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

STEPHEN LEACOCK

1982/83
### Important Information

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

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

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

**Course selection and registration**

**Key to the course descriptions**
Students are urged to read carefully pages 39 and 40 of this Calendar before reading the course descriptions. These pages contain important information about the designation and numbering of courses; prerequisites, corequisites and exclusions; and about supervised reading, supervised research and independent study courses.

**Prerequisites and corequisites**
Prerequisites and corequisites may be waived only with the specific permission of the instructor. Students who register in courses without their prerequisites or corequisites, and without the permission of the instructor, may be withdrawn from these courses after the beginning of classes.

**Prerequisite: permission of instructor**
Where the prerequisite of a course is permission of its instructor, students who register in the course without permission may be withdrawn after the beginning of classes. Students who propose to register in such courses are urged to obtain the permission of the instructor before the end of classes in April of the preceding year.

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<td>Students who were registered at the College in the 1981 Summer Session or the 1982 Winter Session should pick up registration information from the Registrar's Office in March or April. New students and students reactivating their enrolment after a year away will be mailed their registration material.</td>
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<td>Students who were registered at the College in the 1981-82 Winter Session will receive registration material in the mail in June 1982. New students and students reactivating their enrolment after a year away will receive their registration information with their letter of admission or with the letter verifying reactivation of their enrolment.</td>
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**Academic Calendar/Summer Session 1982**

- **April 1**: Last day for new students to apply for admission to the University for the Summer Session for courses beginning in May (Y, A, F and H courses).
- **May 15**: Last day for new students to apply for admission to the University for the Summer Session for courses beginning in July (B and S courses). While applications will be accepted after the above dates where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.
- **May 21**: Last day to register for Y, A, F and H courses.
- **May 24**: Classes for Y, A, F and H courses on the Scarborough Campus begin.
- **May 29**: Last day to add Y, A, F or H courses on the Scarborough Campus. Last day this term to transfer into a new Specialist, Major or College Programme.
- **June 9**: Last day to add Y, A, F or H courses on the St. George and Erindale Campuses.
- **June 11**: Last day to withdraw from A or F courses on the Scarborough Campus.
- **June 23**: Last day to withdraw from A or F courses on the St. George and Erindale Campuses.
- **June 25**: Last day of classes in A and F courses on the St. George and Erindale Campuses. Last day for submission of term assignments in St. George and Erindale Campus courses.
- **June 28**: Final examinations may be held in A and F courses on the St. George Campus. H and Y courses continue to meet.
- **June 30**: Last day of classes in A and F courses at Scarborough College. Last day for submission of term assignments in these courses. Final examinations, if required, will be held in the last or second last class period.
- **July 1-2**: Last day to register for B and S courses.
- **July 5**: Classes for B and S courses begin.
- **July 9**: Last day to add B or S courses. Last day this term to transfer into a new Specialist, Major or College Programme.
- **July 15**: Last day to request conferment of degree at the Fall Convocation.
- **July 23**: Last day to withdraw from Y or H courses.
- **July 30**: Last day to withdraw from B or S courses.
- **August 2**: Civic holiday. University closed.
- **August 13**: Last day of classes for Y, B, H and S courses on the St. George Campus and in the Scarborough Language Institute.
- **August 16**: Final examinations in Y, B, H and S courses on the St. George and Erindale Campuses.
- **August 20**: Last day of classes in Scarborough College courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.

**Winter Session 1982-83**

- **June 30**: Last day for new students to apply for admission to the University for the courses beginning in September. While applications will be accepted after this date where possible, the University cannot guarantee that a decision will be made on such applications before the commencement of classes.
- **August 31**: Registration for students who did not complete all registration procedures previously.
- **September 6**: Labour Day. University closed.
- **September 7**: Classes for Y, A, F and H courses begin on the Scarborough Campus.
- **September 13**: Classes for Y, A, F and H courses begin on the St. George and Erindale Campuses.
- **September 20**: Last day to add Y, A, F or H courses on the Scarborough Campus.
- **September 24**: Last day to add Y, A, F or H courses on the St. George and Erindale Campuses.
- **October 11**: Last day to withdraw from A or F courses.
- **November 5**: Last day to withdraw from B or S courses.
- **November 15**: Last day for new students to apply for admission to the University for Winter Session courses beginning in January. While applications will be accepted after this date where possible, the University cannot guarantee that a decision will be made in time for the commencement of classes. (Please note: only a limited number of courses are offered in January.)
- **December 6**: Last day of classes in the first term on the Scarborough Campus.
- **December 10**: Last day for submission of term assignments in F and A courses on the Scarborough Campus.
- **December 13**: Last day of classes in the first term on the St. George and Erindale Campuses.
- **December 22**: Last day for submission of term assignments in F and A courses on the St. George and Erindale Campuses.
- **December 23**: Term test and final examination period on the Scarborough Campus.
- **December 23**: Term test and final examination period on the St. George and Erindale Campuses.

**1983**

- **January 3**: Classes for B and S courses begin.
- **January 14**: Last day to add B or S courses.
- **February 11**: Last day this term to transfer into a new Specialist, Major or College Programme.
- **February 15**: Last day to withdraw from Y or H courses.
- **February 14**: Last day to request conferment of degree at the Fall Convocation.
- **February 18**: Reading Week - all classes cancelled.
- **February 25**: Last day to withdraw from B or S courses.
- **April 1**: Good Friday. University closed.
- **April 8**: Last day of classes; no tests or examinations may be held until the beginning of the examination period.
- **April 18**: Last day for submission of term assignments for Y, H, B or S courses.
- **May 6**: Final examination period.
- **June 13**: Spring Convocation begins.
Officers of the University of Toronto 1982-1983

Administration and Faculty of Scarborough College

Principal
J. E. Foley, B.A., Ph.D.

Assistant to the Principal

Information Officer
M. D. Marks, B.A.

Associate Dean
M. Krashinsky, S.B., M.P.H., Ph.D.

Chairman, Division of Humanities
E. W. Dowler, M.A., Ph.D.

Administrative Assistant
A. P. Western

Chairman, Division of Life Science
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Chairman, Division of Physical Sciences
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Administrative Assistant
J. Norman

Chairman, Division of Social Science
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Administrative Assistant
M. Kimerly

Registrar
G. E. Currie

Associate Registrar
N. H. Dobbs, B.A.

Assistant Registrar
M. Gerrard

Administrative Assistant
L. Pearson

Admissions/Liaison Counsellor
S. Martin, B.Sc.

Director of Administration
J. F. Brook

Administrative Assistant, Personnel
J. P. Hope

Administrative Assistant, Accounts
G. Tapper

Administrative Assistant, Residences
N. Sonstenes

Librarian

Coordinator, Collection Management
M. Wiedenheft, M.L.S.

Coordinator, Public Services
P. Yamamoto, B.A., M.S. in L.S.

Coordinator, Special Collections
L. Le, B.A., M.L.S.

Head, Reference Services
J. Mendelssohn, B.A., M.P.I., M.I.B.

Reference and Orientation Librarian
M. Miller, B.A., M.L.S.

Head, Scarborough-Erindale Technical Services
A. Gregorovich, B.A., B.L.S.

Director of the Writing Laboratory and Director of the English Proficiency Programme
A. Fisher, B.A., M.A., Ph.D.

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

Assistant Director of Athletics
J. Laukiste, B.Sc., B.Ed.

Assistant Director of Athletics
M. A. Pilskalnietis, B.P.H.E.

Physician
T. W. Fox, B.A., M.D., F.R.C.P.C.

Physician
A. M. Braulls, M.D.

Psychiatrist
Taylor Stetten, M.D., F.R.C.P.C.

Manager of Physical Services

Division of Humanities

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A. Boddington, B.A. (Oxon), Associate Professor
J. H. Corbett, M.A., Ph.D. (Toronto), Associate Professor
M. E. Irwin, M.A., Ph.D. (Toronto), Associate Professor
R. R. McDonald, B.A. (Alberta), Ph.D. (Calgary), Associate Professor
J. R. Warden, M.A. (Cambridge), Associate Professor
G. Papadatos, B.A. (Athens), Tutor

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M. O. Schonberg, M.A., Ph.D. (Toronto), Associate Professor
L. L. Browne, M.A., Ph.D. (Toronto), Lecturer

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W. J. Howard, M.A., B.T.B. (Toronto), Ph.D. (Leeds), Professor
J. M. R. Margesson, M.A., Ph.D. (Toronto), Associate Professor
R. M. Brown, M.A., Ph.D. (New York), Associate Professor
M. C. Cuelman, M.A., Ph.D. (Toronto), Associate Professor
H. Jackson, M.A., Ph.D. (Toronto), Associate Professor
J. Kay, M.A. (Oxford), M.A. (London), Ph.D. (Pennsylvania), Associate Professor
S. M. Namjoeh, M.A. (Osaka), M.S. (Missouri), Ph.D. (McGill), Associate Professor
A. J. G. Paternain, B.A. (McGill), Ph.D. (Birmingham), Associate Professor
M. S. Salt, M.A., Ph.D. (Toronto), Associate Professor
A. C. Thomas, M.A., Ph.D. (Toronto), Associate Professor
E. P. Vickers, M.A. (Edinburgh), Associate Professor
K. Tham, M.A., Ph.D. (York), Assistant Professor

Fine Art
G. Scarvazzi, M.A., Ph.D. (Turin), Professor
M. Garvery, M.A. (Pollentia), Ph.D. (Toronto), Associate Professor
M. C. Shaw, M.A., Ph.D. (Bryn Mawr), Associate Professor
R. Siebeloff, M.A., Ph.D. (Toronto), Associate Professor
L. Carney, M.A. (Columbia), Assistant Professor
D. Holmberg, B.F.A. (Kansas City Art Inst), Senior Tutor
B. Hall, B.F.A. (Chicago), Tutor
J. Hoogstraten, B.F.A. (Manitoba), Senior Tutor

French
C. B. Bertrand-Jennings, L.L. (Paris), Ph.D. (Wayne State), Professor
G. F. R. Trembley, L.L. (Laval), Ph.D. (York), Professor
W. J. Bancroft, M.A. (Manitoba), Ph.D. (Harvard), Associate Professor
J. A. Curris, M.A., M.P.H. (Toronto), Associate Professor
L. E. Doucette, B.A. (London), Ph.D. (Brown), Associate Professor
W. J. Kirkness, M.A. (Auckland), Ph.D. (de Besancon), Associate Professor
L. B. Mignault, B.A. (Toronto), Ph.D. (Colorado), Associate Professor
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- C.V. Ponomareff, M.A., Ph.D. (Toronto), Associate Professor
- S. Whalen, M.A., Ph.D. (Toronto), Associate Professor

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- R.J. Barta, M.A., Ph.D. (Minn.), Associate Professor
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**Biology**
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- A.H. Weatherley, B.Sc. (Sydney), M.Sc. (Tas.), Ph.D. (Glas.), Professor
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- I.M. Campbell, B.Sc. (Alberta), M.A., Ph.D. (Toronto), Associate Professor
- E.R. Dengler, B.Sc., Ph.D. (UCD), Associate Professor
- M.F. Filosa, B.S. (St. Peter's), M.S. (Fordham), Ph.D. (Princeton), Associate Professor
- C.K. Govind, B.Sc. (Rochester), M.Sc. (Natal), Ph.D. (Montana), Associate Professor
- J.W. Gurd, B.A. (Mt. Alli), Ph.D. (McGill), Associate Professor
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- R. Boonstra, B.Sc. (Calgary), Ph.D. (B.C.), Assistant Professor
- J. Silver, B.Sc., Ph.D. (CUNY), Associate Professor
- D.D. Williams, B.Sc. (Univ. Coll. of Wales), Dip. Ed. (Liverpool), M.Sc. Ph.D. (Waterloo), Assistant Professor
- C. Pickett, B.Sc., M.A. (Toronto), Senior Tutor
- C. Ng, B.Sc., M.Sc. (Hong Kong), Instructor

**Psychology**
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- J.E. Foley, B.A., Ph.D. (Syr.), Professor
- B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), Professor
- J.D. Pauker, B.A. (CUNY), M.S. (Purdue), Ph.D. (Wash. U.), Professor
- M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
- J. Bassili, B.A. (McGill), Ph.D. (Cornell), Associate Professor
- G.C. Cupchik, B.A. (Mich.), M.A., Ph.D. (Wisc.), Associate Professor
- K.K. Dion, B.A. (Wellesley), Ph.D. (Yale), Associate Professor
- J.M. Kennedy, B.Sc., M.Sc. (Bell.), Ph.D. (Cornell), Associate Professor
- A. Kukla, A.B., A.M., Ph.D. (UCLA), Associate Professor
- N.W. Milgram, B.A. (La Coli), M.A., Ph.D. (McGill), Associate Professor
- T.L. Petito, B.S., M.A. (Louisiana), Ph.D. (Florida), Associate Professor
- D.L. Chute, B.A. (Western), M.A., Ph.D. (Missouri), Assistant Professor
- C. MacLeod, B.A. (McGill), Ph.D. (Washington), Assistant Professor
- M.C. Tierney, B.A. (Toronto), M.A., Ph.D. (Windsor), Assistant Professor
- G.A. Heighington, B.A. (Toronto), Senior Tutor
- R. Goldenberg, B.A. (Toronto), Tutor
- J. Rostal, B.A. (Toronto), M.A. (OISE), Tutor

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- D. McNeill, A.B. (St. Peter's, Milan), Ph.D. (New York), Associate Professor
- G. Katz, M.A., Ph.D. (Toronto), Senior Tutor

**Linguistics**
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- S. Whalen, M.A., Ph.D. (Toronto), Associate Professor
- J.D. Woods, B.A. (Bowedin Col.), Ph.D. (Mass.), Associate Professor
- E. Bialystok, B.Sc., M.A., Ph.D. (Toronto), Assistant Professor
DIVISION OF PHYSICAL SCIENCES

Astronomy
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R. C. Foerster, B. Sc., M. Sc. (McMaster), Ph.D. (Illinois), Professor
C. Dyer, B. Sc., M. Sc. (Toronto), Ph.D. (Toronto), NSERC UNIVERSITY RESEARCH FELLOW

Chemistry
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R. Morris, B. Sc. (Waterloo), Ph.D. (U.B.C.), Assistant Professor
K. Henderson, B. Sc. (Toronto), Senior Tutor
J. Potter, B. Sc. (Birmingham), M. Sc. (Waterloo), Senior Tutor
A. Verner, M. Sc. (Toronto), Senior Tutor

COMPUTER SCIENCE

W. H. Ewart, B. Sc. (British Columbia), M. Sc., Ph.D. (Toronto), Associate Professor
C. P. Perault, B. Sc. (McGill), M. A., Ph.D. (Michigan), Associate Professor
A. Mendelzon, B. S., M. S. E., M. A., Ph.D. (Princeton), Assistant Professor
M. Hall, B. Sc. (Acadia), Senior Tutor

Geology
W. Tovell, B. Sc., M. Sc. (Toronto), Professor
J. A. Westgate, B. Sc. (Reading), Ph.D. (Albany), Professor
K. F. Howard, B. Sc., M. Sc., Ph.D. (Birmingham), Assistant Professor

Mathematics
E. W. Ellers, M. Sc. (Hamburg), Professor
J. S. Halperin, M. Sc. (Toronto), Ph.D. (Toronto), Professor
R. W. Sharpe, M. Sc. (Toronto), Ph.D. (Yale), Professor
T. Callahan, M. Sc., Ph.D. (Toronto), Associate Professor
J. Friedlander, B. Sc. (Toronto), M.A. (Toronto), Ph.D. (Penn State), Associate Professor
P. Keast, M. Sc. (Edinburgh), Ph.D. (St. Andrews), Associate Professor
P. J. Leah, Ph.D. (Toronto), Associate Professor
E. Mendelson, B. Sc., M. Sc. (Manitoba), Ph.D. (McGill), Associate Professor
J. S. Wilker, B. Sc. (Toronto), M.A. (British Columbia), Ph.D. (Toronto), Associate Professor
M. J. Evans, B. Sc. (Western Ontario), M. Sc., Ph.D. (Toronto), Assistant Professor
D. Hall, B. Sc., M. Sc., Ph.D. (Toronto), Senior Tutor
E. Moore, M.A. (Memorial), Ph.D. (Toronto), Senior Tutor
E. Pelek, M.A., Ph.D. (Western Ontario), Senior Tutor
S. Chawla, B. A. (Delhi), M. Sc., M. A. (McMaster), Tutor
D. Shum, Ph.D. (Carleton), Tutor

PHYSICS

H.C. Horan, B. A., M. Sc. (Melbourne), Ph.D. (Carleton), Professor
A. Griffin, M.Sc. (British Columbia), Ph.D. (Cornell), Professor
J. D. King, B.A. (Toronto), Ph.D. (Saskatchewan), Professor
M. J. Lee, M. A., Ph.D. (Carthage), Professor
P. J. O'Donnell, B. Sc., Ph.D. (Glascow), Professor
J. M. Perez, B. sc., A. Sc. (Toronto), Ph.D. (Carthage), Professor
M. B. Walker, B. Eng. (McGill), D. Phil. (Oxford), Professor
A. E. Jacobs, B. A. Sc. (Toronto), M. Sc. (Waterloo), Ph.D. (Illinois), Associate Professor
S. Quick, M. Sc., Ph.D. (Windsor), Tutor

COMMERCE

H. Bublik, B. Sc. (Econ.) (London), M. B. A. (Western), C.A. (Associate Professor)
T. Mitchell, B. Comm. (Carleton), M. M. Sc. (Ottawa), Ph.D. (York), Assistant Professor
A. Baeyens, B. A. (Toronto), M. B. A. (York), Assistant Professor
J. Feldman, M. A. (Kent), M. L. B. (Queen's), Special Lecturer
S. Lerman, B. A. (Toronto), M. A. (Chicago), Special Lecturer
L. Torkin, B. Comm., (Toronto), M. L. B. (York), Special Lecturer
L. Wolfson, B. A. (York), M.L. (UBC), Special Lecturer

ECONOMICS

L. Tashia, B. Comm. (Toronto), M. A., Ph.D. (Cambridge), Professor Emeritus
A. Berry, B. A. (Western), Ph.D. (Princeton), Professor
D. C. Campbell, B. A. (Queen's), Ph.D. (Princeton), Professor
M. Gander, B. A. (Queen's), M. A., Ph.D. (Wisconsin), Professor
D. E. Moggridge, B. A. (Toronto), M. A., Ph.D. (Cambridge), Professor
M. Bucovetsky, B.A., M.A., Ph.D. (Toronto), Associate Professor
J. Cohen, B. A. (Bristol), M. A., Ph.D. (Chicago), Associate Professor
S. K. Howard, B. A. M. Sc. (London), M. A., Ph.D. (Cambridge), Associate Professor
M. Krashinsky, B. M. (N.I.T.), M. Phil., Ph. D. (Yale), Associate Professor
I. C. Parker, B. A. (Manitoba), M. A., Ph.D. (Yale), Associate Professor
N. Gallin, B.A., M.A. (Missouri), Assistant Professor
A. Melano, B.A. (Toronto), Ph.D. (Harvard), Assistant Professor
W. M. L. Green, B. A. (Victoria, B.C.), M.A. (Toronto), Ph.D. (Penn.), Assistant Professor
R. S. Saunders, B. A. (Toronto), M.A., Ph.D. (Harvard), Assistant Professor
A. P. Simms, B. A. (Manitoba), M. M. S. (Northwestern), Assistant Professor
R. Fairlie, B. A. M.A., M. A. (Manchester), Lecturer

