 and A07 and A08 and A09 are scheduled at the same time.

The additional grouping of Geography courses selected will depend on the particular interests of each student (for example some will wish to concentrate on Physical Geography, others on Human Geography and others on Area Studies) and on the careers or advanced studies upon which they are likely to embark. Certain courses in Chemistry, Physics and Biological Sciences would be especially useful to the student of Physical Geography while other courses in Economics, Political Science, Anthropology and Sociology would be of benefit to those students most interested in Human Geography.

The interdisciplinary course NSCA03 Quaternary Environments and Man will be of interest to many students taking Geography whether they are concentrating on Physical or Human Geography.

Students should also consult listing under NSCA03 Quaternary Environments and Man.

<b>GGRA03S</b>	<b>Introduction to Geography: Geographic Methods I: Cartographic and Field Methods</b>
Term Half- Course	An introduction to the compilation, construction, interpretation and use of a variety of types of maps. The course introduces some of the simpler basic field work techniques frequently used by geographers. <i>C. Sparrow</i>
<b>GGRA06F</b>	<b>Introduction to Geography: Environmental Analysis</b>
Term Half- Course	[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS GGRA02] Studies of the environment of man following the philosophical traditions of Geography and allied Physical Sciences. Subjects include spatial and temporal orientation to landscape phenomena, measurement, scale and co-ordinate representation,

atmospheric, biotic, and soils systems, resource identification and analysis, and environmental hazards with particular attention to environmental pollution. *K. Francis*

<b>GGRA07S</b>	<b>Introduction to Geography: The Surface of the Earth</b>
Term Half- Course	[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS GGRA02] An introductory survey of the principles of Physical Geology and Physical Geography involved in the evaluation of man's changing physical environment. Earth materials, the rock cycle, subsurface and surface processes, climatic controls on erosion and current theories on the origin and development of the lithosphere and biosphere. Emphasis will be placed on surface morphology and the process-response relationships existing between the denudational agents and the earth materials. <i>B. Greenwood</i> <i>Corequisites:</i> None - a background in Science would be helpful but not essential
<b>GGRA08F</b>	<b>Introduction to Geography: Regional Analysis</b>
Term Half- Course	[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS GGRA01] The concepts, methods and practices of regional study in Geography. Theoretical, administrative and literary regionalism; the region as a concept, from "natural regions" to regional science; regional description and analysis. Includes a field excursion and the preparation of a report on a selected region in eastern Ontario. <i>P. Cave</i>
<b>GGRA09S</b>	<b>Introduction to Geography: Spatial Analysis</b>
Term Half- Course	[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS GGRA01] The spatial organization of society; elementary location theory, land use and spatial interaction. Problems of the spatial structure of contemporary western economies; poverty, regional underdevelopment; spatial inequality. Development objectives in a spatial economy. <i>G. Hewings</i>
<b>GGRB01Y</b>	<b>Geography of Resources</b>
Full Course	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. <i>A. Tayyeb</i> <i>Prerequisites:</i> GGRA01 or GGRA02, or GGRA06, GGRA07 or GGRA08; GGRA09
<b>GGRB02Y</b>	<b>Geographic Methods II: Analytical and Quantitative Methods</b>
Full Course	Identification of geographic problems and the selection of data; tests of simple hypotheses; correlation and regression; regionalization and allocation problems. Elementary computer programming together

with the use of previously written programmes. *G. Hewings*  
*Prerequisites:* Two A-level courses in Geography

- GGRB03Y** **Climatology**  
 Full Course  
 The main aspects of Physical Climatology and the dynamics of the earth's atmosphere. The second half of the course concentrates on Applied Climatology and atmospheric pollution and urban climates. Tutorial work includes the use of simple climatic instruments. *C. Sparrow*  
*Prerequisites:* GGRA02 or GGRA06; GGRA07
- GGRB05Y** **Urban Geography**  
 Full Course  
 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 of urban growth; systems of cities; urban form and design; spatial structure of land uses; distinctive socio-economic areas within cities; circulation; transportation and immigration. *P. Cave*  
*Prerequisites:* GGRA01 or GGRA08; GGRA09
- GGRB06Y** **The Geography of Economic Activities**  
 Full Course  
 An introduction to the Geography of world economic activities, including the geographical variation in the level of economic development, the inter-relationship of consumption, production and exchange, the process of agricultural and industrial production, economic and location theory, transportation, the growth of service industries, and problems of economic development. *M. Bunce*  
*Prerequisites:* GGRA01 or GGRA08; GGRA09
- GGRB07Y** **Geomorphology**  
 Full Course  
 A detailed examination of the processes contributing to the continuing modification of the earth's surface features. 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. *B. Greenwood*  
*Prerequisites:* GGRA07 or GGRA02  
*Corequisites:* None. GGRB03 and GGRB02 are strongly recommended as some background in the scientific approach is necessary
- GGRB08Y** **The Geography of Underdeveloped Areas**  
 The definition, nature, performance and problems of underdeveloped areas. Underdevelopment as a phenomenon, a condition

Full Course  
 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. *A. Tayyeb*  
*Prerequisites:* GGRA01 or GGRA08; GGRA09  
*Corequisites:* None. Students are recommended to have completed GGRB02

**GGRB09Y** **Special Topics - 1973-74 Advanced Geographic Methods**  
 Full Course  
 Advanced analytical and quantitative techniques currently used in Geography. Laboratory work will deal with examples of specific techniques discussed in the lecture course. *Members of the Faculty*  
*Prerequisites:* GGRB02

**GGRB10Y** **The Geography of Soils**  
 Full Course  
 Course not offered in 1973-74. The distribution, genesis and classification of soils. Field and laboratory work on soil mapping techniques, soil analysis, etc.  
*Prerequisites:* GGRA06; GGRA07 or GGRA02

**GGRB11Y** **Air Photo Interpretation and Analysis**  
 Full Course  
 Course not offered in 1973-74. An introduction to the theory and applications of air photos. Interested students from other disciplines should consult with the instructor.  
*Prerequisites:* GGRA03  
*Corequisites:* GGRB02

**GGRB12Y** **The Historical Geography of Canada**  
 Full Course  
 Course not offered in 1973-74. An introduction to the historical geography of Canada.  
*Prerequisites:* 2 A-level Geography courses

**GGRB13Y** **Introduction to Cultural Geography**  
 Full Course  
 Course not offered in 1973-74. The nature, scope and methodology of cultural Geography. Examples of contrasted cultural groups and areas will be used.  
*Prerequisites:* GGRA08; GGRA09

**GGRB14Y** **The Canadian North**  
 Full Course  
 An analytical inquiry which exposes problems and perspectives on the North with special focus on human occupation, land use, resource identification and management, northern operations, northern policy and foreign analogs. *K. Francis*  
*Prerequisites:* GGRA06 or approved equivalent

**GGRC01Y** **Supervised Research**  
 Students will be required to complete a dissertation and discuss it with an examining committee. The topic for the research project

Full Course should be selected by the end of the third year of study and must be approved by a staff supervisor. Students should start work on the project during the summer preceding their fourth year, and complete most or all of their field work during this period. *Members of the Faculty*

*Prerequisites:* Any fifteen courses. By the end of the student's fourth year, at least eight courses in Geography (not including GGRC01) must have been completed

#### GGRC02Y Rural Land Use

Full Course

During the first term, the economics and spatial distribution of rural land use, will be examined to provide an understanding of the nature of rurality within a theoretical and regional framework. In the second term seminars will concentrate upon some aspects and problems of land use in rural Ontario, including, for example, contemporary issues in Ontario agriculture, rural poverty, the rural-urban fringe and rural planning. Students will be expected to undertake a research project on a selected aspect of rural Ontario. Limited enrolment — 20. *M. Bunce*

*Prerequisites:* GGRB06

*Corequisites:* None. Students are strongly recommended to have completed GGRB02

#### [GGRC03S Regional Industrial Analysis and Development]

Term Half-Course

**Course not offered in 1973-74.** Regional development from both theoretical and empirical standpoints. The first part of the course will consist of a presentation of alternative frameworks for analysis: regional balance of payments; economic base; shift and share; regional and interregional input-output; dynamic and static aggregate models. In the second part, an evaluation will be made of the public policy issues -- the application and utility of growth pole theory, equity-efficiency trade-offs, balanced-unbalanced growth, quality-quantity issues -- in the light of recent experience in Canada, the U.S.A. and Western Europe. Limited enrolment — 20. *G. Hewings*

*Prerequisites:* Two B-level courses in Economics or Geography

#### GGRC04S Urbanization in Ontario

Term Half-Course

An advanced discussion course on the following: the history of urbanization in Southern Ontario; the urban development process; Ontario townscapes; urbanization of the rural landscape. Discussions will focus mainly on case studies of selected topics such as: "project-building" in the city; images of city form; speculation and the urban shadow; conflicts in Niagara; the Ontario lakeshore; ex-urban living; small-towns and central places in Ontario; idle land and speculation; cottages and recreation. Limited enrolment — 20. *P. Cave*

*Prerequisites:* GGRB05

#### GGRC05F Theory and Method in Modern Quantitative Geomorphology

Term Half-Course

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

*Prerequisites:* GGRB07

#### GGRC06F Biogeography

Term Half-Course

Fundamental concepts in Biogeography and Ecology in relation to specific processes affecting plant and animal distributions. Limited enrolment — 20. *C. Sparrow*

*Prerequisites:* GGRB03; at least 2 other B-level Geography courses

#### GGRC07Y Advanced Readings in Selected Fields of Geography

Full Course

Advanced reading and study courses with a programme to be planned in consultation between students and instructors. *Members of the Faculty*

*Prerequisites:* At least 3 B-level Geography courses; permission of instructor

#### GGRC08F Field Problems in Geography

Term Half-Course

Professional procedures in the design and execution of field research in Geography and related fields. A variety of technical procedures and problems orientated to the particular requirements of the participants. Limited enrolment — 20. *K. Francis*

*Prerequisites:* At least 2 B-level Geography courses

#### [GGRC09S Canada North of Sixty]

Term Half-Course

**Course not offered in 1973-74.** A seminar in Resource Geography dealing with selected problems in arctic resource perception, analysis and evaluation including the analysis of arctic operational systems, biotic systems, terrain systems, and human economic and cultural systems. For specific subjects, a comparative approach may be taken using Soviet, Alaskan, Scandinavian and Danish analogues. Students will assume considerable responsibility for setting specific subject content and direction of the seminar. Limited enrolment — 20. *K. Francis*

*Prerequisites:* At least 2 B-level Geography courses

#### GGRC10S Location Theory

Term Half-Course

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ECOC10] Industrial location theory of individual and sets of activities under various spatial market environments, especially duopoly, oligopoly and imperfect competition. The course will begin with an appraisal of traditional Weberian theory and proceed through the works of Losch and Isard to consider the more recent theories of Greenhut, Moses, Churchill, Scott and others. Limited

**Prerequisites:** Two B-level courses in Economics or Geography

Term  
Half-  
Course

**Prerequisites:** GGRB02 or similar background in Statistics and Methods

Term  
Half-  
Course

**Prerequisites:** Any fifteen courses. By the end of the student's fourth year, at least eight courses in Geography (not including GGRC12) must have been completed

Term  
Half-  
Course

**Prerequisites:** GGRA08; GGRA09 and/or POLA02Y; one B-level course in Geography

Term  
Half-  
Course

An examination of aspects of the historical geography of Upper Canada and Ontario in the nineteenth century. Particular attention will be paid to the development of the rural landscape through a study of such themes as pioneer settlement, the impact of ethnic diversity, the growth of agriculture, and the spread of transportation. Reading and research of archival and other original source material will form an important part of the course, and will constitute the basis of weekly seminar discussions. Students are expected to complete a short research project using original sources.

**Corequisites:** None. Students are recommended to take GGRC04 and GGR348

Term  
Half-  
Course

**Prerequisites:** At least 2 B-level Geography courses  
**Corequisites:** GGRB10

Term  
Half-  
Course

**Prerequisites:** At least 2 B-level Geography or History courses  
**Corequisites:** GGRB12

The courses in German offered by Scarborough College 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 specialize in German are urged to consider the programme of study set out below, which includes a language course during each year of study in order to maintain continuity in the development of these practical skills.

Specialists must complete a minimum of 6-1/2 upper level year-course equivalents (including GERC04), plus a half course in Middle High German (GER326F), which is available on the St. George campus. The Scarborough College course on The German Novel (GERB17Y) does *not* count towards fulfillment of the requirements for specialization. For further information consult Prof. H. Wittmann.

Second Term: GERA11; GERB10

Second Term: GERB04; GERB15 or GERB03

Second Term: GERC04; GERB03 or GERB15; GERB12 or GERB11

Second Term: GERB11 or GERB12; GERC03

Students of German, some of whom may later wish to attend 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.

- GERA10Y**    **Introductory German**  
The fundamentals of grammar and syntax. *W. Tepfenhardt*  
Full  
Course
- GERA11Y**    **Intermediate German**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS  
GERA01] Intensive language work focusing on readings, oral and  
written composition. *W. Tepfenhardt*  
Full  
Course  
*Prerequisites:* Grade 13 or GERA10
- [GERB01F**    **German Literature before 1775]**  
**Course not offered in 1973-74.**  
Term  
Half-  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB02F**    **20th Century Prose**  
A study of authors such as Mann, Musil, Kafka, Brecht, Böll and  
Grass. *H. Wittmann*  
Term  
Half-  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB03S**    **20th Century Drama and Poetry**  
A study of the dramatic works of Wedekind, representative play-  
wrights of Expressionism, Brecht, Frisch, Dürrenmatt, Hochhuth,  
Kipphardt, Weiss; selections from the poetry of Rilke, George, Hof-  
mannsthal; the Expressionists Heym, Trakl, Benn, Lasker-Schüler;  
Kaschnitz, Celan, Enzensberger. *H. Ohlendorf*  
Term  
Half-  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB04Y**    **Advanced Conversation and Composition**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS  
GERB04H] A continuation of the language work done in GERA01.  
*H. Wittmann*  
Full  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* Any one of GERB01, GERB05, GERB02, GERB03,  
GERB15, GERB16, GERB11, GERB12
- GERB05F**    **Literature of the Baroque and Enlightenment**  
A study of seventeenth and eighteenth century literature with  
special emphasis on Grimmelshausen and Lessing. Poetry will be  
selected from the works of Gryphius, Fleming, Günther, Klopstock  
Term  
Half-

- Course  
and others. An exploration of themes such as the impact of war on  
human consciousness and the emergence of the humanistic tradition  
of German Idealism. *H. Wittmann*  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB10S**    **Introductory Seminar on German Literature**  
An introduction to the techniques of literary analysis, applied to  
representative texts of the eighteenth, nineteenth and twentieth  
centuries. *H. Ohlendorf*  
Term  
Half-  
Course  
*Prerequisites:* Grade 13 or GERA10  
*Corequisites:* GERA11
- GERB11Y**    **Classicism**  
A study of Classicism, with particular attention to Schiller and  
Goethe. Reference will also be made to the critical writings of men  
such as Winckelmann and Herder and to the essays and the exchange  
of letters by Schiller and Goethe. *H. Ohlendorf*  
Full  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- [GERB12Y**    **Literature of "Sturm und Drang" and Romanticism]**  
**Course not offered in 1973-74.**  
Full  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB15S**    **19th Century Prose**  
A study of Storm, Droste-Hülshoff, E.T.A. Hoffmann, Keller,  
Fontane, Hauptmann, among others. *H. Wittmann*  
Term  
Half-  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB16F**    **19th Century Drama and Poetry**  
The development of drama from Büchner to Hauptmann, including  
Grabbe, Grillparzer, and Hebbel. The poetry of the late Roman-  
ticists, as well as some of the above mentioned authors, Heine and  
Mörike. *H. Ohlendorf*  
Term  
Half-  
Course  
*Prerequisites:* GERA01 or GERA11  
*Corequisites:* GERB04
- GERB17Y**    **The German Novel from Goethe to Grass**  
A study of major novels of Goethe, Stifter, Keller, Th. Mann, Hesse,  
Musil, Grass, and others read in English. (This course does not count  
towards fulfilment of the specialist requirements of the St. George  
Department.) *W. Tepfenhardt*  
Full  
Course

<b>GERC02F</b>	<b>Supervised Reading</b> See Calendar Page 31. <i>Prerequisites:</i> GERA01 or GERA11; GERB04
Term Half- Course	
<b>GERC03S</b>	<b>Supervised Reading</b> See Calendar Page 31. <i>Prerequisites:</i> GERA01 or GERA11; GERB04
Term Half- Course	
<b>GERC04H</b>	<b>Stylistics</b> A study of expository and creative writing, with analysis of texts. <i>H. Ohlendorf</i> <i>Prerequisites:</i> GERA01 or GERA11; GERB04 <i>Corequisites:</i> GERB02; GERB03; GERB15; GERB16; GERB12; GERB11
Year-Long Half- Course	

## History

History is a humanities discipline which contributes to a fuller understanding of the present by the examination of the past, and which also is related to the Social Sciences, whose findings depend on precise evaluation of evidence. The study of History, therefore, can play a part in a large number of interdisciplinary programmes.