ANTHROPOLOGY

F. D. Sutton, B. Sc., M.A. (NYU), Ph.D. (Curry), Professor
T. F. S. McFeast, B. A. (McGill), M.A., Ph.D. (Harvard), Professor
C. E. Hoppen, B. A. (Ottawa), Associate Professor
L. Sawchuk, B. A. M. A. (Manitoba), Ph D. (Toronto), Associate Professor
H. B. Schroeder, B. A. (Penn., State), Ph.D. (Columbia), Associate Professor
R. W. Shirley, B. A. (Stanford), Ph.D. (Columbia), Associate Professor
M. Lambek, B. A. (McGill), M. A. (Michigan), Assistant Professor
M. Latta, B. A. (Kansas), M. A., Ph.D. (Toronto), Assistant Professor

SOCIOLOGY

S. J. Colman, M.A. (Oxon), Professor
R. Mair, B.Ed. (New Bruns.), M.A. (Oxon), Ph.D. (Harvard), Professor
K. J. Sandbrook, B. A. (Carleton), M.A. (Toronto), D. Phil. (Sussex), Professor
E. G. Andrew, B.A. (British Columbia), Ph.D. (London), Associate Professor
R. S. Blair, M.A. (Glasgow), M.A. (Toronto), Associate Professor
T. Colton, B.A. (Toronto), Ph.D. (Harvard), Associate Professor
M. W. Donnelly, B. Sc., M. A. (McGill), Associate Professor
J. Esberrey, B. A. (West Australia), B. Sc. (London), M.A., Ph.D. (Toronto), Associate Professor
V. Feltenheim, B.A. (Princeton), M.A., Ph.D. (Toronto), Associate Professor
A. Rubinstein, B. A. (Allegheny), M.A., Ph.D. (Chicago), Associate Professor
S. Solomon, B.A. (McGill), M.A., Ph. D. (Toronto), Associate Professor

GEOGRAPHY

N. Howell, B. A. (Brandon), Ph.D. (Harvard), Professor
W. W. Isaib, B.A. (LaSalle), Ph.D. (Catholic Univ. of America), Professor
R. L. James, M.A. (Wayne State), Ph.D. (Oregon), Professor
R. Beals, B.A. (UCLA), Ph.D. (California), Associate Professor
J. L. De Lannoy, Sc. Soc. (Leuven), Ph.D. (California), Associate Professor
J. A. Lee, B.A. (Toronto), Ph.D. (Sussex), Associate Professor
R. O'Toole, B. A. (Leeds), M.A. (McMaster), Ph.D. (Toronto), Associate Professor
S. Ungar, B.A. (McGill), M.A. (York), Associate Professor
M. Baker, B.A. (Toronto), Ph.D. (Alberta), Assistant Professor
M. Hammond, B.A. (California), M.A., Ph.D. (Toronto), Assistant Professor
J. Hannigan, B. A., M.A. (Western Ontario), Ph.D. (Ohio State), Assistant Professor
M. MacKinnon, B.A. (Toronto), M.A. (York), Assistant Professor
D. Tidball, B.A. (Toronto), M.Sc. (London School of Economics), Assistant Professor

ASSOCIATE PROFESSOR
Admissions and Awards

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

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

Bases of admission

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

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

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

4 Other countries
Students who would like to apply for admission on the basis of work completed in other countries should write to the Office of Admissions, outlining their academic qualifications.

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

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

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

Admission requirements for students entering Scarborough College from Grade 13 in the fall of 1982-83 and thereafter

Grade 13 academic subjects will be arranged into the following groups for the purposes of admission:
- Group A: English/English/Lit as a second language
- Group B: Languages other than English
- Group C: Mathematics
- Group D: Sciences
- Group E: Other Humanities and Social Sciences
- Group F: Other subjects - Accounting
- Dramatic Arts
- Family Studies
- Law
- Multidisciplinary Studies

Other Arts Studies
Physical and Health Education
Screen Education
Visual Arts

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

Regulations concerning Groups A through E:
Grade 13 students seeking admission on the basis of a Grade 13 programme completed in 1982 and thereafter will be expected to present at least six Grade 13 credits distributed as follows:
1 at least one credit from Group A;
2 additional Grade 13 credits chosen from at least two of B through E, and including at least one credit in either Group B or Group C;
Students wishing to qualify under Group C must present at least one of Algebra or Calculus or Relations and Functions.
3 Applicants may not present more than:
- three credits in Mathematics
- two credits in any other subject

The following will not be accepted in 1982 and subsequently:
Data Processing
Marketing and Merchandising
Other Business Studies
Secretarial Practice
Technological Studies

NOTE: Applicants who have matriculated prior to 1982 are not required to meet the subject distribution outlined above. Applicants currently matriculating in other educational jurisdictions, should attempt to comply with the distribution wherever possible.

With the beginning of the 1983 admission cycle:
The following subjects will be placed in Group E:
- Dramatic Arts
- Screen Education
- Visual Arts
Awards

English facility requirement

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

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

Application procedures

1 Current Ontario Grade 13 students
   Students currently enrolled in an Ontario secondary school should submit applications through their school guidance or student service offices.

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

Application dates

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

- Admission to the Summer Session Term (beginning in May) - April 1
- Admission to the Winter Session Term (beginning in Jan) - November 15

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

Admission awards

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

Frederick A. Urquhart Admission Scholarships
Eight scholarships are awarded to students on the basis of exceptional academic achievement in Grade 13.

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

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

Scarbrough College Alumni Admission Award
Awarded to a graduate of a Borough of Scarborough high school (public or separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications will be available from Scarborough colleges.

In-course awards

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

A. D. Allen Scholarship
Awarded to the outstanding student in each subject area. The scholarships are awarded in memory of Dr. A. D. Allen, a former principal of Scarborough College.

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

The All Tayyeb Scholarship
Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. The scholarship is awarded in memory of Professor All Tayyeb, a former member of the faculty in Geography.

Scarbrough College General In-course Scholarships
Awarded to the outstanding student in each year at Scarborough College, in each academic area of study. All students with excellent academic standing are considered; no application is required.

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

Scarbrough College Students' Council In-course Award
Three awards are made to students who have an average of 70% or better and have contributed to the academic activities of Scarborough College. Students must have completed at least one year at Scarborough College. Students must have three nominators for this award; one must be a member of the faculty; one must be a member of the student body.

Bladen Prize in Economics
Awarded on the basis of an essay submitted by a student specializing in Commerce or Economics on any subject covered by a B or C level course in Economics.

John Pounder Prize in Astronomy
Awarded to a full-time student with an overall average of at least 80% in astronomy, or the highest grade in any astronomy course.

William Beardsmore Memorial Prize in History
To be awarded to the student completing third year, the highest grade in the study of history. The award will be made in memory of the late William Beardsmore, a member of the Scarborough College faculty.

Diefenbaker Essay Prize
Awarded to the student in the summer course who has achieved the highest grade for an essay, 2,500 to 5,000 words in length, on any topic within the general field of Canadian Studies. The essay should have Canada as its primary, principal or exclusive focus. Essays are nominated by instructors.

Award of Academic Merit in Neurosciences
Awarded to the student in the Specialist Program in Neurosciences who has the highest aggregate standing at the end of the third year of study in the required courses of the program.

Helen Evans Reid M.D. Prize for Excellence in Scientific Communication
Awarded to the student in the Neurosciences Specialist or Major Program whose paper or project in PSYS 2003/C308 or BIOG 201/C312 is deemed to best exemplify excellence in the communication of scientific information.

Anita Flitz Gerald Prize in Women's Studies
To be awarded for the best essay in the area of Women's Studies.

Gordon Gilchrist Scholarship in Terrain and Environmental Earth Sciences
Awarded to the student in the Specialist Program in the Terrain and Environmental Earth Sciences who has the highest aggregate standing at the end of the third year of study in the required courses of the program.

Graduation prizes

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

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

All Tayyeb Prize
Awarded to the outstanding student of the graduating class in Geography.

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

The Graduation Prize in Sociology
Awarded to the student who has achieved the highest scholastic average (G.P.A.) in the Sociology Specialist or Major Program. The G.P.A. is based on all sociology courses and attempted for which a mark is entered on the transcript.
2

Academic Regulations

Student Responsibility

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

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

Course Selection

1. In selecting their courses, students must adhere to the following regulations:
   a. Courses selected must satisfy the degree requirements.
   b. Courses must satisfy the requirements of Programmes of Study: Specialist Programmes, Major Programmes or College Programmes. (The completion of an appropriate Programme(s) of study is mandatory for all students who first registered at the College in the 1980 Summer Session or thereafter when the Programme requirements came into effect.)
   c. Students proceeding to a three-year degree may include, among the fifteen courses required for their degree, no more than ten courses in any single discipline. (This regulation applies to all students who first registered at the College in the 1980 Summer Session or thereafter when this regulation came into effect.)

Digital Equipment of Canada Limited Award of Merit

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

ScARBorouGH College Honours List

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

Graduation With High Distinction and With Distinction

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

Bursaries

University of Toronto Undergraduate Bursaries

Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Student Services Office. Deadline: November 1, however, applications will be accepted throughout the Winter Session, should emergencies arise.

Scarborough College Bursaries

Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Student Services Office.
Course selection

d. Prerequisites and corequisites for each course, as stated in the course descriptions, must be met, unless waived by the instructor.
e. Students may not register for credit for a course if they have already passed another course in the course description as an exclusion to that course.
f. Students may not register for credit in a course if they have already passed the course. Students may re-register in a course if they have been excused to take the course.

g. Students who have not registered for credit in a course which is a specific prerequisite for a course they have already passed.

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

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Code</th>
<th>1st term</th>
<th>2nd term</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
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</tr>
<tr>
<td>2</td>
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<td>0.0</td>
</tr>
<tr>
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<td>D</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
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<td>E</td>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>1.0</td>
<td>Y</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

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

a. may do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" section of this Calendar,
b. must notify the Registrar of any change by means of a "Registration Change Form" submitted by the appropriate deadline, and completed in accordance with instructions issued by the Registrar.

Degree requirements

1. Three-year degree: new requirements

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

a. pass at least fifteen courses;
b. among these fifteen courses, include no more than ten courses in any one discipline;
c. among these fifteen courses, pass at least eight B-level and/or C-level courses;
d. complete the requirements of a Major Programme* or a College Programme;
e. earn a grade of "C" or better in at least seven courses, including at least six B-level and/or C-level courses;
f. earn a cumulative grade point average of at least 1.50.

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

2. Three-year degree: old requirements

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

a. pass at least fifteen courses;
b. among these, pass at least eight B-level and/or C-level courses;
c. obtain a grade of "C" or better in at least nine courses, including at least five B-level and/or C-level courses;
d. for a Bachelor of Science degree, pass at least six B-level and/or C-level courses in Science, as defined below.

3. Four-year degree: new requirements

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

a. pass at least twenty courses;
b. among these, pass at least thirteen B-level and/or C-level courses;
c. obtain a grade of "C" or better in at least thirteen courses, including at least nine B-level and/or C-level courses;
d. for a Bachelor of Science degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

4. Four-year degree: old requirements

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

a. pass at least twenty courses;
b. among these, pass at least thirteen B-level and/or C-level courses;
c. obtain a grade of "C" or better in at least thirteen courses, including at least nine B-level and/or C-level courses;
d. for a Bachelor of Science degree, pass at least nine B-level and/or C-level courses in Science, as defined below.

5. Courses in science for the B.Sc. degree

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

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

b. The following courses in Anthropology:
   - ANT11, ANT12, ANT14, ANT15, ANT22, ANT25, ANT35, ANT27, ANT29, (ANT33), (ANT36), (ANT39), ANT40, ANT43, ANT44, ANT47, ANT48, ANT52, ANT53, (ANT08), ANT121, and ANT126.

c. The following courses in Geography:
   - GGRB02, GGRB03, GGRB07, (GGRB15), (GGRB18), GGRB19, (GGRB21), GGRB24, GGRB25, GGRB29, GGRC05, (GGRC15), (GGRC23), (GGRC25), (GGRD26), (GGRD30), (GGRD32). In addition, GGRD01 may be used to fulfill the B.Sc. requirements for students researching in appropriate scientific areas of Geography.

Notes

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

2. To Pass A Course. To pass a course means to obtain a grade of "C" or better in that course, or "Credit" in a Credit/No Credit course.

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

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

5. In which courses are listed together in the same section of course descriptions in this Calendar, and in which courses share the same "discipline abbreviation" in the course code, e.g., HIS or PHY or SOC. Where students register in courses offered jointly by two disciplines (e.g. JEC138 - a joint Biology and Chemistry course in Biochemistry), students may count the course in whichever discipline they wish.

6. The usage of the term "Major Programme" changed substantially in 1980-81. What were previously called "Major Programmes" are now called "Specialist Programmes".

7. "MAT" & "STA" courses are considered to be courses in Science for purposes of determining eligibility for the B.Sc. degree. Other courses in statistical methods offered by various other disciplines may or may not count as courses in Science for purposes of this rule. Thus, for example, ANT840, GGRB02, PSY807 and PSY808 are listed in the rule and may be counted as science courses, ECO811, ECO812 and SOC806 may not.

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

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

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

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

3. Specialist Programmes

   Specialist Programmes are designed to provide depth and intensity of study within a limited area — a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Programme may be taken only as part of a four-year degree and will consist of at least nine courses. (A list of Specialist Programmes may be found on p. 41.)

4. Major Programmes

   Major Programmes are designed to provide concentration in an area of study — a discipline, a group of disciplines or a particular theme or area of study. A Major Programme may be taken as part of either a three-year or a four-year degree and will consist of six to eight courses. (A list of Major Programmes may be found on p. 41.)

5. College Programmes

   College Programmes are designed to provide an organizing framework for students desiring wide-ranging but coherent programmes of study in a major area of the curriculum. A College Programme may be taken as part of either a three- or a four-year degree. (A list of College Programmes may be found on p. 41.)

6. Approved individual Programmes

   Students may, if they wish, propose individual programmes of study, other than those described in this Calendar.
   a. Normally, such proposals will be considered favourably only from students on the Scarborough College Honours List (see page 16).
   b. Proposals should be made to the Associate Dean, who will convey them to the College Sub-committee on Academic Programmes.
   c. They may be made at any time after the session in which students complete their fourth course.
   d. Proposals submitted before 15 July will be considered in time to enable students to register in their approved Programmes in the forthcoming Winter Session. However, they should be submitted earlier, if possible.

7. Course selection for Programmes of study

   Students are responsible for ensuring that their course selection will enable them to complete the requirements of their Programme(s) by the time they complete their other degree requirements.
   a. A member of the College faculty serves as Supervisor for each Programme. In certain Programmes, approval by the supervisor of some or all courses is necessary. In all Programmes, the supervisor is available for advice concerning Programme requirements and course selection.
   b. While students in their first year of full-time study, or first four courses of part-time study, are not required to select a Programme, they should, when selecting their first-year courses, consider carefully the requirements of any Programmes they may later choose to follow. Supervisors, instructors in A-level courses, other appropriate faculty members, and counselors in student services may be consulted for assistance.
   c. Students in their second and higher years of full-time study, and part-time students who have completed more than four courses, should consult regularly with the supervisors in their Programmes to ensure that their course selection will meet Programme requirements.

8. Registration in Programmes

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

9. Programme transfers

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

10. Certification of completion of Programmes

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

11. Regulations concerning Programmes of study

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

12. St. George courses and Programmes

   Students should note that certain Programmes will require students to take some of their courses on the St. George Campus.
Programme requirements: applicable to pre-1980 students

English proficiency requirement

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

1 Students who had passed fewer than five courses as of the beginning of the 1979-80 Winter Session and wish to complete the Programme will be expected to complete the Programme requirements set out in the 1980-81 Calendar, or in subsequent Calendars.

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

3 Students who are advised nonetheless to consider the merits of the new Programmes described in the 1980-81 or subsequent Calendars and to consult with the supervisor about the wisdom of opting for one Programme over the other.

b) Such students are also cautioned that in some cases curriculum restructuring has followed the redesign of Programmes. Students will therefore require advice on selection of new courses to meet the requirements of the old Programmes.

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

Standing in a course

1 Grading scheme

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>90–100</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>85–89</td>
</tr>
<tr>
<td>A−</td>
<td>3.7</td>
<td>80–84</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77–79</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>73–76</td>
</tr>
<tr>
<td>B−</td>
<td>2.7</td>
<td>70–72</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>67–69</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>63–66</td>
</tr>
<tr>
<td>C−</td>
<td>1.7</td>
<td>60–62</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>57–59</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>53–56</td>
</tr>
<tr>
<td>D−</td>
<td>0.7</td>
<td>50–52</td>
</tr>
</tbody>
</table>

CR No value Credit in a Credit/No-credit course

E 0.3 35–49 Inadequate

F 0.0 0–34 Wholly Inadequate

NCR 0.0 No credit in Credit/No-credit course

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

2 Credit/No credit courses

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

Where a student earns a grade of "Credit" in such a course, the course counts as one of the courses at C- or better required for the degree.

The grade of No credit it a failing grade, yielding no standing in the course and no degree credit.

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

3 Standing deferred

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

4 Aegrotat standing

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

5 Extra courses

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

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

a) A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in half course are added together and this total is divided by the number of full courses (or equivalent) taken.
b) A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer).
c) A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.

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

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

b) On probation
Students shall be placed on probation as follows:

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

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

d) Suspended or refused further registration
Students who are on probation shall be liable for suspension or refusal of further registration if:

i) they have attempted at least two full courses (or equivalent) since most recently having been placed on probation, and if
ii) they still have a cumulative GPA of less than 1.50.

A probationary GPA shall be calculated for such students, being the GPA of all courses taken since the student was most recently placed on probation.

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

iii) Where the probationary GPA is less than 2.00, the student will incur suspension or refusal of further registration.

a) Students who have incurred no previous suspension will be suspened for one year.

b) Students who have previously incurred (at worst) a one year suspension will be suspended for three years.

- Students who have previously incurred a three year suspension will be refused further registration in the College.

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

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

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

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

b) Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be said to be "in good standing."

- Where such students earn a grade point average of less than 1.70, they will be suspended for one year.

- Upon their return from suspension, their academic standing will be assessed according to the appropriate rules, in (2) above.

Courses on other campuses

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

1 Full-time students

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

b) Equivalent courses

i) Full-time students may not register in any course on another campus in the Winter Session where an equivalent course is offered on the Scarborough Campus in the same session. A list of courses deemed to be equivalent for purposes of this rule, may be consulted in the Registrar's Office, in Student Services, or in any of the Divisional Offices. This rule concerning equivalent courses does not apply to the Summer Session.

ii) Exempted from this rule are students who have, at the beginning of the session, passed fourteen or more courses and who are enrolled in a Specialist Programme which specifies completion of one or more courses on the St. George Campus.

2 Part-time students

a) As part-time students are often able to take courses only in the evening (and hence have a relatively limited range of courses available) and as enrolment pressure is somewhat less for evening courses, special arrangements are available for part-time students to take courses on other campuses.

b) For purposes of these regulations, a part-time student is defined as one enrolled in three and one-half or fewer courses in a Winter Session. For purposes of application of these regulations in the Summer Session, a part-time student is defined as one who completed three and one-half or fewer courses in the preceding Winter Session.

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

3 Students should be aware that there is a limited number of places in many courses on the St. George and Erindale campuses, and that, in some departments, Scarborough students may be given a lower priority than St. George/Erindale campus students in the assignment of places.

4 Students are not normally permitted to register for courses in Faculties other than Arts and Science for credit towards their Arts and Science degrees.
Study at other universities: Letters of permission

Students in good standing may request permission to take a limited number of courses at another university for credit towards their University of Toronto degree. Such students may be granted letters of permission.

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

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

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

2 Minimum grade requirement

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

3 Accountability for courses on Letter of permission

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

4 Limits on Letters of permission

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

i. Complete at least eight courses at Scarborough College;

ii. Complete at least three B/C level courses with a grade of at least 'C' at this University.

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

i. Complete at least 11 courses at Scarborough College;

ii. Complete five B/C level courses with a grade of at least 'C' at this University.

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

<table>
<thead>
<tr>
<th>Transfer credit on admission:</th>
<th>Degree</th>
<th>I</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td># of courses which may be taken on letter of permission</td>
<td>III Year</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>IV Year</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

No letter of permission will be granted for courses taken at another post-secondary institution which is not approved by the University of Toronto. Correspondence courses, or courses deemed inappropriate for Arts and Science degree credit at this University.

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

Study at other universities: Study elsewhere year

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

1 Types of Study elsewhere years

There are basically two types of Study elsewhere year.

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

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

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

2 Fees and aid

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

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

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

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

3 Application

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

4 Regulations

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

b. A student must have completed at least eight courses, of which at least three must be in the student's programme.

c. The proposed Study elsewhere year must be approved by the discipline supervisor of the student's specialist or major programme(s) before the student is given final approval for his Study elsewhere year.

d. A student may be given credit for a maximum of five full-course equivalents on a Study elsewhere year.

e. Any plan for a Study elsewhere year must be compatible with University regulations; that is, the student will complete his last year or last five full-course equivalents at the University of Toronto.
<table>
<thead>
<tr>
<th>Degrees</th>
<th>Academic transcripts</th>
<th>Access to student records</th>
</tr>
</thead>
</table>

1. A student may receive only one undergraduate Arts and Science degree from the University of Toronto. Scarborough College students may earn either a Bachelor of Arts or a Bachelor of Science degree.

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

3. Degrees are conferred at university convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held in November or early in December. Students who have submitted the degree request form will be mailed complete information about the time and arrangements for the convocation.

| 1. The academic transcript is the official statement of the academic record of each student. |
| 2. Contents |
| a. Information to identify the student: full name, university student number, social insurance number, and date of birth. |
| b. Admission information: basis of admission (e.g., Ontario Grade XII, 85.0%) and a list of any courses completed at other universities for which the student was granted advanced standing credit. |
| c. The student's academic record, listed chronologically by session. For each session, the transcript indicates: |
| i. each course attempted, its abbreviated title, and its grade; |
| ii. the sessional grade point average; |
| iii. the cumulative grade point average at the end of the session; |
| iv. the student’s academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, or refused further registration; |
| v. completion of degree and programme requirements, and date of conferment of the degree; |
| vi. any academic honours awarded: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction. |

Copies of transcripts given or sent directly to students bear a replica signature of the Registrar, but do not bear the official College seal and are marked "unofficial".

To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario, M3C 1A4. Payment by mail should be made in the form of a cheque or money order payable to "The University of Toronto".

There is no charge for copies of transcripts sent to other divisions of the University of Toronto.

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

1. Student record information deemed to be public information

The following parts of students' personal and academic records are deemed to be public information and will be given freely to enquirers on request:
   a. whether a student is currently registered;
   b. the student's address and telephone number;
   c. for graduates of the College, the degree and date of its conferment.

Students who do not want their address and telephone number released by the College or published by the Students' Administrative Council in its annual student directory, should notify both the Scarborough College Registrar's Office (in writing) and the Students' Administrative Council (12 Hart House Circle, St. George Campus, University of Toronto, telephone 978-4509).

2. Access to other parts of the student record

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

<table>
<thead>
<tr>
<th>1 Withdrawal from a course</th>
</tr>
</thead>
<tbody>
<tr>
<td>a Students may withdraw from courses up to the following deadlines:</td>
</tr>
<tr>
<td>Course</td>
</tr>
<tr>
<td>Duration</td>
</tr>
<tr>
<td>Year-long (Y, H)</td>
</tr>
<tr>
<td>1st term (F, A)</td>
</tr>
<tr>
<td>2nd term (S, B)</td>
</tr>
</tbody>
</table>

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

b A student may effect withdrawal from a course by completing appropriately a "registration change form" and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.

c Students who withdraw from courses by appropriate deadlines are entitled to a fees adjustment. For full information, please refer to the "Schedule of Fees" published each session. The amount of the fees adjustment is determined by the date upon which the "registration change form" or other written notification is received by the Office of the Registrar.

d Students who withdraw from courses will be given or mailed a receipted copy of their registration change form. Students should retain these copies until after they have received their Statement of results for the particular session.

<table>
<thead>
<tr>
<th>2 Withdrawal from the session</th>
</tr>
</thead>
<tbody>
<tr>
<td>a Students who wish to withdraw from the College for a given session do so by:</td>
</tr>
<tr>
<td>i withdrawing from all courses, in accordance with the procedures and deadlines above; and</td>
</tr>
<tr>
<td>ii completing the procedures outlined in (b) below.</td>
</tr>
</tbody>
</table>

Where a student withdraws from the College after completing a first term course, the student retains credit for that course (or retains a failing grade). Where a student wishes to withdraw from the College before completing a course but after the deadline for withdrawal from that course, the student will not be permitted to withdraw from that course. That is, registration in the incomplete course will be shown on the academic transcript along with (presumably) a failing grade.

## Regulations governing special students

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

1. As early as possible in each course (and no later than the last date to add that course) the instructor will make available to the class the methods by which student performance will be evaluated and the relative weight of these methods.

2. After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least two-thirds of the students registered in the course.

3. The final grade in a course will normally be based on more than one examination, essay, or other similar piece of work. Normally, no one evaluation element will be worth more than two-thirds of the final grade. Exempt from this requirement are advanced seminar courses or supervised research or supervised reading courses. In such courses, more than two-thirds of the final grade may be based on a thesis, a research essay or project, or a comprehensive examination.

4. Normally at least one-third of the final grade in a course will be based on supervised examinations.
   a. In A-level courses, at least one-third of the final grade will be based upon a formal examination(s) in the Christmas examination period in December and/or in the final examination period in June.
   b. In B-level and C-level courses, at least one-third of the final grade will normally be based upon a formal examination(s) as in (a) above. Alternatively, a supervised term test(s), valued at least one-third of the final grade, may be substituted for the formal final examination upon the request of the instructor and approval of the appropriate Divisional Chairman.
   c. The following courses may be exempted from the requirement for examinations, upon request of the instructor and approval of the appropriate Divisional Chairman: advanced seminar courses; supervised reading or research courses; and performance courses such as musical performance or art studio courses.

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

6. Instructors will make available to students commentary on assessed term work and will make available time for discussion of such term work.

7. Grades, as an expression of the instructor's best judgement of each student's overall performance in a course, will not be determined by a system of quotas.

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

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

Procedures for requesting special consideration, petitions and appeals

Petitions for exceptions to the academic regulations

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

To enter a petition, the student prepares a written statement:
   i. stating clearly the special consideration requested;
   ii. stating clearly the grounds upon which special consideration is requested, that is, the reason(s) why the student believes an exception to the rules is appropriate in this particular case; and
   iii. appending documents to evidence special circumstances: medical certificates, etc.

Students who wish to submit medical certificates in support of their petitions should ask their physician:
   i. to verify that the student was examined at the time of the illness;
   ii. to state briefly the nature of the illness;
   iii. to indicate the duration of the debility caused by the illness; and
   iv. to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her academic work on medical grounds.

Students are urged to seek the advice of a counsellor in the Student Services Office before entering a petition and in preparation of the petition.

Petitions are submitted to the sub-committee on standing through the Student Services Office.

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

Students who wish to appeal any decision of the sub-committee on standing are entitled to enter an appeal to the sub-committee on academic appeals - see (6) "Academic appeals", below.

Requests for special consideration in a course

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

a. Term work
   i. Special consideration before the end of term:
      Students who are unable to write a term examination, or whose performance is adversely affected by illness or other extenuating circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, must (except as noted below) speak with their instructor as soon as possible to request special consideration.
   ii. Special consideration at the end of term:
      Where students' medical problems or other extenuating circumstances occur towards the end of the term, and where they must request extensions of time to submit term assignments or permission to write make-up term examinations after the "last day for submission of term work" (shown in the "Academic Calendar" section of this Calendar), students must submit a formal petition to the sub-committee on standing. See (1) above for information about the petition procedure. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.
   iii. Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the division offering the course. Students who wish to appeal any decision of the sub-committee on standing, may enter an appeal to the sub-committee on academic appeals - see (6) "Academic appeals", below.

b. Final examinations
   i. Students who, for reasons of illness or other extenuating circumstances, are unable to write a final examination, may request special consideration by means of a petition to the sub-committee on standing.
   ii. Students who believe that their performance on a final examination may be adversely affected because of illness or other extenuating circumstances, should (if possible) attempt the examination and then submit a petition to request special consideration.
See (1) above for information about the petition procedure. Students must submit their petitions as soon as possible and (under normal circumstances) no later than the last day of the relevant examination period.

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

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

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

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

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

The University of Toronto academic appeals board

4 Petition of marks in a course
Students who believe their work has been graded unfairly may petition their grade as follows:

a) Term work

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

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

iii) Students who wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor submitted grades for the course), may enter a formal petition to the sub-committee on standing. See (1) above for information about the petition procedure.

b) Final examinations

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

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

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

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

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

The University of Toronto academic appeals board

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

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

Petitions concerning grading practices in a course

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

Grading practices during the term

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

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

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

Grading practices after the end of term

i) Students who believe an instructor has violated any rule of the College's grading practices, and this alleged violation comes to light only after the end of term, may submit a petition to the sub-committee on standing.

ii) If the petition does not yield a satisfactory resolution to the problem, students may appeal the decision in the petition (in the usual manner) by means of an appeal to the College sub-committee on academic appeals. (See (6) below.)

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

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

b) An appeal to the sub-committee on academic appeals must, except in unusual circumstances, be commenced no later than six months after the decision to be appealed has been communicated in writing to the student by the sub-committee on standing. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the secretary of the sub-committee on academic appeals (the Associate Dean of the College).

Full information may be obtained from the Office of the Associate Dean.

The University of Toronto academic appeals board

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

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

Full information may be obtained from the secretary to the appeals board.
8 University Ombudsman

As part of the University's commitment to ensuring that, in spite of its size and complexity, the rights of its individual members are protected, a University ombudsman has been appointed to investigate grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University — student, faculty or administrative staff. The ombudsman assists in any way he can in resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, he has access to all relevant files and information, and to all appropriate University officials.

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

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

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

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

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Discipline: academic matters

Code of behaviour on academic matters

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

Academic offences

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

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

Sanctions

The following sanctions, listed in order of increasing severity, may be imposed by the University Disciplinary Tribunal upon conviction of any student of any offence:
- Caution;
- Censure;
- Assignment of a mark of zero in academic work submitted for credit;
- Failure in or cancellation of credit for any course or other academic work in respect of which any offence was committed;
- Suspension from attendance in all courses in which the student is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed and loss of credit for any course or courses which have not been completed or in which no grade or final evaluation has been registered at the time the offence was committed;
- Suspension from the University for such period as may be determined by the tribunal; or
- Expulsion from the University.

Reporting

The disciplinary tribunal may recommend, persons convicted of academic offences under the Code of Behaviour may have their names included in a report by the Provost to the academic affairs committee of the University.

Discipline: Non-academic matters

Student discipline for offences not covered by the Code of Behaviour on Academic Matters is vested, in the case of matters considered to be of University-wide concern, in the Caput. The Caput is composed of the heads of the Colleges and Faculties, the Warden of Hart House, and, in a non-voting capacity, the President of the Students' Administrative Council.

Scarbrough College Council has disciplinary jurisdiction over the conduct of all students registered in the College on all matters of local or internal concern to the College. Jurisdiction over the conduct of students while in residence rests with the Dean of Students in Residence, in the first instance, and ultimately with the Principal of the College.

Where the appropriate body or officer exercising disciplinary jurisdiction has found that a student of the University has engaged in conduct prejudicial to the interests of the University, the Caput, at its discretion, suspend or expel such student from the academic privileges of the University. Every decision of the Caput involving the expulsion of a student from the University requires confirmation of the Governing Council. The roles of the Caput, Scarborough College Council, the Dean of Students in Residence and the Principal, as described above, are contingent on their understanding that offences or actions or claims within the jurisdiction of criminal and civil courts will be referred where appropriate to those courts and will only be reviewed by the Caput where the implications to the University are considered sufficiently important to warrant such review.

Enquiries should be directed to: Office of the Vice-President, Personnel and Student Affairs, Room 112, Simcoe Hall, University of Toronto (Telephone: 978-2196).
Appendix: non-credit courses in writing skills

Students who begin their studies at Scarborough College in the 1980 Summer Session or thereafter will be required to complete the College's English proficiency requirement (see page 22 of this Calendar). The following non-credit courses are intended primarily for students who fail or do poorly on the English Proficiency Test. They are open, however, to all students who wish to improve their writing skills.

ESLA01Y (Basic Writing Skills) is intended for students for whom English is a second language.

It is offered through the University of Toronto School of Continuing Studies.

EWSA01F/S (Basic Writing Skills) and EWSA02F/S (The University Essay) are intended for students whose first language is English. A fee, to be announced, is required for enrolment in these courses. These courses do not count for credit toward the degree requirements. Note, however, that students who fail the English Proficiency Test may meet the proficiency requirement by passing the appropriate twenty-week course. Please note that the ESL course is a 20-week (40-hour) course; however, native speakers, must take both EWSA01 and EWSA02, each of which is a 10-week (20-hour) course, to fulfill the requirement. Further information about these courses may be obtained from the Writing Laboratory (S-303F; phone: 284-3369). Timetable information and registration forms may be obtained from the Registrar's Office (S-416B) or Student Services (S-302).

ESLA01Y Basic Writing Skills
Coordinator: M. Tyacke (School of Continuing Studies)
A non-credit course for students whose native language is not English.
This course is designed to increase facility in expository writing. It will concentrate on sentence structure, organization and logical development. Students will be expected to produce a weekly written assignment, as well as pass a midterm and final written examination. Students will also have the opportunity for individual help with paragraph and sentence structure. In addition to the two hours of class instruction each week, individual tutorial periods will also be arranged with the instructor.
Session: Winter Day, Winter Evening and Summer (40 hours)

EWSA01F/S Basic Writing Skills
Coordinator: A. Fisher
A non-credit course for students whose native language is English.
The aim of this course is to help students learn to construct syntactically clear and correct sentences and to develop a prose style suitable for university level work. The primary focus will be on the sentence level: grammar, punctuation, diction, usage, and style. The course will also concentrate on the organization and development of coherent paragraphs with clearly defined topic sentences. All written work will be done in class time.
Session: Summer Evening, Summer Day, Winter Day, Winter Evening (20 hours)

EWSA02F/S The University Essay
Coordinator: A. Fisher
A non-credit course for students whose native language is English.
The aim of this course is to help students learn to deal with the organization and rhetorical development of the university essay. The primary focus will be on the formulation of a thesis, the organization and presentation of ideas, and the development of paragraphs. Research methods, note-taking, incorporating quotes into essays, and so on will also be dealt with. All written work will be done in class time.
Session: Summer Evening, Summer Day, Winter Day, Winter Evening (20 hours)
### Exclusions, Prerequisites and Corequisites

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

2. **Prerequisites**  
   A student must have standing in the prerequisite course before enrolling in the course being described. Prerequisites may, however, be waived by the instructor in the course being described if he feels that there are adequate grounds for so doing. If a student registers in a course without meeting its prerequisite and without obtaining a specific waiver of the prerequisite, the student may be withdrawn from the course at any time during the term.

3. **Corequisites**  
   A student must either already have standing in a corequisite course, or he must enrol in the corequisite course at the same time as he takes the course being described. Instructors are permitted to waive corequisites if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting its corequisite, or if a student withdraws from the corequired course without obtaining specific waiver of the corequisite, the student may be withdrawn from the course at any time during the term.

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

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

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

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

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

### Programmes

The following Programmes are offered at Scarborough College:

- Anthropology*
- Astronomy & Physics
- Biochemistry
- Biology
- Chemistry
- Classical Civilization
- Classical Studies
- Commerce*
- Computer Science
- Drama
- Economics*
- English*
- Fine Art History*
- Fine Art Studio*
- French Language*
- French Language & Literature*
- Geography
- German Language
- German Language & Literature
- History*
- Italian Language
- Italian Language & Literature
- Linguistics
- Mathematics
- Medieval Civilization
- Music
- Neurosciences
- Philosophy*
- Physics
- Political Science*
- Psychology*
- Quaternary Studies
- Renaissance Studies
- Russian Language & Literature
- Sociology*
- Spanish Language
- Spanish Language & Literature
- Women's Studies
- College Programmes
- Canadian Studies
- Development Studies
- History of Ideas
- Humanities
- Myth & Religion
- Russian & Related Studies

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

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

Because of the vastness of its subject matter, Anthropology is traditionally divided into four subfields: Social-Cultural Anthropology, Prehistory, Archaeology, Physical Anthropology, and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three only, with occasional offerings in the last. Students interested in pursuing an appropriate course sequence in one of the subfields are recommended to consult with one of the faculty in that subfield. Students will be directed to appropriate faculty by the Supervisor of Studies.

Specialist Programme in Anthropology
Supervisor: H.B. Schroeder (264-3136)

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

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

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

1. ANTA01Y Introduction to Anthropology
2. Two courses from among the following:
   ANTB15Y Biological Anthropology
   ANTB30Y Introduction to Social Organization
   ANTB26Y Introduction to Prehistoric Archaeology
3. Six full-course equivalents from the remaining B- and C-level courses in Anthropology
4. One full-course equivalent in supervised reading and research
   ANTC03Y
   ANTC04S
   ANTC13F
   ANTC14S
5. At least two full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

Major Programme in Anthropology
Supervisor: H.B. Schroeder (264-3136)

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

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

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

ANTB05Y Social Anthropological Study of Africa
A review of certain cardinal social and cultural background features of the continent, followed by a more intensive study of comparative religious. Guest lectures will help round out the perspective.