The History programme combines a variety of approaches and teaching methods in order to satisfy a number of purposes. Comprehensive courses (HISA01-HISB09) both provide a foundation in their areas and serve as preparation for more detailed studies. In advanced courses (HISB10-HISC99) students investigate more specific areas or periods or problems. C-series seminars require the students to make close and thorough studies of primary sources and other evidence and to present their findings in discussions and a major paper.

Students are strongly advised to enrol in HISA01 early in their academic programmes and to enrol in no more than two C-series courses of their equivalent in any one academic year.

Students who wish to specialize in History should consult with members of the faculty as early as possible in order to establish coherence in their studies. They are advised to complete at least nine full year History courses or their equivalent, including HISA01 and five advanced courses. They should avoid excessive specialization in one area of History. Courses in Greek and Roman History are listed elsewhere in this Calendar. For further information consult Prof. M. Eksteins.

<b>HISA01Y</b>	<b>The European World: An Introduction to History</b> A survey of European society from the Middle Ages to the present. This course will examine major trends in politics, economy, society
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Full Course	and thought, and involves readings from selected primary and secondary sources. <i>M. Eksteins, J. Pearl</i>
<b>HISB01Y</b>	<b>British History Since 1785</b> An examination of the political, social, economic and religious forces which transformed an aristocratic society into an industrial power which subsequently declined. <i>J. Kenyon</i>
Full Course	
<b>HISB03Y</b>	<b>History of the United States</b> Major themes from the Revolution to the present, including independence, political reorganization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights questions, the response to industrialization, progressivism and the United States as a world power. <i>A. Sheps</i>
Full Course	
<b>HISB05F</b>	<b>Canadian History to 1867</b> 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. <i>J. Moir</i>
Term Half- Course	
<b>HISB06S</b>	<b>Canadian History Since Confederation</b> Confederation and the consolidation of the Dominion; national development and World War I; the development of Dominion status; the Great Depression and regional involvement in World War II. <i>I. Robertson</i>
Term Half- Course	
<b>[HISB13Y]</b>	<b>European Urban History]</b> Course not offered in 1973-74. <i>Prerequisites:</i> HISA01
Full Course	
<b>HISB14Y</b>	<b>Society in Early Modern Europe 1550-1800</b> The evolution of European social classes and their cultures, from feudalism to the French Revolution. <i>J. Pearl</i> <i>Prerequisites:</i> HISA01
Full Course	
<b>[HISB15Y]</b>	<b>Socialism in Theory &amp; Practice]</b> Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISC15, PHLB15 OR PHLB52] <i>Prerequisites:</i> HISA01
Full Course	
<b>HISB17Y</b>	<b>Germany in the 19th and 20th Centuries</b> 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. <i>M. Eksteins</i> <i>Prerequisites:</i> HISA01
Full Course	

- HISB21F** **Frontier Communities in the British Empire-Commonwealth**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB19] A comparative study of the influence of frontiers on the development of new nations. Major issues such as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power, are considered. *J. Kenyon*  
*Prerequisites:* HISB01
- Term  
Half-Course
- HISB22S** **British Imperialism in Asia and Africa**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB19] The impact of imperialism on the non-European world: the motives behind British imperialism; the problems of administration; the transfer of power; neo-colonialism. *J. Kenyon*  
*Prerequisites:* HISB01
- Term  
Half-Course
- [HISB27Y** **Europe 400-1100]**  
Course not offered in 1973-74.
- Full  
Course
- HISB31Y** **The South, Slavery, and Sectionalism in American History: 1607-1865**  
An investigation of social structure and social conflict in the Old South, the development of southern culture, the relationship between ideology and institutions, slavery as a social and economic system, racial and social theories, the political economy and practices of the South, and the growth of southern nationalism and separatism. *A. Sheps*  
*Prerequisites:* HISB03
- Full  
Course
- [HISB35Y** **American Response to Industrialization]**  
Course not offered in 1973-74.  
*Prerequisites:* HISB03
- Full  
Course
- HISB43Y** **Ontario History, the 19th Century**  
The land, transportation, religion, economics, social issues, political parties, pioneers and immigrants, forces of international commerce and finance, cultural and religious developments. *W. McKay*  
*Prerequisites:* HISB05; HISB06
- Full  
Course
- HISB46F** **The Maritime Region Before Confederation**  
The French Regime; British Settlement; responses to the American Revolution; colonial economies and social structures; struggles for Responsible Government; religious and ethnic tensions, intellectual and literary developments; and the advent and significance of Confederation. *I. Robertson*  
*Prerequisites:* HISB05
- Term  
Half-Course

- HISB47S** **Dissenting and Reform Movements in post-Confederation Canada**  
An investigation of farmer, labour, and socialist movements since Confederation. *I. Robertson*  
*Prerequisites:* HISB06
- Term  
Half-Course
- HISC01F** **Independent Study**  
See Calendar, Page 31.  
*Prerequisites:* At least one B-level History course; permission of instructor
- Term  
Half-Course
- HISC02S** **Independent Study**  
See Calendar, Page 31.  
*Prerequisites:* At least one B-level History course; permission of instructor
- Term  
Half-Course
- [HISC11Y** **Western Europe in the 17th Century]**  
Course not offered in 1973-74.  
*Prerequisites:* HISA01; one B-level History Course
- Full  
Course
- HISC12F** **The Witchcraft Crisis in Early Modern Europe 1500-1700**  
This seminar will attempt to discover the nature of witchcraft and why it was perceived so acutely in this period. Limited enrolment: 20. *J. Pearl*  
*Prerequisites:* At least one B-level course in History
- Term  
Half-Course
- HISC13S** **The Scientific Revolution 1550-1700**  
This seminar traces the developments in science from Copernicus to Newton, as well as the scientific academies. Limited enrolment: 20. *J. Pearl*  
*Prerequisites:* At least one B-level course in History
- Term  
Half-Course
- HISC17Y** **European Society and Culture between the World Wars**  
An investigation of the impact of war, technology, economics, and totalitarianism on the social condition and mind of European man. A reading knowledge of one or more foreign languages, although not indispensable, would be very helpful. Limited enrolment: 30. *M. Eksteins*  
*Prerequisites:* HISA01; one B-level History course
- Full  
Course
- HISC21Y** **Urbanization and Social Change in 19th Century England**  
A study of the new social environment created by the growth of cities in an industrial community. *J. Kenyon*  
*Prerequisites:* HISB01
- Full  
Course

- [HISC22Y Religion and English Society, 1750-1900]**  
**Course not offered in 1973-74.**  
 Full Course  
*Prerequisites:* HISB01
- HISC33Y American Society and Thought Before the Civil War**  
**[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB33]** Topics will include nationalism, racism, abolitionism, attitudes to immigration and urbanization, the impact of the frontier and of religion, political ideas of Puritan, revolutionary, Jeffersonian, Jacksonian and Lincolnian America, social discontent and social and reform movements, and economic thought and policy. Limited enrolment: 15. *A. Sheps*  
 Full Course  
*Prerequisites:* HISB03
- HISC41F Old Huronia**  
**[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS B41F OR C41S]** Political, social, religious and economic life of the Huron Indians and the interaction of Huron and European cultures. Limited enrolment: 15. *J. Moir*  
 Term Half-Course  
*Prerequisites:* HISB05  
*Corequisites:* Field trip to be arranged in September
- HISC41S Old Huronia**  
**[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB41F OR HISC41F]** The same as HISC41F. Limited Enrolment: 15. *J. Moir*  
 Term Half-Course  
*Prerequisites:* HISB05; Field trip to be arranged in Sept.
- HISC42F Church-State Relations in Canada**  
**[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB42S OR HISC42S]** A study of the connection of church and state in such areas as land endowment, education, legal establishment and social issues. Limited enrolment: 15. *J. Moir*  
 Term Half-Course  
*Prerequisites:* HISB05
- HISC42S Church-State Relations in Canada**  
**[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB42S OR HISC42F]** The same as HISC42F. Limited enrolment: 15. *J. Moir*  
 Term Half-Course  
*Prerequisites:* HISB05
- HISC45Y Canadian Intellectual History**  
**[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB45Y]** This seminar will focus upon the following themes in Canadian social and political thought: the intellectual assumptions apparent in contemporary discussion of Confederation; native Cana-

dian imperialism; continentalism; autonomism; French-Canadian nationalism; the social role of religion; the rural myth; the impact of industrialization and urbanization; historiography; and the development of Canadian conservative, liberal, and socialist thought. The main sources will be the writings of journalists, clergymen, academics, labour activists, novelists, politicians, farmers spokesmen, historians, satirists, and royal commissioners. Limited enrolment: 15.

*I. Robertson*

*Prerequisites:* HISB05; HISB06

## Humanities

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

At Scarborough College, courses in the Humanities are offered by the various disciplines which comprise the Humanities Division. However the student who also wishes to explore the Humanities outside the traditional disciplinary framework, is encouraged to consider the courses listed below which provide a means of doing so. For senior students, the Individual Study Year provides a challenging alternative to a conventional program of study. Most of the offerings listed here are unique to Scarborough College and reflect the particular interests of its students and faculty.

- HUMA01Y Prologue\***  
 Full Course  
 Twenty books of central importance in Western civilization will be read. This course will have no formal lectures or timetable; students may complete the readings at any time. A comprehensive examination will be given at the completion of each subset of ten books; the student may request these examinations at any time before the end of the annual examination period. 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 or bi-weekly informal sessions guest hosts will lead a discussion or present tapes, films, slides, etc.; concerning some of the books. Texts: *The Bible* (in part); Homer, *The Odyssey*; Sophocles, *Oedipus Rex*; Plato, *Last Days of Socrates*; Aristotle, *Poetics*; Plutarch, *Lives*; Augustine, *Confessions*; Dante, *Inferno*; Machiavelli, *The Prince*; Erasmus, *In Praise of Folly*, *El Cid*; Rabelais, *Gargantua and Pantagruel*; Bunyan, *Pilgrim's Progress*; Vasari, *Lives of the Artists*; Harvey, *Motion of the Heart and Blood*; Goethe, *Faust I*; Marx, *Capital I*; Darwin, *Origin of Species*; Freud, *Interpretation of Dreams*; Wagner, *The Ring of the Nibelungen*. P. Gooch; J. Warden

- HUMA51Y Introduction to Music**  
 A study of the basic materials, principles of design, and cultural

\*"what's past is prologue" Shakespeare, *Tempest* II.i.



Full Course 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.

[HUMB01S Emergence of Modern Prose]  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS LITB01]

Term  
Half-  
Course

[HUMB02F Guilt and Conscience in Post-World War II Literature]  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS LITB02]

Term  
Half-  
Course

[HUMB07S "The Ulysses Factor": The "Odyssey" motif from Homer to the present]  
Course not offered in 1973-74.

Term  
Half-  
Course

HUMB08F Orpheus: The Quest for Beauty  
A study of the myth of Orpheus, as a recurrent motif in art, religion, literature, music and film. The following materials will be included (in translation): *The Orphic Hymns*, Apollonius Rhodius *The Voyage of the Argonauts*, Virgil *Georgics*, Ovid *Metamorphoses*, Sir Orfeo, Gluck *Orfeo*, Rilke *Sonnets to Orpheus*, Anouilh *Eurydice*, Cocteau *Orphée*, *Black Orpheus*; W.K.C. Guthrie *Orpheus and Greek Religion*, E. Sewall *The Orphic Voice*. J. Warden

Term  
Half-  
Course

[HUMB10F Utopia: From More to Huxley]  
Course not offered in 1973-74.

Term  
Half-  
Course

[HUMB11Y The Art of Satire]  
Course not offered in 1973-74.  
*Prerequisites:* One previous course in Literature

Full  
Course

[HUMB15Y 19th Century Poetry: Aestheticism]  
Course not offered in 1973-74.  
*Prerequisites:* Reading knowledge of Spanish or French

Full  
Course

[HUMB21S Love and Friendship: the views of the Greeks and Romans]  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB06]

Term  
Half-  
Course

HUMB23S The Age of Augustus  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB08] 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. I. McDonald

Term  
Half-  
Course

HUMB25F The Age of Homer  
The world of Homer's heroes as described in the *Iliad* and revealed through archaeology. The course will cover the development of early Greek epic poetry and will offer a survey of Mycenaean remains. Required reading will include Homer's *Iliad* in translation, as well as general accounts of the Mycenaean era. M. Shaw

Term  
Half-  
Course

HUMB41F Women in Ancient Greece  
A study of women in Greece from the time of Homer to the fourth century B.C. The course will consider the role of women and the attitude of society toward them in this period. Reading in translation will include selections from Homer, Hesiod, the lyric poets, the historians, philosophers and dramatists. E. Irwin

Term  
Half-  
Course

HUMB42F Images of Women in French Literature  
In *The Second Sex* Simone de Beauvoir asserts "one is not born a woman; one becomes one." This course will investigate to what extent prominent male authors from the seventeenth century to the present reflect this metamorphosis alluded to by de Beauvoir, and in what ways they contribute to it by their description of femininity. The reading list includes *The Second Sex* and works by Molière, Diderot, Michelet, Flaubert, Zola, Breton, Bazin and Genet (in English translation). Students with a solid background in French will be encouraged to read them in the original. C. Jennings

Term  
Half-  
Course

HUMB43S Women's Consciousness in French Literature  
An analysis of the status of women and the concept of femininity as experienced and described by prominent female authors from the seventeenth century to the present. The reading list includes Simone de Beauvoir's *The Second Sex*, and works by de La Fayette, Sand, Colette, de Beauvoir, Mallet-Joris, Leduc, Sarraute and Rochefort. C. Jennings  
*Prerequisites:* HUMB42 recommended

Term  
Half-  
Course

**[HUMB51Y Music in the Contemporary World]**

Course not offered in 1973-74.

*Prerequisites:* HUMA25

Full  
Year  
Course

**[HUMB52Y The Music of the World's Peoples]**

Course not offered in 1973-74.

*Prerequisites:* HUMA25

Full  
Course

**HUMB61H Society and Culture in Latin America**

A view of Latin America in its social and political life as well as its literary and cultural expression from the 19th century to the present. Eight major social and political issues and eight literary and artistic themes will be chosen and each one will be discussed in a series of three sessions. *J. deLannoy; J. Maillard*

Year-Long  
Half-  
Course

**HUMB62F Topics in Contemporary Latin-American Literature in Translation**

Examples of contemporary Latin-American literature will be examined from a specific literary and philosophical point of view. Topics will be chosen from the following:- the novel, with special reference to Guzmán, Machado, d'Assis and Mallea; two Mexican views of the Mexican character; the short story; Borges, Cortázar and Mallea. *P. León*

Term  
Half-  
Course

**HUMB71Y Introduction to Cinema**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB09] The course introduces the student to the vocabulary of film criticism, major aesthetic approaches, general history of the film, and the rudiments of technique. Films will be shown on the average of one each week. Limited enrolment: 40. *B. Martineau*  
*Prerequisites:* One previous course in Literature or Fine Art

Full  
Course

**[HUMB72F Art, Politics & Revolution]**

Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB12]

Term  
Half-  
Course

**[HUMB73Y Experience, Communication and Language]**

Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB03] An inquiry into the nature of human experience and problems of communication. The main objective of this course is to investigate the theoretical and methodological implications of experiential theory. Readings will be taken from such sources as philosophy, psychology, linguistics, the arts,

Full  
Course

and education. Major concentration in at least one of the above areas is desirable. Limited enrolment: 30. *S. Amenta*

**HUMB74Y Contemporary Cultures in Question**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB13] The goal of this course is to enable students to adopt a mature and responsible attitude towards the problems which contemporary man has to face, by bringing them in contact with the minds whose contributions have had a decisive impact on the evolution of Western Culture in the last hundred years! Nietzsche, Freud, Marx, Malraux, Sartre, Beckett, Rogers, Toffler, Fanon, and others will be discussed. The entire class will meet for two hours weekly. Once every other week, the four instructors will discuss as a panel the readings for the week. The class will then break into four seminar groups to discuss the readings and the previous hour's panel discussion. On alternate weeks the groups will discuss papers to be presented by members of the seminars. *L. Mignault, S. Farrell, E. Irwin*

Full  
Course

*Prerequisites:* Any A-level course

**HUMB90Y Creative Writing: An Introduction**

This course provides student writers with the time and incentive to work seriously at their writing within an academic framework. Two 2-hour tutorials per week include Writing Fiction, which will deal with the students' own writing. Contemporary Novelists, discussing the work of selected authors writing now and not yet studied in modern literature courses. Students are expected to produce a substantial amount of creative work, which may consist of short stories (5 or 6 of about 2500 words each), OR a portion of a longer work such as a novella or novel (about 10,000 to 15,000 words), OR a collection of poems (20 to 30). In addition, students will be required to present 2 or 3 papers on the post modern novelists of their choice. Admission to this course is at the discretion of the instructor, who will base his judgement on samples of writing which students must supply. Enrolment is limited to 12. Interviews with samples will be held during the first two days of registration. *M. Myers*

Full  
Course

**[HUMC01S Lyric Poetry of the Middle ages in the Mediterranean Area]**

Course not offered in 1973-74.

*Prerequisites:* A B-level course in either a Romance Literature or English Literature

Term  
Half-  
Course

**HUMC02Y A seminar in Literary Theory and Practice**

A study of critical theories from Plato and Aristotle to Eliot and Northrop Frye. Major literary works from different periods will be

Full Course read, and attention given to the question of whether critical theory is able to account for the scope and variety of these works. *E. Vicari, J. Warden*

*Prerequisites:* One B-level Literature Course; two other Literature Courses

#### **HUMC95- HUMC99Y Individual Study Year**

Full Course 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. 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 one of the following: [For a year of individual study, students *must* enrol in all five courses. Those who wish to take Individual Studies or Directed Reading within a conventional programme of study should consult the following listings: LATB30-39, LATC01/2, FREC02/3, FREC04/5, HISC01/2, ITAB50-59, LINC01/2, PHLB95-99, SPAC02/3.]

*Prerequisites:* Permission of the Divisional Committee in Individual Study

## **Italian**

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. Students with Grade 13 Italian (or equivalent), take ITAB02 which is the prerequisite for literature courses as well as for the more advanced language courses. In both 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 Art, 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. For further information consult Prof. A. Franceschetti.

#### **ITAA01Y Introductory Italian**

Full Course [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ITA001] Elements of Italian grammar, with attention given to oral practice in classroom and laboratory. Short contemporary texts will be studied. *G. Katz*

#### **ITAB02F Intermediate Italian**

Term Half-Course [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ITA002] Intensive review of the grammar, with drills, exercises and compositions. *E. Costa*

#### **ITAB04S Advanced Composition and Conversation**

Term Half-Course [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ITA004] Study and analysis of selected texts, translations and compositions. *E. Costa*

#### **ITAB12H The Twentieth Century Novel**

Year-Long Half-Course [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ITAB11] A survey of themes and trends in the novel, with attention given to the social, political, and intellectual conditions of the Fascist and post-Fascist era. *S. Mittler*  
*Prerequisites:* ITA002 or ITAB02

#### **ITAB21Y Introduction to Italian Literature**

Full Course A survey of Italian literature, from the Middle Ages to the present. *E. Costa*  
*Prerequisites:* ITA002 or ITAB02

#### **ITAB31Y Dante and Mediaeval Culture**

Full Course Introduction to Mediaeval Italian literature with special reference to Dante. *A. Franceschetti*  
*Prerequisites:* ITA002 or ITAB02

#### **[ITAB32S Petrarch and Boccaccio]**

Course not offered in 1973-74.  
Term Half-Course *Prerequisites:* ITA002 or ITAB02

#### **ITAB33F Aspects of Italian Thought in the XV and XVI Centuries**

Term Half-Course A study of the origins and development of Italian Humanism with reference to Petrarch, Boccaccio, Valla, Ficino, Pico, Machiavelli, Guicciardini and Castiglione. *A. Franceschetti*  
*Prerequisites:* ITA002 or ITAB02

#### **[ITAB34S The Renaissance Epic]**

Course not offered in 1973-74.  
Term Half-Course *Prerequisites:* ITA002 or ITAB02

**[ITAB36F Lyric Poetry of the Renaissance (from Poliziano to Michelangelo)]**  
**Course not offered in 1973-74.**

*Prerequisites:* ITA002 or ITAB02

Term  
 Half-  
 Course

**[ITAB40S Reformation and Baroque Literature]**  
**Course not offered in 1973-74.**

*Prerequisites:* ITA002 or ITAB02

Term  
 Half-  
 Course

**[ITAB41S Italian Eighteenth Century Theatre]**  
**Course not offered in 1973-74.**

*Prerequisites:* ITA002 or ITAB02

Term  
 Half-  
 Course

**ITAB43F Foscolo and Leopardi**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ITAB42] Reading and analysis of selected works, with attention to Foscolo's Neo-Classicism, and characteristics of Italian Romanticism.  
*E. Costa*

*Prerequisites:* ITA002 or ITAB02

Term  
 Half-  
 Course

**ITAB44S Manzoni**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ITAB42] A study of Manzoni's lyric poetry, tragedies, and /

*promessi sposi. S. Mittler*

*Prerequisites:* ITA002 or ITAB02

Term  
 Half-  
 Course

**ITAB50F Supervised Reading**

**ITAB51F See Calendar p. 31.**

**ITAB52F** *Prerequisites:* ITA002 or ITAB02

**ITAB53F** *Corequisites:* ITAB21 or ITAB31

**ITAB54F**

Term  
 Half-  
 Course

**ITAB55S Supervised Reading**

**ITAB56S See Calendar, p. 31.**

**ITAB57S** *Prerequisites:* ITA002 or ITAB02

**ITAB58S** *Corequisites:* ITAB21 or ITAB31

**ITAB59S**

Term  
 Half-  
 Course

## Latin American Area Studies

The University of Toronto offers a programme in Latin American Studies. Full details of the programme are given in the current St. George Campus Calendar. At Scarborough College a number of courses relevant to the programme can be taken. These are: Spanish A01, B02, B28, B33, Anthropology B03, and Humanities B19, B32, Sociology C17.

Further information about Latin American Area Studies may be obtained from Professor Pedro León, H507A, who will offer advice also on possible combinations of courses in this area.

## Linguistics

Linguistics is the study of language as a phenomenon of human behaviour. As the essence of language is speech and the psychological realities underlying it, the courses offered may be grouped as follows: the description of the sounds and forms of language (LINA02, LINA03, LINB01, LINB02 and LINB03), the history of the sounds and forms of language (LINB04), and the study of several aspects of language use: meaning (LINB06), social and cultural functions (LINB07), psychology of language (LINB05). For further information consult Prof. R. I. Binnick. Students should consult listings under:

**ANTB09 History of Ethnological Theory**

**GRKA01 Introductory Greek**

**LATA01 Introductory Latin**

**ENGB02 Chaucer**

**FREB46 Principles of lexicology and their application to Modern French**

**FREB48 Theoretical and Practical Phonetics**

**MATA55 Introduction to Computing**

**MATB68 Programming Languages and their Applications**

**PHLB80 Philosophy of Language**

**PSYA01 Introduction to Psychology**

**PSYB20 Developmental**

**PSYB50 Sensing and Perceiving**

**PSYB60 Physiological Psychology**

**SOCA01 Introduction to Sociology**

**SPAB04 Phonetics**

**LINA02F General Linguistics I**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS LINA01] An introduction to the study of language, with reference

Term Half- Course	to topics such as: what is language? animal communication, the psychology and neurology of language, meaning, the sounds and development of language. <i>J.D. Woods</i>
<b>LINA03S</b>	<b>General Linguistics II</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS LINA01] Various methods of linguistic analysis will be discussed as well as the sound and form systems which make up language. <i>R. Binnick; J.D. Woods</i> <i>Prerequisites:</i> LINA02
Term Half- Course	
<b>[LINB01F]</b>	<b>Bases of Linguistic Theory]</b> Course not offered in 1973-74. <i>Prerequisites:</i> LINA01, or LINA02; LINA03
Term Half- Course	
<b>LINB02S</b>	<b>Phonology</b> 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. <i>J.D. Woods</i> <i>Prerequisites:</i> LINA01, or LINA02; LINA03
Term Half- Course	
<b>LINB03F</b>	<b>Syntax</b> Contemporary views of larger linguistic units, their analysis and constitution. Immediate constituent analysis and the transformational-generative approach. <i>R. Binnick</i> <i>Prerequisites:</i> LINA01, or LINA02; LINA03
Term Half- Course	
<b>[LINB04S]</b>	<b>Historical and Comparative Linguistics]</b> Course not offered in 1973-74. <i>Prerequisites:</i> LINA01, or LINA02
Term Half- Course	
<b>LINB05S</b>	<b>Psycholinguistics</b> Primary language acquisition; language encoding and decoding; the perception of speech. <i>P. Salus</i> <i>Prerequisites:</i> LINA01 or LINA02
Term Half- Course	
<b>[LINB06S]</b>	<b>Semantics]</b> Course not offered in 1973-74. <i>Prerequisites:</i> LINB03
Term Half- Course	

<b>LINB07Y</b>	<b>Sociolinguistics</b> The structure and use of language as it relates to social and cultural functions. The application of a sociolinguistic research to Canada will comprise approximately half of the year's work. <i>S. Whalen</i> <i>Prerequisites or Corequisites:</i> LINA01, or LINA02 or SOCA01 or SOCA02
Full Course	
<b>LINB08S</b>	<b>Scripts</b> Alphabets and other writing systems, their history, development and use. Hieroglyphics, Cuneiform, and other ancient scripts. History of the Latin and related alphabets. <i>R. Binnick</i> <i>Prerequisites:</i> LINA02F
Term Half- Course	
<b>LINC01F</b>	<b>Supervised Reading</b> See Calendar p. 31. <i>Prerequisites:</i> At least one B-level course in Linguistics; permission of instructor
Term Half- Courses	
<b>LINC02S</b>	<b>Supervised Reading</b> See Calendar, p. 31. <i>Prerequisites:</i> At least one B-level course in Linguistics; permission of instructor
Term Half- Courses	

## Mathematics

Mathematics is the Queen of Sciences. In all periods of recorded times Mathematics has been part of human culture. Before 500 B.C. the Pythagoreans stated that numbers rule the universe. Plato said that God ever geometrizes and in this century Einstein remarked that it is Mathematics that gives the natural sciences a certain measure of security.

The impulses for mathematical research come from pure creative curiosity, the need to explain and prove to others that something is true and the need to organize and clarify scientific knowledge. At present mathematical methods are being applied to all fields of knowledge.

The interaction between Mathematics and the other Sciences is and has always been extremely advantageous. Once a physical problem has been described in mathematical terms it is often easier to analyze. In addition mathematical results often guide and stimulate analogous scientific research. On the other hand many mathematical theories originate in science and find their real importance in application.

Students who intend to specialize in Mathematics are advised to register initially in MATA40, MATA45 and MATA55. Students who have a special interest in Computer Science should in addition take MATA58 and MATA68.

Programs of study should be chosen individually in consultation with a faculty member. Normally courses will be chosen from the following selection: MATB25,

MATB40, MATB45, MATB46, MATB50, MATB51, MATB53, MATB55, MATB56, MATC46, MATC50, MATC55, MATC60, MATC65. Students who are interested in Computer Science should take MATB68, MATB73, MATB78. Students who are interested in applications to the Physical Sciences should take MATB41, MATB46, MATB51, MATB56. Students who are interested in applications to the Social and Natural Sciences should take MATB52 and MATB57.

Students who have a general interest in Mathematics or Computer Science but who do not wish to specialize in it could take MATA20, MATA25, MATA26, MATA58, MATB41.

The Grade 13 prerequisites for appropriate courses are stated as "Grade 13 F & R for Functions and Relations, C for Calculus, A for Algebra".