This will be a study of the major institutions of African society, their economy, economic, religious and domestic organizations. Seminar: one two-hour session.

Prerequisite: ANTA01
Session: Winter Day
C. Hopfen

ANTB14Y Human Evolution
An analysis of the phylogeny of man. The issues and controversies that form the theoretical framework to the understanding of fossil evidence. Four days per week for a single term.

Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil cast materials.

The course involves an analysis of the rise of evolutionary theory through the development of genetic theory and the eventual rise of the synthetic theory of evolution. A brief survey of the evolutionary development of vertebrates, a survey of prehistoric hominids and the major portion of the course deals with a survey of the discovery of fossil hominids and attempts to synthesize a meaningful interpretation out of what is presently known concerning human origins.

The goals of the course are to introduce evolutionary theory in a historical context, to survey the history of the discovery and interpretation of our ancestors and to attempt to provide a meaningful understanding of the selection pressures which culminated in the phenomenon of modern linguistic, culture-bearing Homo sapiens. Lectures with discussion and labs.

Prerequisite: ANTA01; ANTB15 is recommended
Session: Summer Day
C. McFet (and Staff)
**ANTB15Y Biological Anthropology**
A study of the human place in nature: origin (Fall) and ongoing evolution (Spring). Basic to the course is an understanding of the evolutionary theory of origin and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologists.

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

Prerequisite: ANT A01 or ANT B14 or Permission of instructor
Session: Winter Day
F.D. Burton

**ANTB18F Economic Anthropology**
A consideration of comparative economic systems in ecological and adaptive perspective, and of the nature of methods of production as a developmental process and its relation to total societal frameworks.

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

Prerequisite: ANT A01
Session: Winter Day
R.W. Shirley

**ANTB18S The Cultures of Modern Canada**
A study of the contemporary cultures in Canada. Indigenous peoples (Métis-Saskatchewan and former immigrant groups, both rural and urban, will be treated in the same general framework.

The course will attempt to place local and regional ethnic groups and sub-cultures in a national political and economic context. A range of cultural and regional groups will be considered to illustrate the adaptation of these groups to the local contemporary social setting and to the wider contemporary Canadian scene. Case studies will include agriculturally-based religious communities, selected urban ethnic groups, French Canadian townspeople, Newfoundland and outport communities, and Native Canadians. Two one-hour lectures and one one-hour discussion per week.

Session: Winter Day

**ANTB20Y Introduction to Social Organization**
A consideration of variations in human social structure, focusing mainly on kinship organized societies. The logic of Anthropology is that what is useful to understand the human is to understand that which is relatively static and is to Art; it is a discipline of the subject. (Fox).

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

Prerequisite: ANT A01
Session: Winter Day
M. Lambek

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

Twentieth century Canada marks the re-growth of native culture with the appearance of new societies on trap lines and reserves, the formation of co-operatives, the acquisition of technical skills, unique arts forms and a living literature. The pan-indian movement, and the emergence of the Inuit, Mennonite, and other ethnic groups, together disclose both a new identity and a new mosaic.

Session: Winter Day
T. McKeen

**ANTB22Y Introduction to Prehistoric Archaeology**
A survey of the anthropological sub-discipline which is concerned with human socio-cultural development during the past three million years. Specifically, the course reviews the aims, methodology and results of prehistoric Archaeology in both the New and Old Worlds.

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

Prerequisite: ANT A01
Session: Winter Evening
H.B. Schroeder

**ANTB41S Pre-industrial Technology**
A survey of the diverse techniques that create the objects of human "material culture". This course is the mainstay of those who are interested in the functional aspects of mammalian molaris. The significance of teeth in primates and human paleontology, as well as dental histology are also treated.

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

Prerequisite: ANT A01 or ANT B03; ANT B14 and ANT B15 are recommended
Session: Winter Day

**ANTB44Y Physiological Anthropology**
Physiological principles and systems, ecological principles and systems, and the interrelationships of the two areas. The course is designed to give the student an understanding of physiology in its ecological setting, i.e. physiological Anthropology. An anthropological approach to physiology involves considering the effects of evolutionary contexts and comparative physiology.

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

Prerequisite: ANT A01 or BIO A03
Session: Winter Day
L. Sawchuk

**ANTB47F Human Skeletal Biology**
Structure and function in the human skeleton. The study of the skeleton and the ontogenetic as well as the phylogenetic development of skeletal elements is treated holistically. Palaeoecology and forensic aspects are also considered.

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

Prerequisite: ANT A01 or BI0 A03; ANT B14 and ANT B15 are recommended
Session: Winter Day

**ANTB48S Human Odontology**
The analysis of primate dentitions is approached from a phylogenetic and ontogenetic perspective. The evolution of dental structures among the vertebrates is stressed, with special emphasis on the functional aspects of mammalian molars. The significance of teeth in primates and human paleontology, as well as dental histology are also treated.

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

Prerequisite: ANT A01 or BI0 A03; ANT B14 and ANT B15 are recommended
Session: Winter Day

**ANTB51Y Medical Anthropology**
The examination of health and disease in sociocultural and ecological perspective. Emphasis is placed on variability of populations in terms of both disease susceptibility and cultural means of definition and treatment.

The course is designed to introduce students
to the basic principles and concepts of medical anthropology, focusing on the interrelation of biological and cultural variables and processes. Principles of epidemiology, patterns of inheritance, evolutionary processes, the cultural specificity of notions of health and illness, causation and cure, and the social and symbolic organization of illness are considered. Specific topics include: infectious diseases in historical perspective, ethnic variation of constitutional disease (focusing on World Dewey), curing roles, and the role of medicine in traditional African and Latin American societies (shamanism, herbalism, sorcery, etc.), health care delivery and innovation in the Third World, mental illness and the social control of deviance. Prerequisite: ANTA01 Session: Winter Evening I. Sawchuk, M. Lambek

ANTB52Y Field Methods in Archaeology
A consideration of the practice of archaeology, special techniques and problems, with intensive experience in an actual site situation. The course will be offered during the summer. Since it will be necessary for students to live within commuting distance of the site, interested individuals should contact the instructor for details and arrangements. These six weeks of full-time excavation will be carried on with lectures and field trips to provide further insights into the use of archaeology as a tool in historical reconstruction and interpretation. Limited enrollment: 25. Prerequisite: ANTA01, ANTB26; HIS004 recommended as well Session: Summer Day M. Latta

ANTB53Y Classification and Material Culture
This course deals with a number of the most widely accepted classification systems developed for stone, ceramic, and other technologies in the Old World and North America. The objective is to gain a practical understanding of the application of these classification systems with reference to varied collections of material culture at Scarborough College. The theory behind each system and its relevance to modern technology will also be considered. Classification is basic to anthropological analysis, and a thorough knowledge of existing classifications of material culture is essential for any student planning advanced work in archaeology or museology. Prerequisite: ANTB26 Session: Winter Day M. Latta

ANTB55Y Cultures of the Middle East and the Islamic World
The Islamic world embraces a bewildering diversity of cultures, environments, and even languages. Yet all are united by bonds of a common faith that is itself a singular system. This course examines similarities and variations among contemporary and traditional Muslim societies from an anthropological perspective. It includes consideration not only of Middle Eastern and North African populations, but also of Islamic sub-Saharan Africa, Asia, and Indonesia. Prerequisites: none - it is recommended that students have completed one A-level course in the Social Sciences or Humanities. Session: Winter Day

ANTB666 and C045 Directed Reading in Anthropology
A directed exploration of specific topics in anthropology. Prerequisite: instructor's consent. Prerequisite: Permission of instructor Session: Winter Day, Winter Evening, Summer Evening Members of Faculty

ANTC11Y The Anthropology of Women
A consideration of the biological and cultural factors which influence the role of women in traditional and contemporary societies. Such topics as the role of women in society, male/female relationships, and myths and rituals associated with women and gender roles will be examined in a variety of cultures. Students will have the opportunity to study aspects of this subject in detail in a seminar setting. Prerequisite: One B-level course in the Social Sciences or Humanities Session: Winter Evening M. Latta

ANTC13F and C145 Advanced Research in Anthropology
Directed critical examination of specific problems in Anthropology, based on library and/or field research. Individual tutorials, as arranged. Prerequisite: Permission of instructor Session: Winter Day, Winter Evening, Summer Evening

ANTC17Y Theory and Methodology in Social and Cultural Anthropology
An overview of the history of ethnographic thought, focusing on certain key theoretical debates which run through it and largely determine the "state of the art" today. Evolutionary, diffusionist, psychological, cross-cultural, functionalist, structuralist, and post-structuralist approaches will be considered through selected writings from such major figures as Tylor, Durkheim, Boas, Kroeber, Malinowski, Radcliffe-Brown, and Levi-Strauss. An attempt will be made to understand these individuals in terms of the social and intellectual climates in which they wrote. Exclusion: ANTC16 Prerequisite: ANTA01 and ANTB20 or permission of instructor Session: Winter Day M. Lambek

ANTC27Y Advanced Archaeological Methods: Data Description and Presentation
An intensive examination of the methods and procedures by which excavated archaeological material is organized and prepared for presentation and interpretation. Method of instruction consists of both labs and lectures. Topics of study include: methods of archaeological data organization and management; basic interpretive techniques including descriptive statistics and cluster analysis; preparation of visual presentations such as photographs, cartography and artifact illustration. Exclusion: ANTB27 Prerequisite: ANTB26 Session: Winter Day

ANTC44F Background to Modern Archaeology
An introduction to the history and theory underlying modern archaeological methods and interpretations—and perhaps some insight into the "Romance of Archaeology" through the medium of original literature and site reports. The course reviews major trends in the development of prehistoric archaeology as a scientific discipline in both hemispheres. Exclusion: ANTB27 Prerequisite: Any B-level course in Archaeology Session: Winter Day

Courses Not Offered in 1982-83

ANTB01F Ecological Anthropology Exclusion: (ANTB10) Prerequisite: ANTA01

ANTB03F The Americas: An Anthropological Perspective Exclusion: ANTA01

ANTB07S Anthropological Theory Exclusion: ANTA01

ANTB11F Human Behaviour in the Stone Age Exclusion: ANTA01 (ANTB26B) is recommended

ANTB12S The Rise of Civilization Exclusion: ANTA01 (ANTB26) is recommended

ANTB21Y Primate Behaviour Exclusion: ANTA01 or PSY001 or BIO003

ANTB22Y Comparative Mythology Exclusion: ANTA01

ANTB24Y The Organization of Group Cultures Exclusion: ANTA01; a course in Sociology or Geography or Psychology or permission of instructor

ANTB30Y Language and Culture Exclusion: ANTB26

ANTB32F Political Anthropology Exclusion: ANTA01

ANTB37S Prehistory of Mexico and Mesoamerica Exclusion: ANTA01

ANTB38F Prehistory of North America Exclusion: ANTA01

ANTB39Y Human Diversity Exclusion: ANTA01, ANTB15 is recommended

ANTB40F/S Anthropological Demography Exclusion: ANTA01, ANTB15 is recommended

ANTB43S Quantitative Methods in Anthropology Exclusion: ECO01; PSY007 Prerequisite: ANTA01, ANTB15 and ANTB26 are recommended

ANTB46S Enculturation and Childhood Exclusion: ANTA01 or permission of instructor

ANTB49S Law and Society Exclusion: ANTA01 or permission of instructor

ANTB50F Fact and Fiction in Anthropology Exclusion: ANTA01
**Arts**

**Specialist Programme in the Arts**

**Supervisor:** T. McGee (284-3126)

The Specialist programme in the Arts is designed for all those students who would like to acquire a broad foundation of knowledge in Fine Art, Drama and Music, while at the same time developing expertise in one of these areas.

We recognize that much artistic work cuts across the strict boundaries of these disciplines and this programme will allow the student to explore the inter-relationships among the arts. Such exploration would be a stimulating experience to any student in the humanities. The programme is also intended to provide career preparation for students who are interested in such fields as arts administration and public and high school teaching.

The course requirements for a specialist programme in Arts are as follows:

1. **The Major Component:** The 6 courses to be chosen as the major component are the same as the major programme in each of the four areas. Consult the individual disciplines under major programmes for the specific courses.

2. **The Minor Component:** Two of the following programmes must be chosen in areas other than the Major Component:

   - Minor Component in Drama: DRAB01Y, DRAB03Y, DRAB04Y
   - Minor Component in Fine Art History: FARA01F, FARA11S, FARA12F, FARA13S,
   - plus one FCE at the B-level (supervisor’s approval required).

3. **Minor Component in Music:**
   - MUS01Y, MUS11Y, plus an additional 1.5 FCE’s in Music.

4. **One FCE from:**
   - HUMB09F Women Artists in Society
   - HUMB07Y Introduction to Cinema
   - HUMB09Y Creative Writing: An Introduction
   - PSYB05F Sensation and Perception*
   - PSYB01F Perceiving and Knowing*
   - PHIL03F Philosophy and Art

5. **HUMC01H in Arts to be taken after 10 courses.**

**NOTE:** (require a prerequisite course)

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**Astronomy**

**Specialist Programme in Astronomy and Physics**

**Supervisor:** P.P. Kronberg (284-3378) and J.D. King (284-3364)

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

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

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

**First year:**

**PHYA03Y** Physics for the Physical and Life Sciences

**PHYA02Y** or **MATB05Y** Calculus

**MATB02Y** or **MATB01Y** Calculus with Analysis

**PHYA02Y** or **MATB05Y** Calculus with Analysis

**Second year:**

**PHYB01S** Electricity and Magnetism I

**PHYB04F** Waves

**PHYB09S** Thermodynamics

**PHYB17S** Introduction to Quantum Physics I

**PHYB18F** Special Relativity

**ASTB02H** Techniques of the Calculus of Various Variables I

**MATB41F** Techniques of the Calculus of Various Variables II

**MATB42S**

**PHYB50F** Analysis I

**MATB55S** Analysis II

**Third year:**

**PHYC01F** Quantum Physics II

**JMPM02S** Advanced Classical Mechanics

**PHYC03Y** Electricity and Magnetism II

**MATC01F** Differential Equations I

**MATC06F** Complex Analysis I

**ASTB01Y** Topics in Astrophysics: Origin and Evolution

**Fourth year:**

**JFAC10Y** Relativity and Cosmology

**ASTC01H** Research Topic in Astronomy

**AST420Y** Astrophysics

**PHYC35H** Introduction to Nuclear Physics

**PHYC37H** Elementary Particle Physics

**PHYC45Y** Modern Optics and Radiation

**PHYC45Y** Quantum Theory

**PHYC45Y** Statistical Mechanics

**PHYC45Y** High Energy Physics
Major Programme in Astronomy and Physics

Supervisor: R. C. Roeder

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

PHYA03Y Physics for the Physical and Life Sciences

PHYA02Y Practical Astronomy

MATB26Y Calculus

MATA55Y Calculus with Analysis

ASTA02Y Introductory Astronomy and Astrophysics

Second year:

PHYB01S Electricity and Magnetism I

PHYB04F Waves

PHYB17S Introduction to Quantum Physics I

ASTB02H Practical Astronomy

MATB41F Techniques of the Calculus of Several Variables I

MATB42S Techniques of the Calculus of Several Variables II

MATB50F Analysis II

MATB55S Analysis II

Third year:

ASTB01Y Topics in Astrophysics

One additional full course equivalent from

PHYB09S, B18F, C01F, C03Y, C06F, ASTC01H

ASTA02Y Astronomy and Astrophysics: An Introduction

In this modern look at the Universe an appreciation of the techniques and implications of astronomical observations is developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the farthest limits of the observable universe.

The course is designed to equip students with the fundamental knowledge and skills required for further study in astronomy and related fields. It provides a solid foundation for students planning to pursue careers in research, education, or related fields.

The course is divided into the following sections:

- **ASTA03Y Introduction to Astronomy**
  - A description of the solar system, stars, galaxies, and the nature of the Cosmos in which we live. The mechanisms which make our sun and other stars shine are explained, and the nature and evolution of our solar system, star systems, galaxies, and the universe as a whole are discussed in a manner suitable for the non-scientist student. Methods and techniques for exploring the topics are described, including the use of recent research.
  - Two lectures and one tutorial per week.
  - Exclusion: ASTA03 Pre-requisite: Grade 13 Physics, Grade 13 Functions and Relations. Session: Winter Day C.C. Dyer

- **ASTB02H Practical Astronomy**
  - Practical experience in astronomical photography, spectroscopy and photometry using the College telescopes.
  - The methods of astronomical photography, spectroscopy and photometry will be studied. Experimental work specifically suited to obtaining data from observations with the 12 inch Questor telescope will be emphasized. Photographic, spectrographic, and photometric equipment will be available for students during times suitable to individual students for use in their projects.
  - This course is intended primarily, but not limited to, students in the Major and Specialist Programmes in Astronomy and Physics.
  - Exclusion: ASTA03 Pre-requisite: PHYA03 or PHYA02, MATB26 or MATB55. Session: Winter Day P. G. Martin

- **ASTB03S Great Moments in Astronomy**
  - An examination of the people, the background and the events associated with some major advances in astronomy. Emphasis is given to the role of the few key individuals and to how their ideas have revolutionized our understanding of nature and the Universe. Implications of the revised outlook are also discussed. The course will focus on the first measurement of stellar distances; the prediction of the existence of Neptune; the discovery of the nature of comets; the proof of the existence of "island universes"; the birth of the theory of stellar structure, the detection of the cosmic fireball; and the expansion of the Universe. The perspective gained is used to assess current astronomical research and its impact on society.
  - The course is intended primarily for students not in Physical Science who, in their second or higher years, wish to acquire a better understanding of the origins and significance of our present world view. A term paper, dealing in detail with an aspect of one of the topics is required.
  - Exclusion: ASTB03 Pre-requisite: PHYA01 or PHYA02. Session: Winter Evening R. C. Roeder

**ASTC01H Research Topics in Astronomy**

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

Research on some topic of current interest in astrophysics and write a report ("mini-thesis") on his work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 30 hours of work will be done during the year, following which the mini-thesis will be submitted. For more detailed information see Professors Kronberg, Martin, or Roeder. The bibliography is dependent upon the topic selected.

**JPCA01Y Relativity and Cosmology**

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

Exclusion: PHYA01. JPCA04, PHYA18F would be desirable.

Session: Winter Day
Biological Sciences

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

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

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

Supervisors and other staff members should be consulted if you have questions about your Programme in Biology, or the year-to-year sequence of taking courses.

Specialist Programme in Biology
Supervisor: I.R. Brown (284-3213)
This Programme includes the following fourteen full-course equivalents:

1 BIO031
2 At least one full-course equivalent from each of the following core areas:
   a Genetics and Evolution: BIO05Y, BIO11Y, BIO23Y
   b Physiology and Biochemistry: BIO20Y, BIO20X, BIO17Y, BIO17X, BIO16Y, BIO16X, BIO16Z
   c Ecology and Environmental Studies: BIO21Y, BIO21X, BIO21Z
   d Morphology and Taxonomy: BIO08Y, BIO13Y, BIO20X, BIO22Y, BIO24Y, BIO27Y

3 Five other full-course equivalents in Biology, unspecified. These must include at least one full-course equivalent at the C-level and the plant sciences, e.g., BIO186Y, BIO13Y, BIO24Y, BIO27Y, BIO246Y, BIO276Y, BIO211Y, BIO212Y. These five courses may include courses offered on other campuses of the University of Toronto subject to the general regulations (cf. p. 60 of 1982-83 Calendar). For a list of courses approved for this purpose, consult the Life Sciences Divisional Office.

4 Three courses in cognate disciplines:
   a CHMA02Y
   b PHYS06Y or PHYA03Y
   c Any one of the following: MATA22Y, MATA26Y, or MATA27Y or MATA65Y

One course from each of the above groups must be taken.

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

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

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

Major Programme in Biology
Supervisor: D.D. Williams (284-3211)
This Programme must include BIOA03Y and any six full-course equivalents of the B-level courses offered by the Biology section of Life Sciences at Scarborough College, with the following restrictions:

1 At least one full-course equivalent must be in the plant sciences and one in the animal sciences.

2 At least one full-course equivalent from each of groups 2(a), (b), (c), and (d) above.

3 Courses required as pre- and co-requisites for any of the above courses which are not offered as Biology courses may not be considered as one of the seven required for a Major Programme in Biology. This applies specifically to Microbiology which has a Chemistry course as a prerequisite.

The requirements for the Specialist Programme in Biology include courses in Mathematics, Physics, Chemistry and a non-science course (see above). Thus a simple addition of several Biology courses will not satisfy the requirements for the Specialist Programme in Biology. Students are referred also to the following Programmes listed under Chemistry: Major Programme in Biochemistry.

BIOA03Y Introductory Biology
The chemical constituents of cells, cell structure and function, inheritance, the structure and function of genes, early developmental processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, basic ecology, plant hormones, evolution. Two one-hour lectures and one three-hour laboratory per week.

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

Exclusion: Not open to students who are taking NSCA02.
Session: Winter Day
The Faculty

BIOB02Y Basic Microbiology
The general properties of bacteria, fungi and viruses, their structure, function and relationship to man, employing selected organisms to demonstrate their significance in industry, research and the health sciences. The latter part of the course presents a survey of bacterial and animal viruses, and aspects of pathogenicity and immunity. Laboratories include practical training in basic microbiological techniques.

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

Prerequisite: BIOA03
Session: Winter Day
J. Silver

BIOB05Y Genetics
A lecture and laboratory course in basic genetics and cytogenetics, with examples chosen from work on bacteria, fungi, Drosophila and vertebrates, including man. Mendel's principles, linkage, mapping, assignment of genes to chromosomes, structure of gene, genetic control of protein synthesis, regulation of gene activity, chromosome structure, mutation, genetic disease, and heredity. Lectures, laboratory, work problems, discussion.
Prerequisite: BIOA03
Session: Winter Day

BIOB06Y Plant Physiology
A basic lecture and laboratory course on the physiology of plants. The green plant as a functional organism; water and salt uptake and translocation, water loss; mineral nutrition, carbohydrate, protein and lipid metabolism. Enzymology, Photosynthesis and respiration. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
G.F. Israelskarn

BIOB07Y Invertebrate Zoology
General survey of the invertebrate animals with emphasis on those groups of numerical, economic and medical importance.

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

BIOB11Y Animal Population and Evolution
A study of the process of heritable changes in animal populations with special regard to population genetics, population dynamics and species diversity.
The lectures deal with genetic variation and its nature, natural selection, genetic drift, and the modes of speciation. The laboratories consist of problems in population genetics and the discussion of current literature on evolutionary and population topics. Prerequisite: BIOA03
Corequisite: BIOB05
Session: Winter Day
I. Campbell

BIO12Y Fundamental of Ecology
The scientific study of the interactions that determine the distribution and abundance of organisms. A course intended to promote the development of an ecological conscience but not a course devoted to the problems of pollution and populations. Factors limiting the distribution of organisms such as adaptation, behaviour, and dispersal; attributes of populations: population estimation, life table analysis, estimation of the innate capacity for increase, and population growth; species interactions: competition and predation; theories of population regulation; ecological genetics and evolution; attributes of communities: concept of the community, species diversity, community patterns and classification, succession and climax; concept of the ecosystem; biomes of the world; community energetics; community nutrition, other topics of general ecological interest including the human population problem, island biogeography, and systems analysis. Prerequisite: BIOA03
Session: Winter Day
R. Boonstra

BIO16Y Aquatic Systems
A lecture seminar course with optional field work, on the ecology of ponds, lakes and rivers, with special reference to energy transfer in these ecosystems. Geographical background: origin of lakes. Energy balance: light and heat. Properties of water. Circulation and wave motion. Material cycling: Chemistry of fresh and salt water. Nutrient cycling. Primary production. Phytoplankton population dynamics; seasonal successions. Evolution of lakes. Natural and cultural (man-made) eutrophication. Secondary production. Lake and stream fisheries. Effects of pollution. Man's effects on water bodies. Fisheries and applied topics. Two hours of lectures per week. Informal tutorials, seminars by visiting scientists, and field/lab work amount to about two hours per week. In addition, students are expected to write two major essays on assigned topics. Prerequisite: BIOA03 and at least one B-level Biology course.
Session: Winter Day
C. Nalewajko (Sparring), D.D. Williams

BIO17Y General and Comparative Physiology
The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (i) body fluids and circulation, (ii) ionoc and osmotic balance, (iii) excretion, (iv) gas exchange, (v) nerve and muscle physiology. First term - nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation. Second term - nervous and bioelectricity, synapses and integration, muscle and neuromuscular systems, sensory receptors and C.N.S. hormones. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
C.K. Govind

BIO18S Biology of Macromolecules
The basic concepts of the molecular biology of the gene - key experimental observations. Main topics will be the mechanisms of gene replication and regulation of gene activity in higher and lower organisms. Students will receive laboratory experience in the use of a range of molecular biology techniques. This course is divided in two sections. The first deals with the structure and replication of DNA. The second concentrates on RNA and protein synthesis. Laboratory exercises include (i) purification of DNA and RNA, (ii) isolation of DNA polymerase, (iii) DNA reassociation kinetics, (iv) purification and gel electrophoresis of chromosomal proteins. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
I.R. Brown

BIO20F Cell Ultrastructure
A course dealing with current concepts of animal and plant cell ultrastructure and specifically with the basic structure, development, and function of cell organelles. Laboratory work emphasizes the interpretation of cell components as they appear in electron micrographs. Topics include: (i) methods used in the biological application of electron microscopy; (ii) cell membranes and cell surfaces; (iii) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastsids, etc. Lectures and laboratories.
Prerequisite: BIOB13 or BIOB24 or BIOB27
Session: Winter Day
R. Dengler, J. Youson

BIO22Y Comparative Vertebrate Morphogenesis
A lecture and laboratory course dealing with the structural diversity of the vertebrates. Emphasis is placed on the evolution, development and anatomical specialization of organ systems as they are related to the physical demands placed upon the organism by its environment. Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends which have led to the anatomical and physiological diversification of the modern vertebrates, are examined. Practical work includes the dissection of representative vertebrates. Lectures and laboratories.
Prerequisite: BIOA03
Session: Winter Day

BIO23Y Developmental Biology
The study of morphological change and underlying molecular and cellular processes which occur during the life history of an organism. An analysis of development in a wide variety of organisms ranging from the unicellular to the multicellular. Particular reference will be given to the concept that regulation of gene activity is fundamental to development. In the Fall term the first half of the Spring term the principles of animal development are developed. The following model systems are employed: cnidarian, lens development, planaria, and Caenorhabditis Eugenes. The last half of the second term R. Dengler discusses aspects of plant development. Some of the topics dealt with in this portion of the course are - comparison of developmental mechanisms in plants and animals, morphogenesis of fertilized eggs in primitive and advanced plants, and the role of cell division and cell enlargement in the development of plants. Lectures and laboratory work.
Prerequisite: BIOA03
Session: Winter Day
I.R. Brown and R. Dengler

BIO24Y Plant Kingdom
Evolutionary relationships between the major groups of plants are examined through a comparison of vegetative form, reproductive structures and life histories of selected living and fossil organisms. The first term deals with the comparative morphology of the nonvascular plants - fungi, algae, fungi, ferns and bryophytes. The second term covers the vascular plants - club mosses, spikemosses, quill worts, horsetails, ferns, gymnosperms and angiosperms. Particular emphasis is given to the algae, fungi and seed plants.
Session: Winter Day

BIO27Y Comparative Vertebrate Histology
The structure of the cells, tissues, and organs making up the major body systems of a variety of vertebrates as revealed through the light and electron microscopes. Differences and similarities in growth, development, evolution, and function. Each student will be required to do an individual microtechnique project.
First term: methods used in the preparation of tissue for examination in the light microscope. Second term: description of the various tissues of the body, including epithelium, connecive, muscle, nervous tissue, etc.). Second term: the relationship of the above tissues in the organ systems (sense, digestive, respiratory, excretory, reproductive, etc.). Two one-hour lectures and three hours of laboratory per week. Session: Winter Day
J. Youson

BIO31F Invertebrate Neurobiology
An examination in lectures, seminars and laboratory work, of current topics on invertebrate neurobiology. These topics will revolve around the neural synaptic and muscular mechanisms underlying certain simple behaviors and their development especially in insects, crustaceans, and mollusks.
One two-hour lecture per week; seminars and laboratory work to be arranged with class.
Prerequisite: BIOA03
Session: Winter Day
C.K. Govind

JBCB35Y Introductory Biochemistry
An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics. Topics covered in the course include: metabolism of sugars, amino acids and lipids.
and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.

The teaching method will consist of two one-hour lectures per week. The text used is: Biochemistry: The Molecular Basis of Cell Structure and Function - by A.L. Lehninger, Worth Publishers Inc.

Prerequisites: BIOA03, CHMB05

Session: Winter Day

J. Gurd

JBC83EH Laboratory in Biochemistry

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

The course will introduce students to practical and theoretical aspects of techniques used in biochemical research, including: spectrophotometry; chromatography; radioisotopes; electrophoresis; protein fractionation; etc.

The teaching method will consist of three hours of laboratory work plus one hour of lecture each week.

Prerequisites: BIOA03, CHMB05

Corequisite: JBCB35

Session: Winter Day

J. Gurd

BIOB43Y General Vertebrate Biology

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

Prerequisites: BIOA03, BIOB2, (BIOB17, BIOB11, BIOB12, BIOB27 useful but not required)

Session: Winter Day

A. Weatherley

BIOB48F Bacterial Physiology and Ecology

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

Prerequisite: BIOB02

Exclusion: (BIOA41)

Session: Winter Day

J. Silver

BIOB48S Biology of Algae

A lecture and laboratory course on the algae, with the objective of providing an understanding of their basic role in natural aquatic and terrestrial environments. Limited enrolment: 25.

Course content: principles of algal taxonomy; physiology of photosynthesis; light, temperature, nutrients and growth; mechanisms of adaptation to adverse environments; osmoregulation; and heterotrophy.

Prerequisite: BIOA03

Exclusion: (BIOA41)

Session: Winter Day

C. Naletwijko (Sparling)

BIOC01Y Supervised Study in Biology

An independent study course designed to permit intensive examination of the literature of a selected topic and/or laboratory or field project in Biology. Supervision of the work is arranged by mutual agreement between student and instructor.

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

Session: Winter Members of Faculty

BIOC02Y Directed Research in Biology

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

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

Session: Winter Members of Faculty

BIOC09F Field Course in Aquatic Biology

A course given in late August or early September, before the beginning of term. Physical, chemical and biological aspects of various aquatic habitats will be studied intensively in a two-week period of laboratory and field work, supplemented by lectures and discussion groups. Limited enrolment: 25.

The objectives are to gain practical research level experience in a whole ecosystem study of a lake and/or stream. During a fourteen day period (and of August-beginning of September) students will study a lake or stream in the vicinity of Toronto. An intensive sampling program will include measurements of: physical and chemical parameters, nutrients, primary production, phytoplankton and macrophytes, zooplankton, benthos and fishes. Field and laboratory work will be supplemented by lectures and discussion groups.

Prerequisite: BIOA03; BIOB15; permission of instructors

Session: Winter Day

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

BIOC12H - Physiology and Biochemistry of Plant Growth and Development

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

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

Prerequisite: BIOB06

Corequisite: JBCB35 recommended

Session: Winter Day

G. F. Israelstam

BIOC14F Ecological Methods

A course dealing with the biological application of statistics at a more advanced level. An introductory knowledge of statistics is assumed. The course is designed for students who have developed their statistical or aquaculture science skills, or have experience in related biological fields, such as forestry, fisheries, or wildlife.

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

Prerequisite: BIOB12 and an introductory statistics course such as PSYB07, STAB52, GGRB02, ANTB43, ECOB11, or the permission of the instructor.

Session: Winter Day (labs. Evening.)

R. Boonstra

Courses Not Offered in 1982-83

BIOB13Y Plant Structure and Development

BIOB47Y Plant Ecology

BIOC10S Phytoplankton - Methods and Techniques

BIOC11Y Quaternary Plant Ecology

BIOC16S Marine Biology: Habitats and Communities

BIOC17F Marine Biology: Nutrients and Productivity

BIOC13S Environmental Biology of Fish Populations

Fish are among the most widely distributed and successful of vertebrates and as such offer great scope for the study of evolution, environmental physiology, ethology and ecology. This course is an introduction to the study of population dynamics applied to fisheries studies. It is also considered.

Prerequisite: BIOB43

Session: Winter Day

A. Weatherley
Canadian Studies

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

Specialist Programme in Canadian Studies

Supervisor: T. McFeat (284-3252)

This programme is specifically intended to provide an academic framework within which a student may draw upon the many course offerings which relate to Canadian affairs within the diverse disciplines of the Scarborough College curriculum. Specialist studies operate on two levels: (1) a theoretical understanding of the range and complexity of Canada's social, cultural, and natural resources, and (2) practical applications of various research methods to problems of a distinctively Canadian nature. Students seeking Specialist standing in a 20 course programme must select not less than 13 course credits according to the following scheme:

First Year
1 French proficiency requirement: FRE06Y, or FRE07Y followed by FRE06Y.
2 At least three full course credits from the following:
   ANTB16S Cultures of Modern Canada
   ENGB07Y Canadian Literature in English
   FARB06Y The Arts in Canada: 1670 to Present
   or:
   FARB16Y The Canadian Landscape
   HISB04Y Introduction to Canadian History
   POLB50Y Canadian Government and Politics
   Recommended: Further basic courses in the disciplines in which the student plans to carry on advanced work.

Succeeding Years
3 At least one of:
   FREL36F/S French-Canadian Novel to 1945
   FREL37F/S French-Canadian Novel since 1945
   FREL38F/S Theatre of French Canada
   FREL39F/S French Language in Canada
   HISB42Y French Canada: Origins to Present

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

   ANTB21Y North American Background to Canadian Native Peoples
   ANTB27Y Archaeological Method and Theory
   Modern cultures, both native and ethnic:
   ANTB16S Cultures of Modern Canada
   SOCC20Y Ethnic and Place Relations
   SOCC22F/S Changing Family Life in Canada
   LINC12F Diachronology
   Historical events following European immigration:
   HISB04Y Introduction to Canadian History
   HISB42Y French Canada: Origins to Present
   HISB43Y Ontario History: The 19th Century
   HISB44F/S Canadian Religious Traditions
   HISB46Y Atlantic Canada
   HISC17F/S Old Huronia
   HISC18F/S Church-State Relations in Canada
   HISC19F/S Selected Topics in Canadian Religious History
   HISC45Y Canadian Social, Political and Historical Thought
   ECOB18Y North American Economic History
   ANTBS2Y Field Methods in Historical Archaeology

   Group 3: Modern Urban Society
   The nature of Canadian cities:
   GGBR06Y Urban Geography
   GGRG04F/S Urbanization and Residential Geography
   GGRG31F/S Development and Planning of Metropolitan Regions
   POLB66Y Urban Politics
   SOCC13Y Canadian Society
   SOCC15Y Mass Media and Communications
   SOCC23Y Population
   Problems generated by urbanization in Canada:
   ECOB45F/S Poverty and Income
   GGRG17Y Distribution
   RURG27Y Rural Geography
   SOCC27F/S Social Grass in Canadian Society
   The political-economic/socio-structural conditions of urban Canada:
   ECOA01Y Introduction to Economics
   ECOB07Y Macroeconomic Theory and Policy
   ECOB31F/S Economics of the Public Sector
   ECOB32F/S Economics of the Public Sector: Expenditures
   ECOB35F/S Public Decision Making
   ECOB37F/S Law and Economics
   ECOB62F/S International Economics: Trade Theory
   POLB50Y Canadian Government and Politics
   SOCC13Y Government and Politics in Ontario
   POLB51F/S Canadian Constitutional Law
   POLB53Y Public Policies in Canada
   POLB54F/S Intergovernmental Relations
   POLB60Y Public Administration
   POLB61F/S Canadian Foreign Policy
   POLC15F/S Topics in Canadian Government
   POLC16F/S Policy Development
   SOC71Y Canadian Political Ideas
   Group 4: Arts and Letters
   ENGB07Y Canadian Literature in English
   ENGB25F/S The Canadian Short Story
   ENGB27Y Canadian Poetry in English
   ENGB28F/S Canadian Fiction in English
   ENGB29F/S Drama in English Canada: 1920-1970
   FREL16Y The Arts in Canada: 1670-1960
   FREL16Y The Canadian Landscape: 1850-1950
   FREB16Y Language Practice
   FREL36F/S French-Canadian Novel to 1945
   FREL37F/S French-Canadian Novel since 1945
   FREL38F/S Theatre of French Canada
   FREL39F/S French Language in Canada
   FREL39F/S French Canadian Poetry

In addition, supervised reading courses are offered at the C-level in many disciplines. These may be applied toward degree requirements if they are concerned with appropriate Canadian subjects.