**MATA20F Nature of Mathematics**

A brief introduction to the major branches of mathematics with an emphasis on historical development. Algebra: From digit to the real numbers of Cauchy and Dedekind to "modern" abstract algebra. Geometry: From Euclid to the non-Euclidean geometries of Bolyai, Gauss, Riemann and Lobachevsky, to differential geometry and topology. Analysis: From Descartes to Newton to Cauchy and Fournier. Logic: From Aristotle to Boole to Russell to Goedel. A term paper will be required. *E. Mendelsohn*

**MATA25S Mathematics and Society**

Introduction to the nature of applied mathematics. Topics include statistics, probability, thermodynamics, relativity, econometrics, and game theory. Operations Research. The emphasis is on the specific non-mathematical problems which led to the development of a branch of applied mathematics and how this mathematical approach helped to solve the original problem. A term paper will be required. *Prerequisites: MATA20*

**MATA26Y Techniques of Calculus**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATA55. STUDENTS WHO WISH TO CONTINUE THEIR STUDIES IN ASTRONOMY, MATHEMATICS, PHYSICS, CHEMISTRY (PHYSICAL AND INORGANIC) SHOULD NORMALLY ENROL IN MATA55] Inequalities. Derivatives and their geometrical and physical applications. Maxima-minima problems. Integration. Areas and volumes. Matrices and linear equations. Derivatives of vector functions. Derivatives of functions of several variables. Multiple integrals. *J.S. Halperin; P. Keast*  
*Prerequisites: Grade 13 F & R or C or A*

**MATA40F Introduction to Linear Algebra**

Euclidean spaces. Vectors. Located vectors. Scalar product. Norm. Cross product. Linear geometrical applications in the real 2- and 3-dimensional space. Introduction to an axiomatic definition of vector spaces. Linear dependence. Definition of basis and dimension.

The vector space of  $m \times n$  matrices. Systems of linear equations.

*Prerequisites: Grade 13 F & R or C or A*

**MATA45S Linear Algebra I**

Axiomatic definition of vector spaces. Basis and dimension. Direct sum. Multiplication of matrices. Matrices and linear maps. Orthonormal bases. Determinants. Cramer's rule. The inverse of a matrix. The rank of a matrix. Eigenvalues. Geometrical applications.  
*Prerequisites: MATA40*

**MATA55Y Calculus**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATA26] Continuity. Differentiation. Riemann Integral. Sequences. Series. Taylor Theorem. Introduction to functions of two variables. Emphasis on rigour and proofs. *J.B. Wilker*  
*Prerequisites: Grade 13 F & R; C*

**MATA58F Introduction to Computing**

Algorithms and flow charts. Introduction to computer organization and assembly language. Programming in a high-level language such as PL/1. Elementary applications.  
*Prerequisites: Grade 13 F & R or C*  
*Corequisites: MATA26 or MATA40 or MATA55*

**MATA68S Problem Solving with Computers**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB58] Computer applications. Non-numerical problems and simulations. Validity of computer models. Topics from graph theory, data processing and other non-numerical areas.  
*Prerequisites: MATA58*

**MATB25Y Geometry**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB30 OR MATB35] 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. The theorems of Desargues and Pappus. Projectivities, homologies, elations. The fundamental theorem of projective geometry.  
*Prerequisites: MATA45*

**MATB40F Linear Algebra II**

Dual space. Inner product spaces. Orthonormal basis. Reduction of symmetric matrices. Canonical forms. Spectral properties.  
*Prerequisites: MATA45*

- MATB41F**    **Vector Calculus**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB50] Differential and integral calculus of scalar and vector functions of a vector variable, with emphasis on two-dimensional cases. Green's theorem and Stokes' theorem. (This course concentrates on computational techniques with a careful statement of results but little emphasis on proofs.)  
*Prerequisites:* MATA26 or MATA55
- MATB45S**    **Linear Algebra III**  
 Orthogonal, symplectic and hermitian spaces. Isometries. Reflections. Witt's theorem. Isotropic subspaces. The orthogonal group. The general linear group. Tensor products. Exterior algebra. *E.W. Ellers*  
*Prerequisites:* MATB40
- MATB46S**    **Applied Mathematics and Mechanics**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHYB02] Methods of Lagrange and Hamilton. Variational principles. Rigid body motion. Special relativity. Hamilton-Jacobi theory. *J.S. Halperin*  
*Prerequisites:* MATB51; MATB50; PHYA01 or PHYA02
- MATB50F**    **Analysis**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB41] 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.  
*Prerequisites:* MATA55; MATA45
- MATB51F**    **Differential Equations I**  
 Some special first order equations. Reduceable second order equations. First order equations of higher degree in algebraic form. Envelopes and singular solutions. Direction field. Orthogonal trajectories. First order equations in normal form. Lipschitz condition. Existence. Uniqueness. Continuous dependence. Second order linear equations.  
*Prerequisites:* MATA55; MATA45  
*Corequisites:* MATB50
- MATB52F**    **Probability and Statistics I**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB07 AND SOSA01] Sample space, random variables, univariate and bivariate distributions. Point and interval estimations. Tests of significance, parametric and non-parametric. Selected applications to

psychology, sociology, industrial problems, medical research, etc. *A. Rapoport*  
*Prerequisites:* MATA55 or MATA26

- MATB53S**    **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.  
*Prerequisites:* MATA58  
*Corequisites:* MATA40; MATA55

- MATB55S**    **Analysis II**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB41] 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.)  
*Prerequisites:* MATB50

- MATB56S**    **Differential Equations II**  
 Linear differential equations. Power series solutions. Laplace transforms. Boundary value problems. Eigenvalue problems. Calculus of variations or critical points and stability theory.  
*Prerequisites:* MATB51

- MATB57S**    **Probability and Statistics II**  
 Regression and correlation. Analysis of variance. Distributions of functions of random variables. Characteristic functions. Sufficiency. Efficiency. Completeness. Likelihood estimates. Selected applications to psychology, sociology, industrial problems and medical research. *A. Rapoport*  
*Prerequisites:* MATB52

- MATB68F**    **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.  
*Prerequisites:* MATB58 or MATA68

- MATB73F**    **Computer Organization**  
 Computer structure, machine language, instruction execution, addressing techniques and digital representation of data. Computer system organization. Memory storage devices. Survey of logic design and microprogramming. Some case studies of actual machines to

illustrate various computer architectures.

*Prerequisites:* MATB58 or MATA68 (or MATA58; permission of instructor)

**MATB78S**     **Assembly-Language Programming and Applications**  
 Introduction to assembly-language programming. Macro definition and generation, symbolic address mapping, program segmentation and subroutine linking. Applications.  
*Prerequisites:* MATB58 or MATA68 (or MATA58; permission of instructor)

**MATC46Y**     **Algebra**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATC40 AND MATC45] The structure of groups, rings, fields. Integers, congruence, factorization. Rational, real and complex fields. Euclidean domains, polynomials, factorization and quotient fields, field extensions and finite fields, finite groups, Galois theory.  
*Prerequisites:* MATB45; one other B-level full Mathematics course

**MATC50F**     **Real Analysis I**  
 Algebra of sets. Mappings. Schröder-Bernstein theorem. Axiom of choice. Metric spaces. Compactness. Completeness. Separability. Baire's theorem. Arzela-Ascoli theorem. Hausdorff spaces. Local compactness. Tychonov's theorem.  
*Prerequisites:* MATB55

**MATC55S**     **Real Analysis II**  
 Lebesgue integral in  $\mathbb{R}$  and  $\mathbb{R}^k$ . Borel sets. Measurable sets. Lebesgue bounded convergence theorem. Fubini theorem. Hilbert and Banach spaces. Dual spaces. Linear mappings. Hahn-Banach theorem. Closed graph theorem. Applications to  $L^2$  and  $L^p$ . Compact operators. Fredholm operators. Fredholm alternative. Spectral theory of compact operators. Applications to integral equations and to the Dirichlet problem.  
*Prerequisites:* MATC50

**MATC60F**     **Complex Analysis I**  
 Complex plane. Riemann sphere. Möbius transformations. Holomorphic functions. Cauchy's integral formula. Taylor and Laurent expansions. Residue calculus.  
*Prerequisites:* MATB55 or MATB41

**MATC65S**     **Complex Analysis II**  
 Harmonic functions. Dirichlet problem. Analytic continuation. Normal families and Riemann mapping theorem.  
*Prerequisites:* MATC60

## Music

Music at Scarborough College is considered as 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 additional courses will be added in succeeding years. For further information consult Prof. H. Wittmann.

**Students should consult listings under:**

<b>HUMA51</b>	Introduction to Music
<b>HUMB51</b>	Music in the Contemporary World
<b>HUMB52</b>	The Music of the World's Peoples

## Natural Science

**Students should also consult listings under:**

<b>MATA20</b>	Nature of Mathematics I
<b>MATA25</b>	Nature of Mathematics II

**NSCA01Y**     **Introduction to Natural Science: The Physical Sciences**  
 This course has two main purposes. It provides a comprehensive introduction to Science for the future teacher, lawyer, economist, governmental official, politician, artist, theologian, social scientist, anthropologist, etc. It is also intended to provide an interesting view of the Physical Sciences for students who plan careers in the Physical and Life Sciences. The intent of the course is to give some historical perspective, with special effort directed to the identification of the common elements and interrelationships that give pattern to the institutions called science and society. A major theme is that of systems or cybernetics, including the concepts of feedback and of stability. The probabilistic and statistical character of natural phenomena, difficulties attending measurement and understanding of natural phenomena, energy transformations and the nature of matter, philosophic and social implications of modern science, and questions of determinacy-indeterminacy constitute other themes. Considerable use is made of films and demonstrations to supplement the lectures. Much of the tutorial time is devoted to discussion sessions. Reading and essay writing are an important part of the course. *J.D. King*

**NSCA02Y**     **Introduction to Natural Science: The Biological Sciences**  
 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 present an integrated view of the biological basis of individuality, social structure and ecological systems. An understanding of problems of environment, resources, population and race is based on a core of biological knowledge. This will be examined in three central categories: Man, inheritance and



society, Population and Resources; The Cybernetics of Ecosystems. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods. *J.C. Ritchie*

**NSCA03Y Quaternary Environments and Man**  
A multidisciplinary course designed to introduce the study of the events and processes that have shaped the physical, biological and cultural aspects of the world in which we live. Specifically, the course will emphasize the inter-disciplinary nature of the diverse fields investigating the last major period in the earth's history, the Quaternary. Included in the presentation will be the findings and methodologies of such disciplines as Geology and Geomorphology, Historical Ecology and Prehistoric Archeology. The format will consist of lectures, tutorials, demonstration laboratories and independent assignments. *B. Greenwood; J.C. Ritchie; H.B. Schroeder*

**[NSCB01S Behaviour Biology: Seminar in Psychobiology]**  
Course not offered in 1973-74.

Term  
Half-  
Course

## Philosophy

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 in the systematic development of a questioning attitude and critical awareness.

Students who wish to specialize in Philosophy should complete at least twelve B-level courses in this subject. Those intending to do graduate work in Philosophy are strongly urged to include within their programmes two courses in Logic, at least two courses in the History of Philosophy, and courses in Theory of Knowledge (PHLB54) and Metaphysics (PHLB55). Members of the faculty in Philosophy will be pleased to offer advice and assistance in the planning of such programmes. For further information consult Prof. P. Gooch.

**PHLA01Y Fundamental Questions of Philosophy**  
A discussion of some of the fundamental questions of philosophy – What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free? *Members of the faculty*

**PHLA02Y Philosophic Classics**  
A consideration of the philosophy of Plato, Russell, Nietzsche,

Full  
Course  
Aristotle, Kierkegaard, Hume and others. Selections will vary from year to year. *Members of the faculty*

**[PHLB15Y Socialism in Theory and Practice]**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HISB15, HISC15, AND PHLB52]  
*Prerequisites:* HISA01

**[PHLB50 Anarchism]**  
Course not offered in 1973-74.

Term  
Half-  
Course

**PHLB51F Morality and Values**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB01] A study of philosophical problems in Ethics – such as relativity of values, the justification of morality, moral scepticism, egoism, utilitarianism.

Term  
Half-  
Course

**PHLB52F Political and Social Philosophy**  
A study of philosophical problems regarding the state and society. Topics may include the individual in society, the coercive state, and the stateless society. *F. Cunningham*

Term  
Half-  
Course

**PHLB53F Symbolic Logic**  
An introduction to formal techniques of reasoning: sentential logic, quantification theory, and probability theory. *H. Sobel*

Term  
Half-  
Course

**PHLB54F Theory of Knowledge**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB33] A study of philosophical problems concerning knowledge and belief. Topics to be discussed may include the nature and sources of knowledge, scepticism, the rationality of belief, the possibility of objectivity, the limits of scientific knowledge, the social dimensions of knowledge. *P. Gooch*

Term  
Half-  
Course

**PHLB55F Metaphysics**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB34] A study of such metaphysical questions as the relation between mind and bodies, the problem of basic objects, and of systematic views of the nature of man and his universe. *D. Mosher*

Term  
Half-  
Course

- PHLB56F** **Philosophy of Religion**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB21] A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism. *P. Gooch; D. Mosher*
- Term  
Half-  
Course
- PHLB56S** **Philosophy of Religion**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB21 and PHLB56F] The same as PHLB56F. *P. Gooch; D. Mosher*
- PHLB57F** **Philosophy and Art**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB23] 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.
- Term  
Half-  
Course
- PHLB60F** **Philosophy in Literature**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB26] An examination of philosophical theories and claims in literary works. Authors may include Camus, Gide, Kafka, Murdoch, Barth, Hesse, Vonnegut. Topics may include the nature of the self, the meaning of life, the subjectivity of values, the character of morality. Authors and topics may vary from year to year.
- Term  
Half-  
Course
- PHLB62F** **Philosophy of Social Science**  
A study of philosophical questions related to the social sciences. What is an explanation and how are theories formed in the social sciences? Can a social science be value free? Is social science bad philosophy or is philosophy an armchair social science? How does social theory interact with social reality? Given in alternate years. *F. Cunningham*  
*Prerequisites:* One course in Philosophy or in the Division of Social Science
- Term  
Half-  
Course
- PHLB63S** **Philosophy of Science**  
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? Given in alternative years.  
*Prerequisites:* One course in Philosophy or in the Division of Science
- Term  
Half-  
Course
- [PHLB64 **Philosophy of History**]  
Course not offered in 1973-74.