College Programme in Canadian Studies

Supervisor: T. McFeat (284-3252)

Students must select nine full-course equivalents as follows:

1 FREL06Y (or FREL07Y followed by FREL06Y)
2 One of:
   FREL36F/S French-Canadian Novel to 1945
   FREL37F/S French-Canadian Novel since 1945
   FREL38F/S Theatre of French Canada
   FREL39F/S French Language in Canada
   HISB04Y Introduction to Canadian History

3 One of the following:
   ANTB16S Cultures of Modern Canada
   POLB50Y Canadian Government and Politics
   ENGB07Y Canadian Literature in English
   SOCC13Y Canadian Society

4 Five and one-half further full-course equivalents (or six if ANTB16S is chosen from the preceding group) from the groups A, B, and C listed below. The selection must include at least one full-course equivalent from each of the following:
   ANTBS2Y Field Methods in Historical Archaeology
   GGBR06Y Urban Geography
   GGRG04F/S Urbanization and Residential Geography
   GGRG31F/S Development and Planning of Metropolitan Regions
   POLB66Y Urban Politics
   SOCC13Y Canadian Society
   SOCC15Y Mass Media and Communications
   SOCC23Y Population
   Problems generated by urbanization in Canada:
   ECOB45F/S Poverty and Income
   GGRG17Y Distribution
   RURG27Y Rural Geography
   SOCC27F/S Social Grass in Canadian Society
   The political-economic/socio-structural conditions of urban Canada:
   ECOA01Y Introduction to Economics
   ECOB07Y Macroeconomic Theory and Policy
   ECOB31F/S Economics of the Public Sector
   ECOB32F/S Economics of the Public Sector: Expenditures
   ECOB35F/S Public Decision Making
   ECOB37F/S Law and Economics
   ECOB62F/S International Economics: Trade Theory
   POLB50Y Canadian Government and Politics
   POLB51F/S Canadian Constitutional Law
   POLB53Y Public Policies in Canada
   POLB54F/S Intergovernmental Relations
   POLB60Y Public Administration
   POLB61F/S Canadian Foreign Policy
   POLC15F/S Topics in Canadian Government
   POLC16F/S Policy Development
   SOC71Y Canadian Political Ideas
   Group 4: Arts and Letters
   ENGB07Y Canadian Literature in English
   ENGB25F/S The Canadian Short Story
   ENGB27Y Canadian Poetry in English
   ENGB28F/S Canadian Fiction in English
   ENGB29F/S Drama in English Canada: 1920-1970
   FREL16Y The Arts in Canada: 1670-1960
   FREL16Y The Canadian Landscape: 1850-1950
   FREB16Y Language Practice
   FREL36F/S French-Canadian Novel to 1945
   FREL37F/S French-Canadian Novel since 1945
   FREL38F/S Theatre of French Canada
   FREL39F/S French Language in Canada
   FREL39F/S French Canadian Poetry

In addition, supervised reading courses are offered at the C-level in many disciplines. These may be applied toward degree requirements if they are concerned with appropriate Canadian subjects.
Chemistry

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

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

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

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

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

To Enter Complete St. George Series Scarborough Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type of Course</th>
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<tbody>
<tr>
<td>CHMA02</td>
<td>Chemistry 1</td>
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<tr>
<td>CHMB01</td>
<td>Inorganic</td>
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<tr>
<td>CHMB02</td>
<td>Analytical</td>
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<tr>
<td>CHMB03</td>
<td>Physical</td>
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<tr>
<td>CHMC03</td>
<td>Organic</td>
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<tr>
<td>JBCB35</td>
<td>Biochemistry</td>
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<tr>
<td>CHMA03</td>
<td>Chemistry 2</td>
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<tr>
<td>CHMB03</td>
<td>Inorganic</td>
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<td>CHMC03</td>
<td>Organic</td>
</tr>
<tr>
<td>JBCB35</td>
<td>Biochemistry</td>
</tr>
</tbody>
</table>

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA03 (A02Y) early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA02, MATA25 or MATA26 and PHYA03 (PHYA02).

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

Specialist Programme in Chemistry

Supervisor: R.A. McClelland (284-3318)

This is the most general of the Specialist Programmes and provides the student with a firm basis in each of the chemistry sub-disciplines. Students should complete the following fifteen required courses:

1. First year:
   - CHMA02 General Chemistry
   - MATA25 Calculus
   - MATA55 Calculus with Analysis
   - PHYA03 Physics for the Physical and Life Sciences
   - (PHYA02Y)

2. Second and Third years:
   - CHMB01 Inorganic Chemistry I
   - CHMB02 Analytical Chemistry
   - CHMB03 Physical Chemistry
   - CHMB05 Organic Chemistry
   - CHMC01 Inorganic Chemistry II
   - CHMC02 Physical Chemistry II
   - CHMC03 Organic Chemistry II
   - MATB14F Technique and Calculus of Several Variables I
   - MATB42S Technique of the Calculus of Several Variables II
   - or MATB50F* Analysis I
   - MATB55S* Analysis II

   * Students should note that if they are going to elect MATB50S and MATB55S they must take MATF10 and MATA45S among their first five courses and MATA4SS among their first ten courses.

3. In addition, four more full-course equivalents in Chemistry, including at least three full-course equivalents selected from the CHMAC0 - 50 series and the 400 level courses at the St. George Campus. At least one full-course equivalent must be taken at St. George from the 400 level, CHM135H (Crystal Chemistry) and CHM132H (Macromolecular Chemistry) or CHM134Y (Instrumental Analytical Chemistry).
### Specialist Programme in Chemistry and Biochemistry

**Supervisor:** A.J. Kresge (284-3336)

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

Students should complete the following fifteen courses:

1. **First year:**
   - CHMA02Y General Chemistry
   - BIOA02Y Introductory Biology
   - MATA02Y Calculus
   - or MATA55Y Calculus with Analysis
   - PHYA03Y Physics for the Physical and Life Sciences

2. **Second and Third years:**
   - CHMB01Y Inorganic Chemistry I
   - CHMB02Y Analytical Chemistry I
   - CHMB03Y Physical Chemistry I
   - CHMB05Y Organic Chemistry I
   - JBCS35Y Introductory Biochemistry
   - JBCS36H Laboratory in Biochemistry
   - CHMC01Y Inorganic Chemistry II
   - or CHMC02Y Physical Chemistry II
   - CHMC03Y Organic Chemistry II
   - MATB41F Techniques of the Calculus of Several Variables I
   - or MATB50F Analysis I
   - MATB42S Techniques of the Calculus of Several Variables II
   - or MATB50F Analysis I
   - and MATB55S Analysis II

3. In addition, CHMA475 (St. George) or BOHA4245 (St. George), one additional BCH400 series half-course (St. George) one and one-half additional CHM full-course equivalents selected from the C-level or 300 - 400 series (St. George), or 400 series BCH courses.

**Note:** In addition to the courses noted above an additional Biology course is recommended. BIOB195, BIOB175, BIOB02Y, (BIOB141), BIOB06Y are particularly appropriate for this programme.

### Specialist Programme in Chemical Physics

**Supervisor:** T.B.A.

This programme offers students interested in both Chemistry and Physics the opportunity to combine their studies in the Specialist Programme. For the first two years the course of studies also satisfies the Chemistry Specialist Programme requirements. Students should complete the following fifteen courses. They include two alternative mathematics sequences. One sequence provides a rigorous mathematical development; the alternative sequence emphasizes techniques rather than rigorous theory. Students starting in the MATA26Y sequence are urged to include MATA40F and MATA55S at some stage in their programme.

1. **First year:**
   - CHMA02Y General Chemistry
   - MATB26Y Calculus
   - or MATA27Y Techniques of Calculus
   - or MATA22Y Introduction to Calculus
   - or MATA55Y Calculus with Analysis
   - PHYA03Y Physics for the Physical and Life Sciences

2. **Second and Third years:**
   - CHMB01Y Inorganic Chemistry I
   - CHMB02Y Analytical Chemistry I
   - CHMB03Y Physical Chemistry I
   - CHMB05Y Organic Chemistry I
   - JBCS35Y Introductory Biochemistry
   - JBCS36H Laboratory in Biochemistry
   - CHMC01Y Inorganic Chemistry II
   - or CHMC02Y Physical Chemistry II
   - CHMC03Y Organic Chemistry II
   - MATB41F Techniques of the Calculus of Several Variables I
   - or MATB50F Analysis I
   - and MATB42S Techniques of the Calculus of Several Variables II
   - or MATB50F Analysis I
   - and MATB55S Analysis II
   - CHMC02Y Physical Chemistry II
   - PHYB01S Electricity and Magnetism I
   - PHYB03F Introductory Electronics
   - PHYB04F Waves
   - PHYB08H Intermediate Physics Laboratory
   - MATC51F Differential Equations I
   - and JPMC42S Advanced Classical Mechanics

3. **Fourth year:** Four full-course equivalents must be taken, including a CHM400 series course on the St. George Campus, at least one full-course equivalent from PHYC01F, PHYC01Y, PHYC04S, PHYC05Y, PHYC05F or a 400 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

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

### Major Programme in Chemistry

**Supervisor:** K.A. Henderson (284-3133)

This is the most general Major Programme offered. With its wide selection of options, it offers the possibility of obtaining an introduction to all of the sub-disciplines of chemistry.

Students should complete the following eight courses:

1. **First year:**
   - CHMA02Y General Chemistry
   - MATA26Y Calculus
   - or MATA27Y Techniques of Calculus
   - or MATA22Y Introduction to Calculus
   - or MATA55Y Calculus with Analysis
   - PHYA03Y Physics for the Physical and Life Sciences

2. **Second and Third years:**
   - CHMB01Y Inorganic Chemistry I
   - CHMB02Y Analytical Chemistry I
   - CHMB03Y Physical Chemistry I
   - CHMB05Y Organic Chemistry I
   - JBCS35Y Introductory Biochemistry
   - JBCS36H Laboratory in Biochemistry
   - CHMC01Y Inorganic Chemistry II
   - or CHMC02Y Physical Chemistry II
   - CHMC03Y Organic Chemistry II
   - MATB41F Techniques of the Calculus of Several Variables I
   - or MATB50F Analysis I
   - and MATB42S Techniques of the Calculus of Several Variables II
   - or MATB50F Analysis I
   - and MATB55S Analysis II
   - CHMC02Y Physical Chemistry II
   - PHYB01S Electricity and Magnetism I
   - PHYB03F Introductory Electronics
   - PHYB04F Waves
   - PHYB08H Intermediate Physics Laboratory
   - MATC51F Differential Equations I

3. **Fourth year:** Four full-course equivalents must be taken, including a CHM400 series course on the St. George Campus, at least one full-course equivalent from PHYC01F, PHYC01Y, PHYC04S, PHYC05Y, PHYC05F or a 400 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

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

### Major Programme in Biochemistry

**Supervisor:** K.A. Henderson

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

Students should complete the following eight courses:

1. **First year:**
   - CHMA02Y General Chemistry
   - MATA26Y Calculus
   - or MATA27Y Techniques of Calculus
   - or MATA22Y Introduction to Calculus
   - or MATA55Y Calculus with Analysis
   - PHYA03Y Physics for the Physical and Life Sciences

2. **Second and Third years:**
   - CHMB01Y Inorganic Chemistry I
   - CHMB02Y Analytical Chemistry I
   - CHMB03Y Physical Chemistry I
   - CHMB05Y Organic Chemistry I
   - JBCS35Y Introductory Biochemistry
   - JBCS36H Laboratory in Biochemistry
   - CHMC01Y Inorganic Chemistry II
   - or CHMC02Y Physical Chemistry II
   - CHMC03Y Organic Chemistry II
   - MATB41F Techniques of the Calculus of Several Variables I
   - or MATB50F Analysis I
   - and MATB42S Techniques of the Calculus of Several Variables II
   - or MATB50F Analysis I
   - and MATB55S Analysis II
   - CHMC02Y Physical Chemistry II
   - PHYB01S Electricity and Magnetism I
   - PHYB03F Introductory Electronics
   - PHYB04F Waves
   - PHYB08H Intermediate Physics Laboratory
   - MATC51F Differential Equations I

3. **Fourth year:** Four full-course equivalents must be taken, including a CHM400 series course on the St. George Campus, at least one full-course equivalent from PHYC01F, PHYC01Y, PHYC04S, PHYC05Y, PHYC05F or a 400 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

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

### Major Programme in Chemical Physics

**Supervisor:** T.B.A.

This programme offers students interested in both Chemistry and Physics the opportunity to combine their studies in a single programme. For the first two years the course of studies also satisfies the Chemistry Specialist Programme requirements. Students should complete the following fifteen courses. They include two alternative mathematics sequences. One sequence provides a rigorous mathematical development; the alternative sequence emphasizes techniques rather than rigorous theory. Students starting in the MATA26Y sequence are urged to include MATA40F and MATA55S at some stage in their programme.

1. **First year:**
   - CHMA02Y General Chemistry
   - MATB26Y Calculus
   - or MATA27Y Techniques of Calculus
   - or MATA22Y Introduction to Calculus
   - or MATA55Y Calculus with Analysis
   - PHYA03Y Physics for the Physical and Life Sciences

2. **Second and Third years:**
   - CHMB01Y Inorganic Chemistry I
   - CHMB02Y Analytical Chemistry I
   - CHMB03Y Physical Chemistry I
   - CHMB05Y Organic Chemistry I
   - JBCS35Y Introductory Biochemistry
   - JBCS36H Laboratory in Biochemistry
   - CHMC01Y Inorganic Chemistry II
   - or CHMC02Y Physical Chemistry II
   - CHMC03Y Organic Chemistry II
   - MATB41F Techniques of the Calculus of Several Variables I
   - or MATB50F Analysis I
   - and MATB42S Techniques of the Calculus of Several Variables II
   - or MATB50F Analysis I
   - and MATB55S Analysis II
   - CHMC02Y Physical Chemistry II
   - PHYB01S Electricity and Magnetism I
   - PHYB03F Introductory Electronics
   - PHYB04F Waves
   - PHYB08H Intermediate Physics Laboratory
   - MATC51F Differential Equations I

3. **Fourth year:** Four full-course equivalents must be taken, including a CHM400 series course on the St. George Campus, at least one full-course equivalent from PHYC01F, PHYC01Y, PHYC04S, PHYC05Y, PHYC05F or a 400 series course on the St. George Campus and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

Students are urged to consult with the supervisor early in the Programme.
develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, descriptive topics such as introductory organic chemistry are used to round out the course. Two lectures per week and one four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre.
Prerequisite: Grade 13 Chemistry (or Grade 12 Chemistry and permission of instructor); Grade 13 Functions and Relations Corequisite: MAT22 or MAT26 or MAT27 or MAT45
Session: Winter Day

CHMB01Y Inorganic Chemistry I
Atomic and molecular structure, including energy levels, bonding, electronegativity, lattice energies, heats of formation and hydration. Oxidation state diagrams. Chemistry of hydrides, halogens and selected topics in main group elements.
The further development of ideas about covalent bonding introduced in CHMA02Y.
The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in compound formation.
The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements.
Two lectures and one additional period per week to be used for supplementary or remedial work as required.
Prerequisite: CHMA02
Session: Winter Day
R.H. Morris

CHMB02Y Analytical Chemistry
Introduction to qualitative and quantitative analysis, including gravimetric and volumetric analysis, electrochemical and spectroscopic methods of analysis, separation techniques.
To introduce the principles and methods of chemical analysis and to provide practical experience in the techniques employed in a chemistry laboratory.
The course consists of three main divisions: qualitative inorganic analysis by wet chemical methods, classical quantitative analysis and modern instrumental quantitative analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques. One hour of lectures and six hours of laboratory per week.
Exclusion: CHMB08
Prerequisite: CHMA02
Other recommended courses: CHMB01
Session: Winter Day
K.A. Henderson

CHMB03Y Physical Chemistry I
Introduction to the kinetic theory of gases, quantum mechanics, theories of chemical kinetics and the laws and applications of thermodynamics.
The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half ends with a treatment of chemical kinetics. In the second half of the course we resort to a thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications to a wide variety of contemporary problems including spontaneous processes, chemical equilibrium and the chemical equilibrium and the chemical equilibria, etc. are emphasized. The text is "Physical Chemistry" by P.W. Atkins. Three lectures a week and occasional tutorial.
Exclusion: PHYB09
Prerequisite: CHMA02; MAT26 or MAT45; PHYA03(A02)
Corequisite: MAT41 and MAT42 are strongly recommended but not required. See CHMB02 Physical Chemistry II, however.
Session: Winter Day

CHMB04Y Organic Chemistry I
The chemistry of the principal functional groups encountered in aliphatic and aromatic compounds, interpreted in terms of reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given.
The fundamentals of organic chemistry, including aliphatic and aromatic chemistry are introduced to the chemistry of biologically important molecules such as proteins and carbohydrates.
Two lectures per week and a four-hour laboratory every second week. A tutor will be available for consultation in the Chemistry Learning and Resource Centre.
Prerequisite: CHMA02
Session: Winter Day
R. McClelland

JBCB35Y Introductory Biochemistry
An introductory course for students interested in the biomedicai sciences, designed to introduce students to a broad range of biochemical topics. Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism; structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed.
Two one-hour lectures per week. The text used is "Biochemistry: The Molecular Basis of Cell Structure and Function" by A.L. Lehninger, Worth Publishers Inc.
Prerequisite: BI0A03; CHMB05
Session: Winter Day
J. Gurd

JBCB36H Laboratory in Biochemistry
An introductory laboratory course designed to introduce students to basic experimental techniques used in biochemical research.
The course will introduce students to practical and theoretical aspects of techniques used in biochemical research, including: spectrophotometry; chromatography; radioisotopes; electrophoresis; protein fractionation; etc.
Three hours of laboratory plus one hour of lecture each week. No text will be required but it is suggested that students obtain a copy of Biochemistry by A.L. Lehninger.
Prerequisite: BI0A03; CHMB05
Corequisite: JBCB35
Session: Winter Day
J. Gurd

CHMC01Y Inorganic Chemistry II
A study of transition metal chemistry including energy level diagrams, valence bond, crystal field and molecular orbital theories of bonding; spectra of transition metal complexes; structure and coordination numbers; isomerism; inorganic reaction kinetics and organometallic chemistry.
The objective of this course is to understand the structure, bonding, spectra and reactions of transition metal complexes. Two hours of lecture per week; seven hours of laboratory per week to be taken in either the Fall or Spring term. The required text is "Inorganic Chemistry" 2nd edition by J.E. Huheey.
Prerequisite: CHMB01, CHMB02 (or CHMB04)
Corequisite: CHMB08 (if only CHMB04 obtained)
Session: Lectures: Winter Day
Laboratory: Fall Term or Spring Term - One Day
A. Walker

CHMC02Y Physical Chemistry II
Quantum mechanics and applications to thermodynamics. Statistical thermodynamics, theory of chemical kinetics and photochemistry. The laboratory associated with this course provides much of this physical theory and introduces advanced experimental techniques.
The first half of the course emphasizes quantum chemistry and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules are then examined through spectroscopic systems. Finally, the course introduces advanced experimental techniques.
Lectures, tutorial and laboratory.
Prerequisite: CHMB03; MAT41 and MAT42, or MAT50 and MAT55
Session: Lectures: Winter Day
Laboratory: Spring Term - One Day

CHMC03Y Organic Chemistry II
An in-depth treatment of organic reactions and synthesis, stereochemistry and conformational analysis, spectroscopy of organic molecules and reaction mechanisms, and an introduction to aromaticity, photochemistry, free radicals, polymers, organometallic compounds, and the chemistry of naturally occurring molecules such as terpenes, steroids and carbohydrates. This course provides further experience in organic chemistry to students who have completed one course in the subject. The laboratory experiments are designed to complement the topics covered in lectures, with an emphasis on more advanced techniques and the use of modern physical and synthetic methods.
Two lectures and one four-hour laboratory every week.
Prerequisite: CHMB05
Session: Winter Day
CHMC45Y Library Thesis
A report on a selected current topic in chemistry based on literature research and carried out under the direction of one of the chemistry staff. Approximately 260 hours of work are expected.

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

Exclusion: CHMC45
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Programs.

Session: Summer Day, Winter Day Members of the Chemistry Faculty

CHMC46Y Introduction to Research Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 260 hours of effort.

The objective is to develop familiarity with some of the methods of modern research. Particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research.

Prerequisite: Permission of instructor
Corequisite: One of the advanced laboratory courses at St. George (CHMC43F or CHMC44F) (except for students undertaking a project in physical chemistry).
Other Recommended Courses: Normally only for students following one of the Chemistry Programs.

Session: Summer Day, Winter Day Members of the Chemistry Faculty

CHMC47F/S/H Library Thesis Similar to CHMC45 but representing 130 hours of work.

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

Exclusion: CHMC45
Prerequisite: Permission of instructor
Other Recommended Courses: Normally only for individuals who have completed fifteen full-course equivalents and including at least two C-level chemistry courses, and who are pursuing one of the Chemistry Programs.

Session: Summer Day, Winter Day Members of the Chemistry Faculty

CHMC50S Special Topics in Physical Chemistry
A selection of topics in physical chemistry in which recent developments are emphasized. The content of the course varies from year to year. Experiences of topics recently treated include quantum chemistry and theories of elementary chemical reactions. The course structure is two lectures per week.

Corequisite: CHMC22
Session: Winter Day

CHMC51S Special Topics in Synthetic Organic Chemistry
A selection of topics in synthetic organic chemistry. A survey of modern synthetic methods will be emphasized, and some application to the synthesis of particular systems will be included.

The course structure is two lectures per week.

Corequisite: CHMC23
Session: Winter Day R.A. McClelland

CHMC52S Special Topics in Organometallic Chemistry and Catalysis
A selection of topics in organometallic chemistry and catalysis. Recent developments are emphasized. It is intended to offer this course every two years, alternating with CHMC48S. Students should consult with the faculty members involved as to the specific areas to be covered in a given year.

This course provides an introduction to current research in organometallic chemistry and catalysis. The emphasis will be on inorganic chemistry, but a good background in organic and physical chemistry is useful. The course structure is two lectures per week.

Prerequisite: CHMC21
Session: Winter Day

Classical Studies

Courses not offered in 1982-83

CHMB05Y Organic Chemistry I
Exclusion: CHMB05
Prerequisite: CHMA02

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

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

CHMC48S Special Topics in Inorganic Chemistry
Corequisite: CHMC01

CHMC49S Special Topics in Organic Chemistry
Corequisite: CHMC03

Major Programme in Classical Civilization
Supervisor: J. Corbett (294-3182)

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

1. CLA01Y Classical Civilization
2. HUMA11Y Greek and Roman Mythology
3. CLA02Y Greek and Roman Epic
4. One of GRH101Y Greek History from the Bronze Age to the Death of Alexander
   GRH102Y Greek and Roman History from the Death of Alexander to the Gracchi
   GRH103Y Roman History from the Gracchi to Nero
5. One of GRH105Y - 29Y
6. Three additional full-course equivalents from:
Major Programme in Classical Studies
Supervisor: J. Warden (284-31144) [Greek]; I. R. McDonald (284-31832) [Latin]

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

Classical Studies (Latin):
1 CLA01Y Classical Civilization
2 Three full-course equivalents in Latin
3 GRHB02Y Roman History from the Graeco-Roman World
4 Two further full-course equivalents to be selected in consultation with the Supervisor from:
   - LAT
   - GRHB02Y, B24F/S, B28Y, B29Y;
   - HUMA1Y, B22F/S, B24F/S, B25F/S, B35Y

Classical Studies (Greek):
1 CLA01Y Classical Civilization
2 Three full-course equivalents in Greek*
3 GRHB02Y Greek History from the Bronze Age to the Death of Socrates
4 Two further full-course equivalents to be selected in consultation with the Supervisor from:
   - GRK
   - CLA01Y, B02Y;
   - FARA10F/S, B04F, B05S;
   - GRB24F/S, B25Y, B26Y;
   - PHILB04F, B41S, B42F, B43S
   * Excluding GRKB1Y (and B20Y)

Students who wish to include Latin or Greek as a component in the Language and Literature Specialist Programme must complete seven full-course equivalents as follows:
1 Four full-course equivalents in Latin or four full-course equivalents in Greek
2 CLA01Y or CLA02Y
3 Two further full-course equivalents from courses in CLA, GRK, HUM, LAT to be selected in consultation with the Supervisor.

See also the Specialist Programme in Language and Literature.

CLA01Y Classical Civilization
An introduction to the Graeco-Roman World: the achievements of the Greeks and Romans in literature, philosophy, science and government. These achievements will be set in an historical framework to enable the evolution of ideas to be traced. The course will not merely be a survey course. Provision has been made as well for study in greater depth in carefully selected areas, with readings, in translation, from the classical authors.

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

CLA02Y Greek and Roman Epic
The epic genre in the classical world: its genesis in myth and history; its cultural and artistic determinants; its place in the history of ideas and in the growth of the Western literary tradition. Close reading of Homer's Iliad and Odyssey, Virgil's Aeneid, Lucan's Pharsalia (in translation); reference to other works and their contribution to the development of the genre.

All study of Western Literature starts with Homer. The aim of this course is to make you familiar with the texts of Homer and his successors in the epic genre, so that you may learn to appreciate them for themselves within their own cultural and historical context and begin to understand the nature of their influence on later literature. If you wish to do any reading in advance, you might start with some of the following:
   - Homer, The Iliad (transl. R. Lattimore)
   - Homer, The Odyssey (transl. R. Lattimore)
   - Homer, The Iliad (transl. R. Lattimore)
   - Homer, The Odyssey (transl. R. Lattimore)
   - Homer, The Odyssey (transl. R. Lattimore)
   - Homer, The Odyssey (transl. R. Lattimore)

Classes will be an informal mixture of lectures and seminars.
Session: Winter Evening
I. R. McDonald

CLA02Y Christianity in the Graeco-Roman World
An examination of the relationship between Christianity with its Jewish origins and the Roman Empire.

Some of the topics discussed will be a history of the relationship between the church and the state, persecution under the emperors, rivalry religions, the development of Christian art and architecture, and the influence of Greek philoso-

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

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

Topics will include: the Bronze Age of Greece and Minoan Crete, with some consideration of why and how those cultures rose and fell; the cultural and artistic "Renaissance" of the Greek world; political developments, with special reference to the nature and development of Athenian Democracy and the strange society of Sparta; the Athenian Empire and its relationship to Athenian Democracy, the rise of Macedonia and the conquests of Alexander.

To consider how the Greeks viewed their own history, we shall study the Persian Wars as seen through the eyes of Herodotus, and the Peloponnesian War as seen through Thucydides; and at all times we shall endeavour to pay the Greeks the compliment of trying to see them as they really were and not as we imagine them.
Session: Winter Day
A. Boddington

GRKB02Y Greek and Roman History from the Death of Alexander to the Graeco-Roman World
A study of the emergence and evolution of the Hellenistic Monarchies after the death of Alexander, the development of Rome as a "World Power", and the interaction of the Greek and Roman Worlds.

This course introduces the student to an important period of Classical History in which the Mediterranean world evolved from one of individual city states to the single "world empire" which was the cradle of some systems characteristic of the West, especially Christianity. One two-hour lecture, and one one-hour tutorial per week. All the tutorials will be led by the lecturer. The lectures will give the necessary background information and some analysis. Questions and discussions will be welcomed in lectures as well as tutorials. Students will be encouraged to consult with me about their reading and essays.
Note: A detailed Course Outline and Bibliography are available on request.
Session: Winter Day
J. Corbett

GRKB02Y Studies in Roman History: Pompeii
A study of Pompeii as a typical Graeco-Roman city, on the basis of primary source materials, literary and archaeological.

The city is central to western society; our urban institutions have their origins in the European past. This course will introduce the student of urban society not only to the city in the Graeco-Roman world but also to the comparative study of urban institutions in pre-industrial societies the world over, both past and present. It is intended for students who have some background (not necessarily formal) in urban studies; it does not require a knowledge of ancient history. Pompeii is a typical small Graeco-Roman city, but it is also uniquely well preserved for our examination. The structure of the course will be determined by the students. A considerable degree of personal initiative will be expected.
Session: Winter Day
J. Corbett

GRKA01Y Introductory Greek
The bases of the language, with an emphasis on reading.
This course is for students who wish to acquire a basic reading knowledge of ancient Greek.
Four hours a week. Text: Reading Greek (JACT Cambridge, 1978).
Session: Winter Day
J. R. Warden

GRKA02F Introduction to Greek Authors
A rapid reading of simple Greek texts combined with a consolidation of grammar.
This course is intended to help students review classical Greek grammar in preparation for reading texts.
Prerequisite: Grade XIII Greek or GRKA01
Session: Winter Day
J. R. Warden

GRKB01S Plato: Apology
A study of Plato's account of Socrates' defense against the charges of religious non-conformity and of corrupting the young. The text will be read in Greek. In addition to the reading of...
the text, the political, legal, and social situation in Athens at the time of the trial will be considered. The course will include exercises to assist the student in further study of the Greek language. Three one-hour meetings weekly in which students will be expected to participate actively by translating and discussing passages of the text. Prerequisite: GRK110
Session: Winter Day
A. Bollington

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

GRKB22Y Images of Modern Greece: 1936 to the Present
An examination of the social, political, and cultural development of modern Greece in the last quarter-century. This chronological study of one of the most vital moments in modern Greek history will focus first on the time of the Metaxas dictatorship, World War II, and the civil war, then on the "boom" years from 1960 to 1967, and lastly on the period from the establishment of the military junta to the present. Analysis of social, economic, and political phenomena will be complemented by a detailed study of cultural expression in such diverse fields as literature, music, theatre, cinema and folklore. Our field of enquiry will include selections from the works of poets, novelists, and dramatists such as Sefteris, Elitis, Vrettakos, Tachtis and Kehadis, of Karolis Koun and the Art Theatre, of seminal composers Theodorakis and Hadzicakis, and their heirs; and of the folklorist Domna Samiou. The final stage of the course will stress developments of the last decade. Lectures and seminar discussion. Lectures will be given in modern Greek. Prerequisite: GRKB10
Session: Winter Day
G. Papadatos

GRKB30F-B34F
GRKB35S-B35S
GRKB40Y Supervised Reading
Reading of texts in Greek chosen by consultation between students and faculty.

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

LATB01Y Introductory Latin
An introduction to the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature. The course aims to bring the student with no previous knowledge of Latin to a sound basic reading level in prose and poetry. Some time will be given to helping him see the language in its cultural and historical context, and the impact of Latin on English. Classes are designed to introduce fundamentals of vocabulary, grammar, and syntax, but the routine will be varied occasionally to allow for lectures, discussions, and slides to increase awareness of the cultural milieu.

The text is F. L. Moreland and R. M. Fleischer, Latin, An Introductory Course. Session: Winter Day I.R. McDonald

LATB10F Introduction to Latin Authors Rapid reading of simple Latin texts, both prose and verse, together with a survey of Roman literature and a consolidation of grammar. This course serves as an introduction to university-level Latin studies for students with Grade XIII Latin as a stepping stone to the reading of Latin authors for those who have begun the study of Latin in the College. Texts to be read will be selected from a wide range of styles and periods to give the student a good general view of the scope and variety of Latin literature. Prerequisite: LATB01 or Grade 13 Latin Session: Winter Day J. Corbett

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

The material studied will be primarily the love poetry of Catullus but some of the satirical works and one of the "long poems" will also be examined. After some introductory lectures most of the classes will be devoted to translating and studying individual poems in the light of critical literature. Students will be expected to participate in these classes. The text used will be the edition of Kenneth Quinn (Macmillan, 1970). Prerequisite: LATB10
Session: Winter Day I.R. McDonald

LATB20F Latin Authors II
Reading and analysis of Latin Texts, prose or verse, with emphasis on appreciation of language and style, and the writer's contribution to the development of the genre. Texts to be used will be selected annually in consultation with class members. Prerequisite: LATB01S Session: Winter Day I.R. McDonald

LATB30F-C34F
LATB31S
LATB40Y Supervised Reading
Students who wish to take Latin Supervised Reading courses should enrol in any of the above courses (if not already approved). They should then contact the co-ordinator and discuss with him what they want to read and with whom. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two-hour period; exact arrangements will depend on the nature of the text and level of ability of the student. The purpose of these sessions is to sort any problems of comprehension, and to discuss literary qualities and cultural context of the work being read.

Prerequisite: LATB01 (or LATB02) Session: Winter Day Co-ordinator: I.R. McDonald

LATC01F-C02S Independent Studies
These courses are designed to widen students' knowledge of Latin literature beyond those works and authors which have been studied in earlier courses.

A student will be expected to read considerably more than is required in the Supervised Reading courses. The reading may be confined to one author or grouped around a topic or genre. A student who registers for both CO1F and CO2S may be permitted to present a major essay, on a topic approved by the faculty in Classics, as the work required for CO2S. Students will meet regularly throughout the term with a member of the faculty.

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

Courses Not Offered in 1982-83

CLAB02Y Greek and Roman Tragedy
CLAB21Y Greek and Roman Religion
Prerequisite: HUMA 11 or CLA01

GRHB03Y Roman History from the Gracchi to Nero

GRHB25Y Ancient Historiography
Grades in Greek History (c. 800-300 B.C.)
Prerequisite: GRHB01, and any related GRH, CLA or HUM course.

GRHB26Y Studies in Greek History II (c. 800-300 B.C.)
Prerequisite: GRHB01, and any related GRH, CLA or HUM course.

GRHB28Y Studies in Roman History
Grades in Roman Britain
Prerequisite: GRHB03 or any other GRH course
Commerce

Assistant Chairman: A. Starwina

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

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

The college does not offer the Bachelor of Commerce (B.Com.) degree. Students who wish to obtain the B.Com. must either enter or transfer to another college of the University (at the St. George or Erindale campus). Because of differences in course and degree requirements, such transfers should take place as early as possible in a student's career. Since many Commerce courses at St. George Campus are subject to limits on enrolment, scarborough College students are urged that they will be able to take Commerce courses at that campus where a comparable course is not available at Scarborough.

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

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

Prerequisites: Prerequisites will be strictly enforced for all Commerce courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses. In view of these restrictions, pre-examination and course substitution options available in the Commerce area, students are encouraged to seek the advice of the Supervisor.

Specialist Programme in Commerce and Economics

Supervisor: A. Starwina (284-3115)

Note: Beginning in 1983-84, registration in this Programme will be limited. Students will be selected to enter the second year of the Programme, and selection will be based on grades in some or all of the required A-level courses and on an overall Grade Point Average. For more specific information, students should refer to the Corrigenda to this Calendar to be published in May 1982. The Specialist Programme in Commerce and Economics is designed to provide the student with a more specialized career in commerce, industry or government or for further study in such fields as accounting, economics, law and management.

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

1. A six-course equivalent in Commerce including COMA01, COMB01, JCEB07, JCEB72, JCEB73, JCEO02. (See Note A)
2. Five courses taken in Economics including ECOA01, ECOB03, ECOB07 and ECOB11;
3. MAT227 or (MAT206 and MATB41/42) or (MAT225 and MATB260/265); (see Note B)
4. One full-course equivalent in Computer Science (CSCA56 and CSCA69) or (CSCA58 and CSCA58);
5. Four additional full-course equivalents from courses other than COM, ECO and JCE.

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

NOTE B: Students who have not taken any of MAT222A/265 (or earlier) prior to the 1981-82 Academic Session must be required to take MAT222 regardless of when they entered the programme.

Major Programme in Commerce

Supervisor: A. Starwina (284-3115)

Note: Beginning in 1983-84, registration in this Programme will be limited. Students will be selected to enter the second year of the Programme, and selection will be based on grades in some or all of the required A-level courses and on an overall Grade Point Average. For more specific information, students should refer to the Corrigenda to this Calendar to be published in May 1982. The Major Programme in Commerce is designed to provide the student with an introduction to the field that can be used as the basis for graduate or professional studies as well as to complement undergraduate studies in related areas.

The Programme requires completion of eight full courses including:
1. Five course equivalents in COM or JCE courses including COMA01 and COMB01 (see Note C)
2. Two full-course equivalents in ECO courses including ECOA01
3. JCEB72 Note C

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

Careers in Accountancy

The College offers a significant number of courses which have been recognised as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Registered Industrial Accountants.

COMA01Y Financial Accounting

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

The course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying those techniques. Class size is limited to 80 per section.

Session: Winter Day, Winter Evening, Summer Evening

A. Starwina

COMB01Y Management Accounting

An introduction to cost accounting with emphasis on the use of accounting information in managerial decision making. Topics include types of cost accounting systems, patterns of cost behaviour, problems of cost determination, allocation, budgeting and control. Class size is limited to 80 per section.

Prerequisite: COMA01 and ECOA01

Session: Winter Day, Winter Evening, Summer Evening

H. Babik

JCSB27Y Organizational Behaviour

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

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

Session: Winter Day, Winter Evening, Summer Evening

JCB54S Industrial Relations

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

Prerequisite: One previous course in Economics

Session: Winter Evening

JCEB72F Analysis for Decision-Making I

A course in the analysis formulation and solving of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed.

Prerequisite: CSCS05 or CSCS45, MAT400 or MAT222 or MAT227 or MAT420 or MSCS03 or MSCS07

Session: Winter Day

JCEB73S Analysis for Decision-Making II

A continuation of JCEB72F with emphasis on deterministic linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing.