- Term  
Half-  
Course
- Prerequisites:* A course in History. A course in Philosophy is recommended
- PHLB65F** **Plato and his Predecessors**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB11] A study of the origins of philosophy in Greece and the views of the earliest philosophers regarding the nature of the world. A consideration of the main aspects of the philosophy of Plato. *P. Gooch*
- Term  
Half-  
Course
- PHLB66S** **Aristotle and Later Greek Philosophy**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB11] A study of the central themes of the philosophy of Aristotle. A consideration of such developments as Stoicism and Epicureanism. *D. Mosher*
- Term  
Half-  
Course
- PHLB67F** **Philosophers of the Middle Ages**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB12] A study of the characteristic views and assumptions of mediaeval philosophers. Authors to be studied may include Augustine, Thomas Aquinas, Anselm and William of Ockham. Some attention will be given to the question of the relation of religion and philosophy. *D. Mosher*
- Term  
Half-  
Course
- PHLB71F** **Philosophy in the Early Modern Age**  
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. Philosophers who dominate this period are Descartes, Leibniz, Locke, Spinoza, Berkeley, and Hume. *D. Savan*
- Term  
Half-  
Course
- PHLB72S** **Kant, Idealism, and Romanticism**  
A study of themes in Kant's philosophy and their development in such philosophers as Fichte, Schelling, Hegel, and Nietzsche. (Emphasis may vary from year to year.)
- Term  
Half-  
Course
- PHLB74S** **Bertrand Russell and the Analytic Tradition**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLC53] A study of Russell and philosophical approaches related to his work. Such figures as Moore, Wittgenstein, Ayer and Wisdom may be discussed.  
*Prerequisites:* One of PHLB53, PHLB54, PHLB65, PHLB66, PHLB67, PHLB71
- Term  
Half-  
Course

- PHLB76F** **Sartre and the Continental Tradition**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB18 OR PHLC54] A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre. *D. Savan*  
*Prerequisites:* One B-level course in Philosophy
- PHLB77S** **Marx and Marxism**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLC55] The philosophies of Marx, Engels, Lenin and others. *F. Cunningham*  
*Prerequisites:* One course in Philosophy, Sociology, Political Science or Economics. PHLB52 is recommended
- PHLB78S** **Contemporary Ethics**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB2 OR PHLC60] A seminar on current moral philosophy. *H. Sobel*  
*Prerequisites:* One B-level course in Philosophy. PHLB51 is recommended
- PHLB79F** **Theories of Mind**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB24] 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. *D. Savan*  
*Prerequisites:* One B-level course in Philosophy or Psychology
- PHLB80S** **Philosophy of Language**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB35 OR PHLC66] Contemporary theories of meaning, reference, grammar and the nature of language.  
*Prerequisites:* One B-level course in Philosophy or Linguistics
- PHLB82S** **Intermediate Logic**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHLB31 OR PHLC70] An extension of quantification theory to include identity and definite descriptions, and a study of topics such as the history, nature and limits of formal systems. *H. Sobel*  
*Prerequisites:* PHLB53 or two courses in Mathematics
- PHLB87** **Contemporary Philosophic Issues**  
**PHLB88** A discussion of philosophers or philosophical claims of contem-

- PHLB89** porary concern. The topic chosen varies from year to year.  
*Prerequisites:* One course in Philosophy

Term  
Half-  
Course

- PHLB95-  
PHLB99** **Independent Studies**  
See Calendar, Page 31.  
*Prerequisites:* One B-level course in any Division; permission of instructor

Term  
Half-  
Course

- PHLC87** **Seminar in Philosophy**  
**PHLC88** The topic varies from year to year.  
**PHLC89** *Prerequisites:* Two B-level courses in Philosophy; or both one B-level course in any Division; permission of instructor

Term  
Half-  
Course

## Physics

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 register initially in PHYA01, MATA40, MATA45, and MATA55. Programmes of study should be worked out individually in consultation with a member of the Physics faculty and the counselling service; normally these would include PHYB01, PHYB04, PHYB05, PHYB08, PHYC01, PHYC03, PHYC05; as well as MATB46, MATB50, MATB51, MATB55, MATB56, MATC60. To qualify as a Physics Specialist, a student would then need to complete PHY303 and three 400-series Physics courses given on the St. George Campus or PHY303 and two 400-series courses and PHYC10. [Students intending to specialize in Meteorology should take PHY303 prior to their last five courses.]

Less intensive programmes are available for those whose major interests do not lie in Physics. Specifically, the pair of courses PHYA02 and PHYB06 cover most major topics in Physics and the principles of their application in some areas of modern technology. An intermediate laboratory course (PHYB08) provides a broad spectrum of experiments for students of PHYB01 or of 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; such an explicit listing is available from the counselling service or the Physical Sciences Group office.

Students should also consult listing under:

**MATB46** Applied Mathematics and Mechanics  
**NSCA01** Introduction to Natural Science: The Physical Sciences

**PHYA01Y** Elementary Mechanics  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHYA02] Motions of single particles and collections of particles, both from the classical and from the relativistic points of view. A laboratory emphasizing mechanics, but also including a variety of other elementary experiments, accompanies the lecture course. This course is intended for students whose major interests are in the Physical Sciences. *J.M. Perz*  
*Prerequisites:* Grade 13 Physics, Grade 13 Calculus  
*Corequisites:* MATA26 or MATA55

**PHYA02Y** Principles of Physics  
 [NOT TO BE TAKEN IN THE SAME DEGREE PROGRAMME AS PHYA01] This course with its laboratory gives a basic treatment of the principles of physics. It is complete in itself but also provides a foundation for those wishing to pursue further courses in physics. It is intended for those who do not expect to continue with major studies in physics. The topics include: mechanics, laws of motion, momentum, energy, special theory of relativity, simple harmonic motion, gravitational forces, thermodynamics, electricity and mag-

netism, waves, light, quanta, atoms, the solid state, the nucleus. *H.C. Corben; G.D. Scott*

*Corequisites:* MATA26 or MATA55

**PHYB01Y** Electricity and Magnetism  
 [NOT TO BE TAKEN IN SAME DEGREE PROGRAMME AS PHYB06] Classical theory of electromagnetism, using the powerful concept of fields and potentials. Electrostatics, electric field, scalar potential, electric currents, magnetostatics, magnetic field, vector potential, fields of moving charges, electromagnetic induction, Maxwell's equations, circuits, electric and magnetic fields in matter. This course is essential to a Physics Specialist Programme. *A.E. Jacobs*  
*Prerequisites:* PHYA01 or PHYA02  
*Corequisites:* MATB41 or MATB50

**PHYB04S** Waves  
 Topics discussed include wave equations, superposition of waves, emission and absorption of waves, impedance, polarization, interference, and diffraction. Applications are made to sound waves, radio waves, light waves, surface water waves, and waves on a string. This course is essential to a Physics Specialist Programme. *M.B. Walker*  
*Prerequisites:* PHYA01 or PHYA02; MATA26 or MATA55

**PHYB05F** Statistical Physics  
 Fundamental topics discussed include the concept of entropy, the laws of thermodynamics, and the uses of ensembles in statistical mechanics. Applications include the kinetic theory of gases, paramagnetism, the specific heats of solids, the thermal contraction of rubber, the separation of isotopes, osmosis, and phase transitions. This course is essential to a Physics Specialist Programme. *M.B. Walker*  
*Prerequisites:* PHYA01 or PHYA02; MATA26 or MATA55

**PHYB06Y** Contemporary Physics  
 [NOT TO BE TAKEN IN SAME DEGREE PROGRAMME AS PHYB01] This broad introduction to the principles and some applications of modern physics is a natural continuation of PHYA02. The core of the course will be the study of electricity and magnetism and the properties of atoms, nuclei, molecules and crystals from the standpoint of quantum theory. Applications will include such topics as lasers, quantum theory of measurement, electron microscopes, X-ray scattering, nuclear reactors, properties of radioisotopes, radiation hazards, semiconductors and superconductors. This course is intended for students whose interests are in the life sciences or in interdisciplinary studies and who wish to

take a second course in Physics. *P.A. Griffin; A.E. Jacobs; J.D. King*  
*Prerequisites:* PHYA02 or PHYA01; MATA26 or MATA55

- PHYB08H** **Intermediate Physics Laboratory**  
 Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01 and PHYB06).  
*Prerequisites:* PHYA01 or PHYA02  
*Corequisites:* PHYB01 or PHYB06
- PHYC01Y** **Quantum Physics**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHYB11] Introduction to the basic ideas of quantum mechanics and to its applications in modern Physics. This course is essential to a Physics Specialist Programme. *P.J. O'Donnell*  
*Prerequisites:* PHYB01; MATB50+  
*Corequisites:* MATB51
- PHYC03Y** **Electromagnetic Fields and Waves**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHYB13] A discussion of Maxwell's equations for free space and in condensed matter. This course is essential to a Physics Specialist Programme. *P.A. Griffin*  
*Prerequisites:* PHYB01, PHYB04, MATB50+  
*Corequisites:* MATB51
- PHYC05H** **Advanced Physics Laboratory**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PHYB15] A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in Physics.  
*Prerequisites:* PHYB08+  
*Corequisites:* PHYC01
- PHYC10Y** **Relativity and Cosmology**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS ASTC10] See listing under Astronomy (ASTC10Y).  
*Prerequisites:* MATB46S; PHYC03Y or permission of instructor

†For 1973-74, these requirements will be waived if the student meets the requirements listed in, and implied by, the 1972-73 calendar.

## Political Science

*Supervisor of Studies:* R. Blair

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 the 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.

A programme of studies for those students wishing to receive Specialist accreditation in Political Science would require a minimum of 8 courses in the discipline, including: (1) an A-level course (2) two courses in Political Theory (3) a course in Canadian Government (4) a course in any three of the following four fields — International Relations; Comparative Government (Developed); Comparative Government (Developing); Political Behaviour. Students who intend to secure Specialist accreditation are requested to consult with the Supervisor of Studies when planning their programmes.

- POLA01Y** **Canadian Government and Politics**  
 A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the Cabinet, Parliament, the Judiciary and the Public Service. *R.S. Blair; J. Esbrey*
- POLA02Y** **Introduction to Politics**  
 A study of both the theory and practice of politics. An analysis will be made of a number of basic political concepts (e.g. power, authority, equality, freedom, democracy, nation, nationalism, consensus, representation, state, ideology, class, interest) with references to various political systems, past and present. Particular emphasis will be laid upon the Canadian political experience. *R.S. Blair*

- [POLA03Y Comparative Government]**  
Course not offered in 1973-74.  
Full Course
- [POLB02F Canadian Political Parties]**  
Course not offered in 1973-74. Both national and provincial parties and party systems are examined. *R.S. Blair*  
*Prerequisites:* POLA01  
Term Half-Course
- POLB03Y Modern Political Thought**  
A study of political theorists of the 18th, 19th and 20th centuries, including Rousseau, Tocqueville, Mill and Marx. *S.J. Colman*  
Full Course
- POLB06Y Political Thought from Plato to Locke**  
A discussion of the political thought of Plato, Aristotle, Augustine, Aquinas, Machiavelli, Hobbes and Locke. *E. Andrew*  
Full Course
- POLB10Y International Relations**  
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. *A. Rubinoff*  
Full Course
- POLB12Y Politics and Society in Independent Africa**  
Although the focus of this course is independent Africa, it is about the generic problems of underdevelopment in the third world and the possibilities for progressive change. The three major questions with which the course grapples are the following:— To what extent is the fate of poor African countries determined by such external factors as the colonial legacy and what is often referred to as “neo-colonialism” or “neo-imperialism”? To what extent are progressive developmental policies blocked by the power of new vested interest groups created by rapid political and economic change in African countries? What are some of the major political institutions and development strategies through which governments seek to direct change, and how effective are their efforts, given the constraints upon their freedom of action? *K.R.J. Sandbrook*  
Full Course
- POLB17Y The Chinese Political System**  
An analysis of Chinese political institutions, behaviour and thought, with primary emphasis on the contemporary political system since 1949. *V. Falkenheim*  
Full Course

- POLB18Y Comparative Politics of Western Europe**  
An examination of the development of modern political systems through comparative study of France, Germany, Great Britain, and Italy. Wherever possible, reference will also be made to some of the smaller West European countries, such as Belgium, the Netherlands, Switzerland, Austria, and Sweden. Special emphasis will be given to: (1) the different responses to democratisation, industrialisation, and nationalism; (2) the relationship between values and institutions; (3) the problems posed for parliamentary democracy by industrial concentration and governmental intervention in society. *G. Friesen*  
Full Course
- POLB19F Canadian Federalism**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS POLB14Y] The theory and practice of modern Canadian federalism. Each student will be expected to develop one specific aspect of the course in greater depth, e.g., the role of the courts, constitutional amendment, the machinery of federal-provincial relations, fiscal issues, federalism and the party system, federalism and international relations, etc. *J. Esbrey*  
*Prerequisites:* POLA01  
Term Half-Course
- POLB20S Provincial and Local Government**  
An inquiry into the extent to which provincial and local governments in Canada are conducive to such basic political values as liberty, participation and efficiency. It deals formally with questions of structure, processes and policy, in the framework of recent attempts at reform. *J.S. Dupré*  
*Prerequisites:* POLA01  
Term Half-Course
- POLB23Y Politics and Society in the U.S.S.R.**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SOSB01] The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects. *S. Solomon*  
Full Course
- POLB24Y Psychology and Politics**  
An examination of the relevance of psychological knowledge to an understanding of the political process. Topics to be covered will include: human nature and politics; personality and politics; psychological elements of political leadership, psychological aspects of international relations. *J. Esbrey*  
Full Course
- POLB26Y U.S. Government and Politics**  
A consideration of the three branches of the national government, federalism, and electoral politics. An examination of the nature and function of parties and interest groups in the formation of public  
Full Course

policy. The impact of these institutional structures on attempts at political reform and revolution.

- POLB27S**    **Collective Decision Making**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SOSB04 OR ECOB27] See listing under ECOB27S.  
*Prerequisites:* An A-level course in Political Science or Economics
- Term  
 Half-  
 Course
- POLB28Y**    **Selected Topics in Canadian Government**  
*Prerequisites:* POLA01
- Full  
 Course
- POLC03F**    **Marxism-Leninism**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS POLB11] Readings from the major texts of Marx and Lenin and a discussion of the principal issues in Marxian theory and practice. *E. Andrew*  
*Prerequisites:* POLB03 or POLB06
- Term  
 Half-  
 Course
- [POLC05Y**    **The New Nations in World Politics]**  
**Course not offered in 1973-74.** The role in international affairs of those states which have achieved independence since World War II. *A. Rubinoff*  
*Prerequisites:* A B-level course in Political Science
- Full  
 Course
- POLC06Y**    **Comparative Communism**  
 An analysis of society and politics in the 14 countries currently governed by Marxist-Leninist parties. *V. Falkenheim*  
*Prerequisites:* A B-level course in Political Science
- Full  
 Course
- POLC07Y**    **Reading Course**  
 Advanced Reading Programme in Special Topics. See Page 31.  
*Prerequisites:* One B-level course in Political Science; permission of instructor
- Full  
 Course
- POLC08Y**    **Comparative Foreign Policy**  
 Selected aspects of the foreign policies of France, the Federal Republic of Germany, the Soviet Union, the United States of America, and India. *G. Friesen; A. Rubinoff*  
*Prerequisites:* POLB10 or POLB18
- Full  
 Course
- POLC09S**    **Political Analysis**  
 The relation of theory and research in the study of politics. The effect of research findings upon political values. The nature of
- Term

Half-            explanation in political inquiry. *S. Solomon*  
 Course        *Prerequisites:* A related B-level course in a Social Science

- POLC10Y**    **Modernization and Revolution**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS POLC14] A discussion of three major issues: the explanation of revolution, the strategy and tactics of guerilla warfare, and the thesis that dependent third-world countries can only break out of their underdevelopment through a socialist revolution. *K.R.J. Sandbrook*  
*Prerequisites:* A related B-level course in a Social Science
- Full  
 Course

## Psychology

Psychology is that branch of science which seeks to understand the behavior of organisms. Why humans and infra-humans act as they do is a puzzle which has always challenged men. Philosophers, artists, novelists, theologians have sought the answer through reason and intuition. But can the methods of scientific inquiry be applied to an understanding of behavior? And, if so, what principles do they reveal?

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; and how the presence of other organisms in social settings influence their behavior. The course offerings in Psychology consider how psychologists pursue inquiries in these areas and what knowledge they have gained.

### Specialization in Psychology

The following specialization programme is offered at Scarborough College. It is strongly recommended that those students who wish to pursue a career in Psychology undertake the specialization programme. In this way, future employers or graduate departments will be able to ascertain that the student has followed a programme comparable to a "Majors" programme existing at other universities. A student may include courses on the St. George and Erindale campus in his programme providing that permission to do so has been obtained in advance of registering in these courses.

### Specialist Programme

At least 7 full-course equivalents in Psychology, including among them:

PSYA01 or PSYA02

PSYB07

\*Two of the following: PSYB09, PSYB40, PSYB51, PSYB62

Two of the following: PSYB10, PSYB20, PSYB30, PSYB32, PSYB50

Two C-level half-courses other than PSYC90, PSYC92, or PSYC98

PSYC90, PSYC92 or PSYC98 are strongly recommended for those following the specialist programme.

\*Students planning to undertake graduate study in Psychology should include PSYB09 as one of these two courses.

Students should also consult listing under:

NSCA01 Introduction to Natural Science: The Physical Sciences  
 NSCA02 Introduction to Natural Science: The Biological Sciences  
 HUMB74 Contemporary Cultures in Question  
 LINB05 Psycholinguistics

**PSYA01Y** Introduction to Psychology  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYA02] The basic principles and methods of contemporary Psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behavior is modified by experience, and how their activities are instigated, sustained, and directed. Students interested in gaining laboratory experience in association with their introduction to Psychology may choose PSYA02 in lieu of PSYA01 or may take PSYB09 concurrently with the Spring Term of PSYA01. *Members of the faculty*

**PSYA02Y** Psychology: An Introduction  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYA01 OR PSYB09] Covers the same range of topics as PSYA01 but includes a weekly two-hour laboratory period. *Members of the faculty*

**PSYB07F** Data Analysis in Psychology  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB52 OR SOSA01] Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behavior 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 assumes no mathematical sophistication beyond elementary algebra; it does assume a willingness to master quantitative techniques. *M. Efran; B. Forrin*

**PSYB08S** Experimental Design in Psychology  
 The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex multivariate experiments. The course is highly recommended for all students contemplating supervised individual research in Psychology. *B. Forrin*  
*Prerequisites:* PSYB07 or MATB52 or SOSA01

**PSYB09F** General Experimental Psychology  
 The experimental techniques of Psychology as applied to problems in learning, motivation and perception in infrahuman and human organisms. This course emphasizes research methods in Psychology and is intended to provide a broad foundation of basic information and research techniques required in specialized laboratory courses and advanced courses. Prior or concurrent enrolment in PSYB07 is recommended. *G. Biederman*  
*Prerequisites:* PSYA01 or PSYA02

**PSYB09S** General Experimental Psychology  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB09F] The same as PSYB09F. *G. Biederman*  
*Prerequisite or Corequisite:* PSYA01 or PSYA02

**PSYB10F** Introduction to Social Psychology  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB01] Social Psychology focuses on the problem of how human behavior is influenced by others. Among the questions to be considered are: how do we form impressions of other people; how can we change the attitudes of others; what are the effects of competing or cooperating with others on our attitudes towards them; what are causes of prejudice and how can they be eliminated; and, what determines when people will engage in altruistic behavior? *A. Ross*  
*Prerequisites:* PSYA01 or PSYA02

**PSYB10S** Introduction to Social Psychology  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB01 AND PSYB10F] The same as PSYB10F. *K. Dion*  
*Prerequisites:* PSYA01 or PSYA02

**[PSYB11F]** Social Psychology Laboratory  
 Course not offered in 1973-74. This course will consider in depth the research methods used to gather the data discussed in PSYB10 and PSYB12. All students will conduct social psychological experiments in laboratory and in field settings. In addition to class projects, each student will conduct and write up an individual research project. *A. Ross*  
*Prerequisites:* PSYB07; PSYB10; PSYB12

**PSYB12S** Social Interaction  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYC12] One setting in which human behavior is influenced by others is the social group. The study of human groups and the



Course interaction of their members is called group dynamics. This course addresses itself to such questions of group dynamics as: what are the effects of belonging to a group on a person's behavior; what is the basis of power in a group; what is leadership and who will assume leadership; what are the effects of different group structures on group interaction? These problems and others will be considered from the point of view of the individual in the group.  
*Prerequisites:* PSYB10

**PSYB20F** **Developmental Psychology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB02] 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. *K. Dion*  
*Prerequisites:* PSYA01 or PSYA02

**PSYB20S** **Developmental Psychology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB02 AND PSYB20F] The same as PSYB20F.  
*Prerequisites:* PSYA01 or PSYA02

**PSYB30F** **Personality**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB03] 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. *A. Kukla*  
*Prerequisites:* PSYA01

**PSYB30S** **Personality**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB03 AND PSYB30F] The same as PSYB30F. *M. Efran*  
*Prerequisites:* PSYA01

**PSYB32F** **Abnormal Psychology**  
A critical examination of psychoanalytic, S-R, cognitive-inter-

Term personal, biological and phenomenological views concerning the  
Half- cause and treatment of abnormal behaviour. The conceptual prob-  
Course lem of defining abnormality and categorizing its varieties will be emphasized. *V. Senders*  
*Prerequisites:* PSYA01

**PSYB32S** **Abnormal Psychology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB32F] The same as PSYB32F.  
*Prerequisites:* PSYA01Y or PSYA02

**PSYB40F** **Learning**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB04] 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. *G. Biederman*  
*Prerequisites:* PSYA01 or PSYA02; PSYB07 and PSYB09 are recommended but not required

**PSYB41S** **Operant Conditioning**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYB04] Review of operant conditioning research with laboratory exercises in operant schedules of reinforcement and stimulus control of behaviour. Emphasizes study of the control of steady-state performance and provides opportunity for the observation and control of operant behaviour in infrahuman subjects in the laboratory. Topics include: complex schedules of reinforcement, stimulus control, models of operant behaviour discussion of applications of operant techniques in behaviour modification. *G. Biederman*  
*Prerequisites:* PSYA01 or PSYA02; PSYB07, PSYB09, PSYB40 are recommended but not required

**PSYB50F** **Sensing and Perceiving**  
An investigation of processes by which we gain information and maintain an awareness of our environment. Demonstrations and exercises will illustrate different ideas about sensory systems. Lectures and discussion accompany the practical examples, with the emphasis on the student's understanding of methods for investigating perceiving. Topics will include sensory handicaps, illusions, hallucinations and pain, as well as the normal processes of touch, hearing, and vision. *J. Kennedy*  
*Prerequisites:* PSYA01 or PSYA02

**PSYB51S Perceiving and Knowing**  
 In obtaining information about our environment we both rely on our senses, and make use of various devices, like words, recordings and pictures. Often we also have to question our evidence to see if it should be relied on, and we may find ourselves forced to distinguish between reality and appearance, fact and fiction, possibility and impossibility, picture and pictured, or object and image. In general, we have to make distinctions between various ways in which we can be informed. One of these distinctions will be examined in PSYB51S, bringing together evidence from many quarters, on children as well as adults, other cultures as well as our own, and other species besides homo sapiens. Demonstrations and exercises will form an integral part of the coursework, but prior knowledge of laboratory procedures is not required. *J. Kennedy*  
*Prerequisites:* PSYA01 or PSYA02

**PSYB56F Man and Machines**  
 Man lives increasingly in a world of artifacts in which he shares his environment with machines and spends much of his time interacting with machines. The application of the methods of Experimental Psychology to the relation between man and machines allows us to optimise their interaction so that machines can be matched to human performance characteristics and be designed so as to make them more easily and humanly useable by man. We are now able to design machines which learn and which will adapt themselves to the individual user in ways which show the beginnings of artificial intelligence. In addition to being of practical importance, artificial intelligence raises important philosophical questions about man's nature. This course will introduce students and colleagues, through lectures and readings, to recent studies in the area with particular attention to: ergonomics, the fitting of machines to man; noise, its measurement and effects; adaptive machines; prosthetics; machines as a model of man; and the philosophy of cybernetics. *N. Moray*  
*Prerequisites:* PSYA01 or PSYA02

**PSYB60F Brain Mechanisms and Behaviour**  
 An introduction to the role of physiological mechanisms in behaviour. Topics covered will include neuroanatomy movement, sensory systems and the physiology of learning and motivation. *W. Milgram*  
*Prerequisites:* PSYA01 or PSYA02

**[PSYB62Y Research in Physiological Psychology]**  
 Course not offered in 1973-74. During the first term this course will teach basic techniques used in the investigation of brain function. During the spring term students will do original supervised research in groups or individually. *W. Milgram*

*Prerequisites:* PSYA01 or PSYA02  
*Prerequisites or Corequisites:* PSYB60; PSYB07, PSYB08, PSYB09 are recommended

**PSYC22F Socialization Processes**  
 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 behaviours) and the context in which it occurs (e.g., family, peer group, etc.) Material will be drawn from both social and developmental psychology. Limited enrolment — 25. *K. Dion*  
*Prerequisites:* PSYB10; PSYB20

**PSYC33F Personality and Social Interaction**  
 An examination of the role of nonverbal behaviour and social interaction. Research strategies and data based on both traditional psychological models and the more biologically oriented ethological approach will be considered. Among the topics to be discussed are non-verbal communication and social regulation in man and other animals, personal space and related territorial-like behaviours, selected man-environment issues such as overcrowding, and the meaning of selected nonverbal behaviours such as facial expressions and body movements. *M. Efran*  
*Prerequisites:* PSYB03 or PSYB30; one other B-level course in Psychology

**PSYC34S Thought and Action**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYC32S] Theory and research concerning the relationship between cognition and motivation. Topics will include S-S versus S-R theory, Lewin's field theory, the theory of achievement motivation, cognitive dissonance, internal versus external control, attribution theory. Facility with high school algebra will be assumed. Enrolment limit — 50. *A. Kukla*  
*Prerequisites:* PSYB30; one additional B-level course in Psychology

**PSYC35S History of Psychology**  
 A history of man's attempts to understand his own nature from the early times when philosophy and reflection was the principle method to the modern era of the application of scientific method to our understanding of the laws of human behaviour. Limited enrolment — 35. *V. Senders*  
*Prerequisites:* PSYA01 or PSYA02; two B-level courses in Psychology

**[PSYC40S Current Topics in Animal Learning]**  
 Course not offered in 1973-74. A review of recent developments in

Term animal learning with emphasis on discrimination learning and avoidance conditioning. *G. Biederman*  
 Half-  
 Course *Prerequisites:* PSYB40 or PSYB41

**PSYC41S** **Psychobiology of Learning and Motivation**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS NSCB01] Seminar analyzing and evaluating recent developments in the structural and functional basis of learning and motivation. *G. Biederman; W. Milgram*  
 Term  
 Half-  
 Course *Prerequisites:* PSYB60 or PSYB40 or PSYB41

**PSYC50S** **Attention and Performance Theory**  
 Offered in alternate years; offered in 1973-74. Recently there has been a renewed emphasis on attention in Psychology, since it has come to be realized that a study of the topic is central to an understanding of the limits on the rate at which humans process information. In this course both qualitative and quantitative approaches will be discussed. A course in Statistical Methods, Mathematics or Physics is recommended to ensure numerical competence. *N. Moray*  
 Term  
 Half-  
 Course *Prerequisites:* One B-level course in Psychology

**[PSYC56S** **Man and Machines Seminar]**  
 Offered in alternate years; not offered in 1973-74. An introduction to research methods in human factors Psychology. Students will carry out experimental projects on which their assessment will be based. Possible topics for projects will be the rational design of instrument panels, adaptive training devices to optimise human learning, programming a computer to show simple learning or problem-solving, the role of the human operator in a control system, simulation of vehicle control. Some projects will necessitate learning to program a small on-line computer. In addition, all students will be expected to study readings in the philosophical and social problems of man and his relation to machines. Limited enrolment – 30. *N. Moray*  
 Term  
 Half-  
 Course *Prerequisites:* PSYB56

**PSYC80S** **Foundations of Psychology**  
 An analysis of selected philosophical issues as they concern the discipline of Psychology, and of Psychology's relevance to the problems of Philosophy. Discussed will be such topics as: behaviorism and phenomenology; the mind-body problem; free will and determinism; distinctions, if any, between Psychology and traditional scientific disciplines. Limited enrolment – 20. *A. Kukla*  
 Term  
 Half-  
 Course *Prerequisites:* Three B-level courses in Psychology; one B-level course in Philosophy

**PSYC90F** **Supervised Readings in Psychology**  
 See Calendar Page 31. *Members of the faculty.*  
 Term  
 Half-  
 Course *Prerequisites:* Three courses in Psychology; permission of instructor

**PSYC91S** **Supervised Readings in Psychology**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYC90S] See Calendar Page 31. *Members of the faculty.*  
 Term  
 Half-  
 Course *Prerequisites:* Three courses in Psychology; permission of instructor

**PSYC92F** **Supervised Research in Psychology**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYC93F] See Calendar Page 31. *Members of the faculty.*  
 Term  
 Half-  
 Course *Prerequisites:* PSYB07; PSYB09; two additional courses in Psychology; permission of instructor

**PSYC93S** **Supervised Research in Psychology**  
 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS PSYC92S] See Calendar Page 31. *Members of the faculty.*  
 Term  
 Half-  
 Course *Prerequisites:* PSYB07; PSYB09; two additional courses in Psychology; permission of instructor

## Russian

The courses in Russian offered by Scarborough College provide opportunities for the study of the language and the literature of Russia. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. Students who wish to study Russian literature without specialization may undertake their reading in translation. As well, their attention is directed to other College courses relevant to the study of Russian, such as those listed below.

<b>ECOB10</b>	Comparative Economic Systems
<b>ENGA08</b>	Forms of Twentieth Century Literature
<b>ENGB11</b>	Varieties of Drama
<b>ENGB16</b>	Fiction 1832-1900
<b>ENGB31</b>	Modern Drama
<b>GERB02</b>	20th Century Prose
<b>HISC17</b>	European Society and Culture between the World Wars
<b>HUMB02</b>	Guilt and Conscience in Post-World War II Literature
<b>HUMB72</b>	Art, Politics and Revolution
<b>HUMB15</b>	Nineteenth-Century Poetry: Aestheticism
<b>PHLB15</b>	Socialism in Theory and Practice
<b>PHLB50</b>	Anarchism
<b>PHLB60</b>	Philosophy in Literature
<b>PHLB77</b>	Marx and Marxism

### **POLB03 Modern Political Thought**

Students who intend to specialize in Russian may do so, whether they have studied the subject at high school or not, by satisfactorily passing in 5 core courses (RUSA10, RUSA11, RUSB10, RUSB11 and RUSB21) before completing the requirements for specialization in the Department of Slavic languages and Literatures. Such students are also urged to consider additional Russian courses in their first three years of study.

Students of Russian, 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. For further information consult Prof. C.V. Ponomareff.

#### **RUSA01Y Introduction to Russian Culture and Literature**

A study of aspects of the Russian creative mind, from the eighteenth century to the present. *C. Ponomareff*  
Full Course

#### **RUSA10Y Introductory Russian**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS RUS001] A course in the fundamentals of Russian grammar, with conversation, composition and readings. *S. Whalen*  
Full Course

#### **RUSA11Y Intermediate Russian**

[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS RUS002] A study of Russian grammar, with readings and discussion of literary materials and current publications. *S. Whalen*  
Full Course  
*Prerequisites:* RUS001 or RUSA10

#### **[RUSB10Y Advanced Russian]**

Course not offered in 1973-74.  
*Prerequisites:* RUS002 or RUSA11  
Full Course

#### **[RUSB11Y 19th Century Russian Literature]**

Course not offered in 1973-74.  
Full Course

#### **RUSB12Y Russian Drama**

Russian drama in translation from the earliest representations to the present, with an analysis of works by Pushkin, Gogol, Chekhov, Mayakovsky, Solzhenitsyn and others. Related dramatic forms will also be considered. *M. Schonberg*  
Full Course

#### **RUSB21Y 20th Century Russian Literature**

Literary evolution and social change in pre- and post-revolutionary

Full Course

Russia. *C. Ponomareff*

#### **RUSB23S Soviet-Russian Underground Literature from the 1920's to the present**

Term Half-Course  
A study of the characteristics of Russian novels and short stories not published in the Soviet Union, as well as of other works published in heavily censored editions. Discussion of the reasons why this literature is unacceptable to the communist state. Authors dealt with are Zamyatin, Bulgakov, Pasternak, Tertz, Solzhenitsyn and others. *C. Ponomareff*

#### **[RUSC01Y 20th Century Russian Poetry]**

Course not offered in 1973-74.  
*Prerequisites:* RUS003 or RUSB10  
Full Course

## **Sociology**

### **Specialist Programme in Sociology**

This is a four-year programme for students wishing to concentrate in Sociology and requiring at least seven full courses (or equivalent) in Sociology, including one in research methods (e.g. B01), one in sociological theory (e.g. B03) and at least two at the advanced (C) level.

Students are encouraged to select in their programme of studies courses from a variety of other disciplines, with special encouragement to include advanced (C) level work from other disciplines in the Social Sciences, Psychology, Philosophy, History or Mathematics.

Students may combine the specialist programme in Sociology with other programmes of study. Those interested in graduate work in Sociology, in social work, or in careers which may make special use of Sociology background, should consult with the special programme advisor in Sociology. Advisor -- W. Isajiw.

### **Pre-Social Work Programme**

This is a four-year programme of studies incorporating courses of special relevance for students interested in a career in Social Work. The programme is based on a selection of courses from Sociology and Psychology as its core, with additional courses to be taken in related areas such as Anthropology, Economics, Geography, Philosophy and Political Science. The special advisor for the programme will assist the student in developing programmes of study reflecting current requirements for entry into professional schools of social work. Advisor -- R.L. James.

### **Urban Studies**

Students interested in a programme of urban studies with a sociological emphasis

should consult with the special programme advisor in Sociology. A variety of course combinations are available in three or four-year programmes. Emphasis may be on urbanization and urbanism, urban problems, the urban community, community research, environmental aspects, etc. The student will be expected to include relevant courses bearing on urban phenomena from a number of other disciplines, especially Geography, Economics, Political Science, and Anthropology. Advisor — N. Howell.

- SOCA01Y** **Introduction to Sociology**  
[MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SOCA03] 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, social structure, socialization, deviant behaviour, population, community, stratification, social institutions and social change.
- Full Course
- SOCA02Y** **Contemporary Society**  
The application of basic methods and principles of Sociology to achieve a better understanding of the social structure and functioning of contemporary society, with emphasis on Canada, concentrating on topics which students will choose from their own interests. Emphasis is on student initiative and responsibility; formal lectures in this course cease in November. Students will conduct research projects as individuals or teams and will report their progress at seminars in which faculty act as resource persons. The course is conducted and projects are marked within a general set of rules, copies of which are available in advance. The final form of presentation of a project may be as a written essay, or a voice tape, drama, novel, film, television tape or other approved format. *J.A. Lee*
- Full Course
- [SOCA03Y]** **Principles of Sociology**  
Course not offered in 1973-74. [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SOCA01]
- Full Course
- SOCA04Y** **Principles of Sociology: A Fieldwork Approach**  
An introduction to Sociology by means of basic concepts and principles and their applications to the study of society. A field work approach will be used to develop concepts associated with social interaction, types of social and collective processes, group behaviour, role behaviour, social systems, social structure, stratification and social change. The student will be involved in directed observation and analysis of a variety of social and community situations. *N. Howell; L.L. Howard*
- Full Course

- SOCB01Y** **Methods in Social Research**  
A formal study of methodology and a practical introduction to social research design, data collection and analysis. Laboratory sessions include exercises in computer programming, elementary statistics, graphics and library research. Students design and execute suitable projects as an important part of their term work. Limited enrolment — 30. *R.C. Beals*  
*Prerequisites:* One previous course in Sociology
- Full Course
- SOCB02Y** **Structure of Interpersonal Relations**  
An examination of aspects of personal relationships involved in such social forms as the family, education, work, love and marriage, friendship and play including sexual intimacy, alienation, acquaintanceship, self-disclosure and interpersonal conflict, to name only a few examples. This is a research course; formal lectures cease in November. Students select their own project topics as individuals or teams and are responsible for their own progress within the general rules of the course. (Copy available in advance.) Faculty act as resource persons within a framework of voluntary seminars. The final form of presentation of projects may be as a written essay, or voice tape, drama, novel, film, television tape or other approved format. *J.A. Lee*  
*Prerequisites:* One previous course in Sociology
- Full Course
- SOCB03Y** **History of Social Thought**  
The development of Sociology and the works of particular sociologists whose concepts not only are of historical interest but also have relevance to contemporary Sociology. *R. O'Toole*  
*Prerequisites:* One previous course in Sociology
- Full Course
- [SOCB04Y]** **Political Sociology**  
Course not offered in 1973-74. A study of the interrelationship between society and policy, between social structures and political institutions. *J-L. deLannoy*  
*Prerequisites:* One previous course in Sociology
- Full Course
- SOCB05Y** **Urban Sociology**  
An examination of the city both as a significant development in world civilization and as a working mechanism guided by contemporary policies; the study of human behaviour in its multifaceted relations with the urban environment. *N. Howell*  
*Prerequisites:* One previous course in Sociology
- Full Course
- [SOCB10Y]** **Social Stratification**  
Course not offered in 1973-74. Description and analysis of the nature of social stratification with emphasis on the basis of stratification, different theoretical views concerning stratification, the
- Full Course

structure and function of stratification systems, social classes and associated behaviour, social mobility and class conflict.  
*Prerequisites:* One previous course in Sociology

- SOCB12Y**    **Sociology of the Family**  
 Full Course    The Sociological study of the family in contemporary western society, with special emphasis on its historical development, social forces which have influenced it, interrelationship with other institutional forms, the family as a group, the family life cycle, family disorganization and family change. *R.L. James*  
*Prerequisites:* One previous course in Sociology
- SOCB13Y**    **Canadian Society**  
 Full Course    A sociological analysis of Canadian society, with emphasis on its changing structure. *J.-L. deLannoy*  
*Prerequisites:* One previous course in Sociology
- SOCB14Y**    **Comparative Social Structure**  
 Full Course    A study of the institutional structure in different societies in order to develop a better understanding of the effects of structural variations on human behaviour. *J.-L. deLannoy; L.L. Howard*  
*Prerequisites:* One previous course in Sociology
- SOCB16Y**    **Social Change**  
 Full Course    A sociological analysis of forms of change, such as industrialization, modernization, urbanization, and their consequences for the structure and function of contemporary society. *R. O'Toole*  
*Prerequisites:* One previous course in Sociology
- SOCB18Y**    **Sociology of Deviant Behaviour**  
 Full Course    A sociological analysis of various forms of deviant behaviour, including an examination of causal theories, social definitions, maintenance, control and social consequence. *R.L. James*  
*Prerequisites:* One previous course in Sociology
- SOCB20Y**    **Ethnic and Race Relations**  
 Full Course    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. Societal integration especially as it bears upon the question of Canadian bilingualism and multiculturalism. *W. Isajiw*  
*Prerequisites:* One previous course in Sociology
- SOCC01Y**    **Small Groups**  
 Full Course    Analyses of small group behaviour with special reference to the dynamics of structure formation, conflict patterns, maintenance patterns, and patterns of change. The first term will be conducted as

a seminar, the second term as an academic self-analytic group. The method in the first term will be class reports and discussions, in the second term, participation in group task performance supplemented by regular reading and written reports. Limited enrolment — 20. *W. Isajiw*

*Prerequisites:* Two previous courses in Sociology, one of which must be B-level

Note: The offering of this course will depend on the availability of laboratory facilities.

- SOCC02S**    **Complex Organization**  
 Term Half-Course    Complex organizations, with special emphasis on relationships among them and the bearing of these relationships upon the structure of power in society. Materials will be drawn from Canadian and comparative contexts. Limited enrolment — 15. *L.L. Howard*  
*Prerequisites:* Two previous courses in Sociology, one of which must be at B-level
- [SOCC03F]**    **Collective Behaviour**  
 Term Half-Course    Course not offered in 1973-74. The social conditions that produce collective behaviour and the effect it has on group conflict, morale, consensus and changing patterns of social organization. Limited enrolment — 15.  
*Prerequisites:* Two previous courses in Sociology, one of which must be at B-level
- SOCC04S**    **Social Movements**  
 Term Half-Course    Analysis of major social movements, their origins, dynamics, and consequences for contemporary society. Limited enrolment — 15. *R. O'Toole*  
*Prerequisites:* Two previous courses in Sociology, one of which must be at B-level
- [SOCC05Y]**    **Special Problems of Sociological Theory**  
 Full Course    Course not offered in 1973-74. Selected basic questions underlying contemporary sociological thinking. Limited enrolment — 15.  
*Prerequisites:* Two previous courses in Sociology, one of which must be at B-level
- [SOCC07F]**    **Sociology of Occupations**  
 Term Half-Course    Course not offered in 1973-74. The relation of man to his occupations in contemporary society, including such topics as occupational choice in a changing society, conceptions of work and leisure, mobility and career patterns and professionalization. Limited enrolment — 15.  
*Prerequisites:* Two previous courses in Sociology, one of which must be a B-level course

[SOCC08H	<b>Sociology of Education]</b> Course not offered in 1973-74. Traditional and modern theories of education and learning within the context of the social systems in which these theories occur. Limited enrolment – 15. <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Year-Long Half-Course	
SOCC09F	<b>Sociology of Culture</b> A theoretical and empirical study of the societal processes by which the belief and cognitive systems, value and normative systems are accepted, established, and changed or modified. Special emphasis on Canada and the problems of development of Canadian culture. Limited enrolment – 15. <i>W. Isajiw</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level Note: This course will not be offered if SOCC01 is offered.
Term Half-Course	
SOCC10S	<b>Sex, Self and Society</b> A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements. <i>R.L. James</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
[SOCC12F	<b>Sociology of Revolution]</b> Course not offered in 1973-74. A theory of revolution which will be applied to examine empirical instances of the phenomenon, e.g., The Mexican Revolution, The Russian Revolution, The American Revolution, including such events as the Winnipeg General Strike, the 1968 Paris Student Revolt and the FLQ crisis. Limited enrolment – 15. <i>J-L. deLannoy</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
[SOCC13F	<b>Transportation and Canadian Society]</b> Course not offered in 1973-74. Sociological analysis of the interrelationship between transportation in its various forms and the major social characteristics of Canadian society, including social structure, national character, patterns of migration, resource use, recreation and tourism. Limited enrolment – 15. <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
[SOCC14S	<b>Mass Communication and Canadian Society]</b> Course not offered in 1973-74. Functions of the mass media for society, subcultures and individuals, including considerations related

Term Half-Course	to popular culture, the "graphic revolution" and the content and form of media consumption with special reference to Canadian society. Limited enrolment – 15. <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
SOCC15F	<b>Demography of Canadian Society</b> Application of basic demographic techniques to the study of Canadian society; population trends, composition, distribution, Canadian population problems, etc. Limited enrolment – 15. <i>N. Howell</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
SOCC16F	<b>Sociology of Conflict</b> Theories of conflict in the development of Sociology from Marx to the present applied to instances of social conflict, with particular reference to Canadian society. Limited enrolment – 15. <i>J-L. deLannoy</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
SOCC17S	<b>Social Change in Latin America</b> The major components of Latin American social structure in a dynamic perspective with emphasis on the contribution of various agencies and groups (public administration, Church, parties, military, labour organizations, students, entrepreneurs, etc...) to the modernization of Latin American societies. Limited enrolment – 15. <i>J-L. deLannoy</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
SOCC18S	<b>Sociology of the Arts</b> The history and social function of a variety of art forms from primitive to contemporary society; examination of the role of art and artist in a number of social structures. Each student (or team) will be expected to produce a project, preferably in art format (film, literature, graphics etc.) which critically examines the social context and functions of a specific expression of art during a specific period of history. Limited enrolment – 15. <i>J.A. Lee</i> <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	
SOCC20S	<b>Sociology of Religion</b> A sociological analysis of religion as a social institution, religious behaviour and contemporary trends. Limited enrolment – 15. <i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
Term Half-Course	

[SOCC22S	<b>Sociological Analysis: Qualitative Methods]</b> <del>Course not offered in 1973-74.</del>
Term Half- Course	<i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
[SOCC24S	<b>Changing Family Life in Canada]</b> <del>Course not offered in 1973-74.</del> Examination of the major changes in the structure of the family in Canada, and its consequences for family life. Limited enrolment - 15. <i>R.L. James</i>
Term Half- Course	<i>Prerequisites:</i> Two previous courses in Sociology, one of which must be a B-level course
SOCC30Y	<b>Independent Studies</b> See Calendar Page 31. <i>Prerequisites:</i> Any 15 courses; permission of instructor
SOCC40Y	<b>Directed Field Work</b> Designed primarily for 4th year students who wish to specialize in field research, and including the observation and reporting of social data. Under the guidance of the instructor, the students will be expected to concentrate on a major research project during the session, terminating with submission of a paper based on the experience. <i>Members of the faculty</i> <i>Prerequisites:</i> Any ten courses; permission of instructor. (Students anticipating the selection of this course are advised to include SOCB01 early in their programme of studies)
Full Course	

## Social Science

SOSA01F	<b>Quantitative Methods in Social Science</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS MATB52 AND PSYB07] Basic statistical methods with applications primarily to the Social Sciences. Students in Economics, and Political Science should note that this course is prerequisite to certain courses in those fields. No students will be admitted after the third lecture. <i>V. Sawyer</i>
Term Half- Course	
[SOSB02Y	<b>The Indian Sub-Continent: Contemporary Problems]</b> Course not offered in 1973-74. Major problems of modernisation and tradition in the Indian Sub-continent. <i>Prerequisites:</i> One previous course in Social Science
Full Course	

## Spanish

Students enrolling in Spanish at Scarborough College, whether specialists or non-specialists, are offered a wide range of courses in the Spanish language and in

Peninsular and Spanish-American literature. The following sequence of language courses is recommended for specialists with Grade 13 Spanish: SPAB02; SPAB04; SPAB05 in the first year; SPAB06; SPAB07 in the second year; SPAB12 in the third year. For specialists without Grade 13 Spanish the recommended sequence is SPAA01; SPAB04; SPAB05 in the first year; SPAB02; SPAB06 in the second year; SPAB07; SPAB12 in the third year. For part-time and non-specialist students a numerical sequence is suggested: SPAA01, SPAB02, etc. A specialist programme should include courses from each of the following areas of literature, taken, as far as possible, in the following order: SPAB03; Survey (SPAB11, SPAB28); Modern (SPAB13, SPAB17, SPAB27, SPAB29, SPAB30, SPAB33); Golden Age (SPAB23, SPAB25, SPAB26); Mediaeval (SPAB22). Students with Grade 13 Spanish may begin these courses in their first year, those without Grade 13 Spanish in their second.

Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other literatures may also prove valuable to the student as adjuncts to his plan of study or as an enrichment of his total programme. Of particular relevance to the student with interdisciplinary interests are the programmes in Drama and in Latin America Area Studies, for example HUMB61, Society and Culture in Latin America.

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. For further information consult Prof. R. Skeyrme.

Students should also consult listing under:

HUMB62	<b>Topics in Contemporary Latin-American Literature in Translation</b>
SPAA01Y	<b>Introductory Spanish</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA001] A course in basic grammar and syntax, with instruction in spoken and written Spanish in classroom and language laboratory. <i>J. Chicoy-Dabán; J. Maillard</i>
Full Course	
SPAB02F	<b>Intermediate Spanish</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA002] Review of Spanish grammar and syntax; elementary composition. <i>J. Maillard</i> <i>Prerequisites:</i> Grade 13 or SPA001 or SPAA01
Term Half- Course	
SPAB03S	<b>Pre-Literary Examination of Texts</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA003] The basic elements of style with rapid reading and comprehension of texts of various periods. <i>R. Barta</i> <i>Prerequisites:</i> SPA002 or SPAB02
Term Half- Course	
SPAB04F	<b>Phonetics</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS



Term Half- Course	SPA004  Articulatory phonetics; Spanish speech sounds; intensive practice in their production and transcription. <i>R. Skyrme</i>
SPAB05S	<b>Conversation</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA005] Intensive practice in the spoken language, through controlled situational oral work and discussion groups, with attention also given to the comprehension of the major regional variants. <i>Members of the faculty</i>
Term Half- Course	
SPAB06S	<b>Conversation</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA006 AND SPAB06F] A continuation of SPAB05. <i>Members of the faculty</i> <i>Prerequisites:</i> SPAB05
Term Half- Course	
SPAB07F	<b>Intermediate Syntax and Composition</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA007 AND SPAB07S] Practice in the effective writing of Spanish. <i>J. Maillard</i> <i>Prerequisites:</i> SPAB02
Term Half- Course	
SPAB11Y	<b>Survey of Spanish Literature</b> Reading, analysis and discussion of Peninsular Spanish literature from the twelfth century to the present. <i>R. Barta</i> <i>Prerequisites:</i> SPA001 or SPAA01
Full Course	
SPAB12F	<b>History of the Spanish Language</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPAB12S] The languages of Spain, from pre-Roman times to the present. <i>R. Skyrme</i> <i>Prerequisites:</i> SPAB04 or SPA004
Term Half- Course	
[SPAB13F	<b>Romanticism]</b> Course not offered in 1973-74. <i>Prerequisites:</i> SPAA01 or SPA001
Term Half- Course	
[SPAB17S	<b>The Modern Spanish Novel]</b> Course not offered in 1973-74. <i>Prerequisites:</i> SPA001 or SPAA01
Term Half- Course	

SPAB21F	<b>Stylistics and Translation</b> The examination of Spanish literature in relation to the resources of the language. Theory and practice of transmission of literary material from one language to another. <i>R. Barta</i> <i>Prerequisites:</i> SPAB03 or SPA003
Term Half- Course	
SPAB22F	<b>Mediaeval Literature</b> Reading, analysis and discussion of major texts in prose and poetry from the twelfth to the fifteenth centuries in Spain. <i>R. Barta</i> <i>Prerequisites:</i> SPAB03 or SPA003
Term Half- Course	
SPAB23Y	<b>Spanish Drama</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPAB24] A study of Spanish drama from the Middle Ages to the Twentieth century. Complete plays of the major dramatists will be read, and discussed. In some cases films of actual theatrical productions in Spanish will be shown. Classes will be taught in English with texts both in English and Spanish. <i>P. Léon</i> <i>Prerequisites:</i> SPAB03
Full Course	
SPAB25F	<b>Golden Age Prose</b> The development of Spanish prose writing in the Golden Age. <i>P. Léon</i> <i>Prerequisites:</i> SPAB03 or SPA003
Term Half- Course	
[SPAB26S	<b>Golden Age Poetry]</b> Course not offered in 1973-74. <i>Prerequisites:</i> SPAB03 or SPA003
Term Half- Course	
[SPAB27F	<b>The Poetry and Theatre of García Lorca]</b> Course not offered in 1973-74 or 1974-75. <i>Prerequisites:</i> SPAB03 or SPA003
Term Half- Course	
SPAB28S	<b>Spanish American Literature: A survey</b> [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS SPA28F] A study of the main currents of Spanish American literature from colonial times to 1850, based on analysis and discussion of selected texts. <i>P. Léon</i> <i>Prerequisites:</i> SPAA01 or SPA001
Term Half- Course	

[SPAB29F]	Spanish American Literature: The Short Story] Course not offered in 1973-74 or 1974-75. <i>P. León</i> <i>Prerequisites:</i> SPAA01 or SPA001
Term	
Half-	
Course	
[SPAB30S]	Spanish American Literature: The Novel of the Mexican Revolution] Course not offered in 1973-74 or 1974-75. <i>Prerequisites:</i> SPAA01 or SPA001
Term	
Half-	
Course	
SPAB33F	Spanish American Poetry 1880-1920 [MAY NOT BE TAKEN IN SAME DEGREE PROGRAMME AS HUMB15] A study of the Modernist movement, involving an examination of the attitudes, themes, and techniques of some of its major authors. <i>R. Skyrme</i> <i>Prerequisites:</i> SPAB03
Term	
Half-	
Course	
SPAC01F	Supervised Reading
SPAC02F	See Calendar Page 31.
SPAC03F	<i>Prerequisites:</i> SPAB03; one Spanish literature course — SPAB11
SPAC04F	through SPAB33
SPAC05F	
Term	
Half-	
Course	
SPAC06S	Supervised Reading
SPAC07S	See Calendar Page 31.
SPAC08S	<i>Prerequisites:</i> SPAB03; one Spanish literature course - SPAB11
SPAC09S	through SPAB33
SPAC10S	
Term	
Half-	
Course	

## Summer Day, Summer Evening and Winter Evening Sessions, 1973-74

NB. Language courses will be offered in the Summer Sessions and Winter Evening Session subject to satisfactory enrolment in preceding sessions. If you have any enquiries relating to the following programmes, please call 284-3127.

### Summer Day Session

'Y' and 'H' courses begin on Tuesday 3 July and end on Friday 10 August.

'F' courses begin on Tuesday 3 July and end on Friday 20 July.

'S' courses begin on Monday 23 July and end on Friday 10 August.

The examination period begins on Monday 13 August and ends on Friday 17 August.

Classes in the Summer Day Session are given two hours per day, five days a week.

Actual course descriptions may be found in the appropriate section of this Calendar.

Course Code	Course Title	Hours
ANTB13Y	Methods and Principles of Archaeology	9 am — 11 am
B10B12Y	Ecology	9 am — 11 am
COMA01Y	Financial Accounting	9 am — 11 am
ECOA01Y	Introduction to Economics	9 am — 11 am
ENGB17Y	Fiction before 1832	11 am — 1 pm
ENGB27Y	Canadian Fiction in English	11 am — 1 pm
GGRA08S	Introduction to Geography: Regional	1 pm — 3 pm
GGRA09F	Introduction to Geography: Spatial Analysis	1 pm — 3 pm
GGRB07Y	Geomorphology	1 pm — 3 pm
HISB14Y	Society in Early Modern Europe 1550-1800	9 am — 11 am
LINA02F	General Linguistics I	11 am — 1 pm
LINA03S	General Linguistics II	11 am — 1 pm
PHLA01Y	Introduction to Philosophical Problems	11 am — 1 pm
POLB03Y	Modern Political Thought	11 am — 1 pm
POLB18Y	Comparative Politics of Western Europe	11 am — 1 pm
PSYA01Y	Introduction to Psychology	9 am — 11 am
PSYB30F	Personality	9 am — 11 am
PSYB50S	Sensation	9 am — 11 am
SOCA01Y	Introduction to Sociology	11 am — 1 pm
SOCC07F	Occupations	1 pm — 3 pm

### Summer Evening Session 1973, at Scarborough College

'Y' and 'H' courses begin on Monday 14 May and end on Thursday 9 August.

'F' courses begin on Monday 14 May and end on Thursday 21 June.

'S' courses begin on Tuesday 3 July and end on Thursday 9 August.

The examination period begins on Monday 13 August and ends on Friday 17 August. Classes in the Summer Evening Session are given on two evenings a week — either Monday and Wednesday or Tuesday and Thursday — from 7:00 pm to 9:30 pm. Actual course descriptions may be found in the appropriate section of this Calendar.

Course Code	Course Title	Evenings
ANTB15Y	Introduction to Physical Anthropology	Tues. & Thurs.
ANTB17H	Complex Societies	Tues.
CLAB02Y	Greek and Roman Tragedy	Tues. & Thurs.
COMA01Y	Financial Accounting	Mon. & Wed.
COMB21F	Management Accounting	Mon. & Wed.
COMB22S	Information Systems and Control	Mon. & Wed.
ECOB18S	Macroeconomic Policy	Mon. & Wed.
ENGA04Y	English Literature: Forms and Approaches	Tues. & Thurs.
ENGB01Y	Old English Language and Literature	Mon. & Wed.
GGRB08Y	The Geography of Underdeveloped Areas	Tues. & Thurs.
HISB03Y	History of the United States	Tues. & Thurs.
MATA26Y	Techniques of Calculus	Tues. & Thurs.
PHLB51F	Ethics	Mon. & Wed.
PHLB54S	Theory of Knowledge	Mon. & Wed.
POLB26Y	U.S. Government and Policies	Tues. & Thurs.
SOCB18Y	Sociology of Deviant Behaviour	Mon. & Wed.

### Summer Evening Session, at Durham College, Oshawa

Course Code	Course Title	Evenings
ANTB02S	Anthropology of Religion	Tues. & Thurs.
ECOA01Y	Introduction to Economics	Mon. & Wed.
ENGB11Y	Varieties of Drama	Tues. & Thurs.
GGRA07F	Introduction to Geography: The Surface of the Earth	Tues. & Thurs.
GGRA09S	Introduction to Geography: Spatial Analysis	Tues. & Thurs.
PHLB51F	Ethics	Mon. & Wed.
PHLB56S	Philosophy of Religion	Mon. & Wed.
SOCA01Y	Introduction to Sociology	Mon. & Wed.

### Winter Evening Session 1973, at Scarborough College

Course Code	Course Title
ANTA01Y	Introduction to Anthropology
ANTB06F	Cultures of Oceania
ANTB08F	Anthropology of Development

ANTB14F	Human Evolution
BIOA03Y	Introductory Biology
CLAB09F	Greek and Roman Comedy
CLAB23S	Christianity in the Greco-Roman World
GRHB03Y	Roman History from the Gracchi to Nero
COMA01Y	Financial Accounting
COMB21F	Management Accounting
COMB22S	Information Systems and Control
ECOA01Y	Introduction to Economics
ECOB01Y	Price Theory
ECOB02F	National Income and the National Economy
ECOB03Y	North American Economic History
ECOB12F	International Economics: Finance
ECOB13S	International Economics: Trade Theory
ENGA05Y	Canadian Literature in English
ENGB04Y	English Poetry, Prose and Drama, 1660-1800
ENGB06Y	Victorian Poetry
ENGB10Y	Shakespeare
ENGB24Y	Major American Authors
FREB34F	Readings in 20th Century French Fiction
FREB35S	Ideas in 20th Century French Fiction
GGRA03S	Introduction to Geography: Geographic Methods I: Cartographic and Field Methods
GGRA06F	Introduction to Geography: Environmental Analysis
GGRA07S	Introduction to Geography: The Surface of the Earth
GGRB02Y	Geographic Methods II: Analytical and Quantitative Methods
GGRB05Y	Urban Geography
GGRB09Y	Special Topics — 1973-74 Advanced Geographic Methods
GGRC02Y	Rural Land Use
GGRC06F	Biogeography
HISB05F	Canadian History to 1867
HISB06S	Canadian History Since Confederation
HISB17Y	Germany in the 19th and 20th Centuries
HISB21F	Frontier Communities in the British Empire — Commonwealth
HISB22S	British Imperialism in Asia and Africa
HISB43Y	Ontario History, the 19th Century
HISC33Y	Ideology, Culture and Society in America
HISC41S	Old Huronia
HISC42F	Church-State Relations in Canada
MATA26Y	Techniques of Calculus
NSCA01Y	Introduction to Natural Science: The Physical Sciences
PHLA01Y	Introduction to Philosophical Problems
PHLA02Y	Introduction to Philosophical Classics
PHLB56S	Philosophy of Religion
PHLB57F	Aesthetics
PHLB60F	Philosophy in Literature: Images of the Self
PHLB66S	Greek Philosophy: Aristotle and Later Greek Philosophy

POLA01Y	Canadian Government and Politics
POLB06Y	Political Thought from Plato to Locke
POLB10Y	International Relations
POLB12Y	Politics and Society in Independent Africa
PSYA01Y	Introduction to Psychology
PSYB07F	Data Analysis in Psychology
PSYB09S	General Experimental Psychology
PSYB10F	Introduction to Social Psychology
PSYB12S	Social Interaction
PSYB20S	Developmental Psychology
PSYB30F	Personality
PSYB32F	Abnormal Psychology
PSYB50S	Sensation
SOCA01Y	Introduction to Sociology
SOCB12Y	Sociology of the Family
SOCB13Y	Canadian Society
SPAB02F	Intermediate Spanish
SPAB25F	Golden Age Prose
SPAB28S	Spanish American Literature: A Survey

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ANTB14F	Human Evolution
ANTB25F	Introduction to North American Prehistory
CLAB21Y	Greek and Roman Religion
EOCA01Y	Introduction to Economics
ENGB16Y	Fiction 1832-1900
GGRA03S	Introduction to Geography: Geographic Methods I: Cartographic and Field Methods
GGRA06F	Introduction to Geography: Environmental Analysis
HISB43Y	Ontario History, The 19th Century
NSCA02Y	Introduction to Natural Science: The Biological Sciences
PHLA01Y	Introduction to Philosophical Problems
PHLB76F	Existentialism and Phenomenology
PHLB79S	Theories of Mind
POLB17Y	The Chinese Political System
PSYA01Y	Introduction to Psychology
PSYB20F	Developmental Psychology
PSYB32S	Abnormal Psychology

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