Prerequisite: JCEB72

Session: Winter Day
COMC01Y Intermediate Financial Accounting
An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation. Limited enrolment: 60.
The course builds extensively on the material in COMA01 and, to a lesser extent, COMB01. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course.
Prerequisite: COMB01
Session: Winter Day, Winter Evening
H. Babiai

JCCEC02Y Corporation Finance
An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrolment: 60.
Prerequisite: COMB01; EC0B03; ECOB11
Session: Winter Day, Winter Evening

COMC04F Principles of Marketing
Basic concepts and theory of modern marketing management. The course is designed to provide students with a conceptual framework suitable for the analysis of problems facing marketing managers.
The focus is on the basic theories used in understanding and predicting the nature of the marketplace and the development of marketing strategies appropriate for the market. The subjects include theories of consumer behaviour, the concepts of segmentation and positioning, the role of market research, and the basic elements of the marketing mix - product policy, price policy, promotion policy, and marketing channels. Instruction involves lectures, discussions, and assignments. Limited enrolment: 60.
Exclusion: (COMC03)
Prerequisite: COMB01; ECOB11 is recommended
Session: Winter Day

COMC05S Introduction To Marketing Management
A pragmatic case and readings oriented approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations. Limited enrolment: 60.
Exclusion: (COMC03)
Prerequisite: COMC04; ECOB11 is recommended
Session: Winter Day

COMC06Y Product Management
This course is designed to give students a focus on the marketing problems associated with the introduction of a new product or product line in the consumer packaged goods industry. The tactical and operational problems associated with the design of new offerings and management of current offerings within the framework of an overall corporate marketing strategy provide the theme of the course. Limited enrolment: 40.
Prerequisite: COMC05
Session: Winter Day

COMC07S Market Research
This course is designed to introduce students to a number of experimental and survey techniques being used in market research. Both theoretical and technical considerations will be stressed. Limited enrolment: 40.
Prerequisite: COMC05, ECOB11
Session: Winter Day

COMC10S Management Control Systems
The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioral implications. Limited enrolment: 60.
Prerequisite: COMB01, JCSV27
Session: Winter Evening

COMC15Y Income Tax
An examination of the broad principles of federal income tax in Canada and of the detailed provisions involved in the taxation of business enterprises. Limited enrolment: 60.
Prerequisite: Completion of at least ten courses including COMA01 and ECOA01
Session: Winter Evening

COMC22F Organizational Design
This course reviews design alternatives, involving changes in strategies, structures, environments and people for both business and non-business complex organizations. Limited enrolment: 60.
Prerequisite: JCSV27
Session: Winter Day

COMC26Y Comparative Organizational Behaviour
This course studies the impact on organizational strategies of different environments, discussing among other questions, differences between nations. The course may also deal with societal attitudes in reference to quality of work life. Limited enrolment: 60.
Prerequisite: JCSV27
Session: Winter Day

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

JCCEC05F Advanced Corporate Finance
This course focuses on major issues in corporate financial management, with reference to company valuation for financial decisions and capital structure issues. Limited enrolment: 60.
Prerequisite: JCCEC02
Session: Winter Day

JCCEC07F Investments
This course reviews major investment problems, in particular the factors affecting term structure and risk structure of yields on financial claims. Limited enrolment: 60.
Prerequisite: JCCEC02
Session: Winter Day

COMC50F Auditing
An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor. Limited enrolment: 60.
Prerequisite: COMC01
Session: Winter Evening
Computer Science

Specialist Programme in Computer Science for Data Management
Supervisor: W. Enright (284-3352)
NOTE Registration in this Programme is limited. Twenty students will be admitted annually to the Second Year of the Programme. Selection will be based on grades in first year courses in Computer Science and Mathematics. There are at least one and one-half courses required for the Specialist Programme in Computer Science. Note that the courses need not be taken in exactly the indicated order, but if an alternate ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided.

First year:
CSCA55F, CSCA68S, MATA26/MATA27/MATA55, MATA40F, MATA45S
Second year:
CSCA68F, CSCB73F, CSCB28S, (MATA41F and MATA42S) or (MATA505F and MATA55S)
Third year:
CSCC77F, JMC51S, MATA54F, STAB55F, STAB57S, MATC51F or MATC60F or MATA45S

Third or fourth year:
Two full-course equivalents to be chosen from the following options:
(Note that only CSCC44F and CSCC64S are available at Scarborouh, the remaining courses must be completed at the St. George campus. Any two of the following courses are offered at Scarborouh, the remaining courses must be completed at the St. George campus.)
CSCC44F, CSCC45S, CSCC46S (at least one of CSCC44F, CSCC45S, CSCC46S, and any two of CSCC44F, CSCC45S, CSCC46S, CSCC45S are required at Scarborouh, while the remaining courses must be completed at the St. George campus.)
Any two of MATH44F, CSCC46S, CSCC45S, CSCC46S, and any three of CSCC44F, CSCC45S, CSCC46S, CSCC45S, CSCC46S, as chosen in the remaining semester.
In completing the Programme a student is strongly encouraged not to include any Computer Science courses other than those required above. It is also desirable to have a sequence of approximately four related half-courses in a subject area in which computers can be usefully applied.

Major Programme in Computer Science
Supervisor: W. Enright (284-3352)
NOTE Registration in this Programme is limited. Thirty students will be admitted annually to the Second Year of the Programme. Selection will be based on grades in first year courses in Computer Science and Mathematics. Seven and one-half full-course equivalents are required. The courses need not be taken in the order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

First year:
CSCA55F, CSCA68S, MATA26/MATA27/MATA55, MATA40F
Second year:
CSCB68F, CSCB37F, (MATB41F and MATB42S)/(MATB505F and MATB55S)
Third or fourth year:
A total of six half-courses chosen as follows:
(ii) at least two of CS245S

CSCA55F/S
Computer Programming
Introduction to algorithms, computer organization and computer programming. Emphasis is on learning to program at an algorithmic level. Various applications of computers will be discussed. (This course is intended for students who want to learn programming for use in their own area of interest.)

The purpose of the course is to introduce students to algorithms and to acquaint them with the capabilities and limitations of computers. The PL/I language is introduced as a tool for the precise specification of algorithms for computers, and for their communication to people. Some applications of programming techniques will be considered. Two hours of lecture and one two-hour tutorial per week.
Exclusion: CSCA8
Prerequisite: One grade 13 course in Mathematics
Session: Winter Day, Winter Evening, Summer Evening
Members of Computer Science faculty
CSCA5F - Introduction to Computing
The specification and formulation of algorithms. Introduction to computer organization. Programming in a high-level language such as PL/C. Structured programming. Elementary applications.
The PL/C programming language is used as a vehicle for the formulation and implementation of correct, lucid, and efficient algorithms for digital computers. Applications of programming techniques are considered. Two hours of lectures and two hours of tutorials per week.
Exclusion: CSCA56
Prerequisite: Grade 13 Functions and Relations, and Grade 13 Calculus
Corequisites: MAT 126 or MAT 125 or MAT 127
Session: Winter Day
Members of Computer Science faculty

CSCB08S - Assembly Language Programming and Applications
Introduction to assembly language programming, program segmentation and subroutine linking. Macro definition and use will also be covered.
The purpose of this course is to provide a detailed and thorough exposure to the problems of flow of control and representation of data and instructions in a computer. Two hours of lecture and one of tutorial per week.
Prerequisite: CSCA66 or CSCA68
Session: Winter Day

CSCB18S - Programming Techniques for Data Processing
This course is intended to examine the role of the computer in the business environment. The emphasis will be on the design methodology of business computer systems, rather than particular applications.
Specific topics include: the modular approach to program design including decision tables, if applicable; programming and table driven logic; sequential file processing including: data validation, external sorting, and generalized file processing systems. Some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given. Enrollment limit: 100
Prerequisite: CSCA68
Session: Winter Day

CSCB56S - Problem Solving With Computers
A continuation of CSCA58. The application of computers to various numerical and non-numerical problems. Topics include numerical methods, simulations, graph theory, data processing, and the validity of computer models. Specific topics include: basic data structures; lists, stacks, queues, trees, graphs; recursive programming. Graph theory algorithms. Sorting and searching algorithms. Numerical methods. Two hours of lectures and two hours tutorial per week.
Exclusion: CSCA68
Prerequisite: CSCA58
Corequisites: MAT 126 or MAT 125
Session: Winter Day
Members of Computer Science faculty

CSCB58S - Programming Languages and Their Applications
Programming languages and applications. The syntax and semantics of various programming languages, including both algebraic and symbolic manipulation languages. Data structures. Numerical and non-numerical applications.
This course is intended to introduce students to a wide range of programming languages, their formal description, and their applications. The languages PASCAL, SNOBOL, LISP will be discussed in detail, and their features will be compared. Other languages will also be discussed. Enrollment limit: 100
Prerequisite: CSCA66
Session: Winter Day

CSCB73F - Computer Organization
This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. No knowledge of electronics is necessary.
Specific topics include: an introduction to Boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple microprogrammed machine, basic data representation, assembler language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. Enrollment limit: 100
Prerequisite: CSCA68
Session: Winter Day

CSCC4F - File Structures and Application Systems
Searching techniques including binary trees, B-trees, and hashing. File structures and access methods. Emphasis will be given to the implementation of software for data entry systems, office automation systems, and business applications systems.
Prerequisite: CSCB18
Session: Winter Day

CSCC4F - Problem-Oriented Languages and Interpreters
This course is designed to give students insight into the workings of a programming language processor. It will motivate the use of formal languages in the specification of syntax and semantics for a programming language.
Specific topics include: an overview of a language processor's lexical analysis, an introduction to the mathematical theory of syntax, basic concepts of syntax and parsing algorithms, specification of semantics and code generation, the run-time organization of the language processor, storage allocation. The SNOBOL and ALGOL-W language processors will be used as a source of examples. The course structure is lectures and assignments. A series of assignments will result in the students building their own compiler/interpreter.
Prerequisite: CSCC34, CSCB73, CSCB68
Session: Winter Day

JMC81S - Numerical Methods
This course is designed to teach students that care taken in representation of information can lead to appreciably different results. The course will cover the quality of programs. A selection of topics will be used to illustrate approaches to choosing a data structure and associated algorithms. Specific topics include: basic data types and their representation, sequences, graphs, and basic graph algorithms, representation of trees and heaps, internal and external sorting algorithms, search and indexing structures: trees, dictionaries, and hash tables, file structures, data base systems. The course structure is lectures and tutorials.
Exclusion: CSCC3 before 1982/83
Prerequisite: CSCB68
Session: Winter Day
Co-operative Programme in Administration

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

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

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

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

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

Students may apply to enter the Co-op Programme following completion of Grade 13 or equivalent, or one year of university studies. Admissions decisions follow a review of each student's high school and university curriculum, looking in particular for accomplishments in both quantitative and verbal skills. For students applying from Grade 13, an appropriate Grade 13 curriculum would include at least one course from Functions and Relations, Algebra and Calculus and at least three courses from the following areas of study: English, History and Humanities. Prior study in any of the social sciences is not required.

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

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

Specialist in Co-operative Programme in Administration

Supervisor: A.P. Simmie (284-3250)

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

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

To maintain standing in the Co-op Programme each student must complete at least four full-course equivalents each year and maintain an overall GPA of 2.5 in all courses. To be entitled to compete for the first work term, (usually in the second year of study) a student must have completed seven full-course equivalents including COMA01, ECOA01, HISB02 or HISB03 and HSB04. To qualify for the second work term a student must have completed nine full-course equivalents including COMB01, JCSB27, ECOB03 and POLB50. To qualify for the third work term, a student must have completed eleven full-course equivalents including the core statistics requirement. To qualify for the fourth work term, a student must have completed thirteen full-course equivalents.

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

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

The first two years of study for co-op students follow:
First Year: COMA01, ECOA01, HISB02 or HISB03 and HSB04, JCSB27 or MAT27, POLS00
Second Year: COMB01, ECOB03, POLB50, two full-course equivalent electives; one work term

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

Every student in the Co-op Programme is required to pay an additional fee as established by Scarborough College.
### Core Courses: eleven full-course equivalents, to be selected as follows:

- **Behavioural Foundations** (two full-course equivalents)
  - Required:
    - JCSB21Y Organizational Behaviour
    - POLB65Y Political Behaviour
    - POLB66Y Psychology and Politics
    - POLC65F/S Psychology in the Workplace
    - PSYB10F/S Social Psychology
    - PSYB11F Social Psychology Laboratory
    - SOCBO4Y Political Sociology
    - SOCC13F/S Industrial Sociology
    - SOCC075 Sociology of Occupations and Professions

- **Public Policy Development and Evaluation** (four and one-half full-course equivalents)
  - Required:
    - ECOA01Y Introduction to Economics
    - ECOB03Y Intermediate Economics
    - POLB50Y Canadian Government and Politics
    - POLB50Y Public Administration
    - ECOB32F Economics of the Public Sector: Expenditures
    - ECOB35F Public Decision Making
    - HISB02Y History of the United States
    - HISB03Y History of the United States
    - HISB04Y Introduction to Canadian History

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

#### Policy Analysis (three full-course equivalents)
- **Policy Analysis**: two full-course equivalents from:
  - POLB53Y Public Policy in Canada
  - POLC60F Administrative Politics
  - POLC61S Policy Development
  - POLC62F/S Organized Interests and the State

#### Economic Policy (four full-course equivalents)
- **Economic Policy**: one full-course equivalent from:
  - POLB51F/S Government and Politics in Ontario
  - POLB54F Intergovernmental Relations
  - ECOB07Y Macroeconomic Theory and Policy
  - ECOB12S Quantitative Methods in Economics: Applications
  - ECOB31S Economics of the Public Sector: Taxation
  - ECOB35F Public Decision Making
  - ECOB41S Industrial Organization
  - GGRB27F Development Principles I

#### History and Cultural Foundations (two full-course equivalents)
- **History and Cultural Foundations**: To be selected from the curricular offerings of the Humanities Division at least one of which must be:
  - HISB02Y Britain from the 18th Century to the Present
  - HISB03Y History of the United States
  - HISB04Y Introduction to Canadian History

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### Evaluation of Social Issues (four and one-half full-course equivalents)
- **Evaluation of Social Issues**: one full-course equivalent from:
  - SOCBO1Y Methods in Social Research
  - SOCC05Y Urban Sociology
  - SOCC06F/S Applied Sociology
  - PSYB08S Experimental Design in Psychology

### Urban and Regional Policy Analysis (four and one-half full-course equivalents)
- **Urban and Regional Policy Analysis**: one full-course equivalent from:
  - GGRB04Y The Nature of Human Geography
  - GGRB02Y Analytical and Quantitative Methods in Geography
  - GGRB05Y Urban Geography
  - GGRB27F Development Principles I
  - GGRB28S Development Principles II
  - ECOB41S Urban Economics
  - GGRB04Y Urbanization and Residential Geography
  - GGRC16F Urban Transportation Policy Analysis
  - GGRC31S Development and Planning of Metropolitan Regions
  - POLB88Y Urban Politics
  - POLC60F Administrative Politics
  - POLC61S Policy Development
  - SOCC26F Sociology of Urban Growth

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### Programme Management (four and one-half full-course equivalents)
- **Programme Management**: one full-course equivalent from:
  - COMC04F Principles of Marketing
  - COMC05S Introduction to Marketing Management
  - JECO22Y Corporation Finance
  - JECB22Y Analysis for Decision Making I
  - JECB23S Analysis for Decision Making II
  - PSYB08S Experimental Design in Psychology
  - CGLC05F Organized Interests and the State
  - CSARC5F Computer Programming
  - CSARC5F Introduction to Computing
  - CSACC5S Problem Solving with Computers
  - CSCB28S Programming Techniques for Data Processing
  - ECOB41S Industrial Organization
  - SOCC075 Sociology of Occupations and Professions
  - SOCC13S Industrial Sociology
  - SOCC26F Sociology of Urban Growth

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### Required Courses:

- **Analytical and Quantitative Methods in Geography**
- **Probability and Statistics I**
- **Probability and Statistics II**
- **Data Analysis in Psychology**
- **Experimental Design in Psychology**
- **Social Statistics**
Development Studies

**College Programme in Development Studies**
**Supervisor:** H. Sandbrook (284-3168)
Development studies have been stimulated by the demise of formal colonialism since the Second World War. The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At Scarborough College, the major programme is based primarily upon existing courses in the Division of Social Sciences taught by faculty members actively involved in development problems. Organizing the programme an attempt has been made to provide a core of fundamental knowledge which can be applied in third world countries or in backward parts of "developed" countries. Students may select additional courses from a broad range of relevant courses which will allow more specialized thematic or regional concentration, while ensuring the relatively broad interdisciplinary background essential in practical development work. Students enrolling in the College Programme in Development Studies are strongly advised to combine it with a major programme in a related discipline.

Students must enrol in at least three full-course equivalents from the following:
(Courses marked with an asterisk have prerequisites.)
- GGRB21Y Geography of Resources
- GGRB23Y Soil Management and Conservation
- GGRC33Y Africa: Perspectives in Geography and Development
- POLB99S Politics and Society in Contemporary Japan
- POLB92Y Politics and Society in Independent Africa
- POLB93Y The Chinese Political System
- POLC91F Urbanization and Underdevelopment
- POLC92S Multinational Corporations and Underdevelopment
- SOCB14Y Comparative Social Structure
- SOCB23Y Sociology of Revolution
- HISB21F Frontier Communities in the British European Commonwealth
- HISB22S The South African Model
- HISC21Y Urbanization and Social Change - Nineteenth Century England
- GGRB24Y Environmental Pollution
- POLC85Y Comparative Communism

**Second Year:**
- GGRB27F
- GGRB28S
- POLB91Y, HISB21F
- HISB22S, SOCB19Y

**Third Year:**
- ANTB40Y, POLB90S, POLB92Y, SOCB23Y, SOCC19F, HISB21Y

**Example 2 (four-year degree)**
**First Year:**
- ECOA01Y, SOCA01Y, POLA01Y, GGRA04Y, ANTA01Y

**Second Year:**
- ECOB03Y, ECOB07Y, POLB91Y, GGRB27F, GGRB28S, SOCB19Y

**Third Year:**
- ECOB66F, ECOB68S, ECOB11F, ECOB12S, ECOB61S, ECOB62F, GGRB01Y, ANTB32F, ANTB50S

**Fourth Year:**
- SOCC17F, POLC91F, POLC92S, ECOC07S, ECOC09S, GGRC33Y, POLB92Y

**Additional Courses of relevance to the programme of which students should be aware:**
- ECOB81Y North American Economic History
- ECOB84Y Environmental Pollution
- POLC85Y Comparative Communism

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

**Notes:**
The College Programme in Development Studies requires a minimum of eight full-course equivalents from the courses listed above, together with appropriate prerequisites. These normally include A-level courses in each of the disciplines selected. It is possible to complete the College Programme in a three-year degree, as shown in Example 1 below. However, students who are interested in obtaining thorough training in development studies are strongly recommended to register in a four-year degree which requires combination of a Major programme with the College Programme. This provides the opportunity to select a wider range of development courses as well as a stronger disciplinary background, as in Example 2 below.

**Example 1 (three-year degree)**
- First Year:
  - HISB02Y, SOCA01Y, POLA01Y, GGRA04Y, ANTA01Y

**Example 2 (four-year degree)**
- First Year:
  - HISB02Y, SOCA01Y, POLA01Y, GGRA04Y, ANTA01Y

**Specialist Programme in Drama**
**Supervisor:** M. Q. Schonberg (284-3126)
A student is required to complete twelve full-course equivalents, ten in the area of Dramatic Literature and Theatre, and two in related disciplines, as follows:
1. ORAB01Y An Introduction to the English Language
2. ORAB03Y Shakespeare
3. ORAB04Y The History of Theatre I
4. ENGB11Y Modern Drama
5. ENGB31Y Modern Drama
6. Two full-course equivalents chosen from the following:
   - CLAB02Y Greek and Roman Tragedy
   - ENGB04Y Shakespeare
   - ENGB10Y English Poetry and Drama
   - ENGB12Y English Drama
   - ENGC28F Drama in English Canada
   - FRED29F French Drama of the Eighteenth Century
   - FRED20F French Theatre of the Early Modern Period
   - FRED31F Contemporary French Theatre: The Theatre and the Audience

Discipline Representative: M. Q. Schonberg
The Drama courses at Scarborough College have been devised to serve both students who intend to specialize in Drama and Theatre studies and those who have a casual interest in the subject. At present we offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the History of Theatre, in which the student becomes familiar with the development of the theatre from a non-literary point of view from its classical beginnings to the present day. These courses are augmented by courses in the dramatic literatures of several countries which are offered by members of the faculty who specialize in these areas.

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

In the practical courses, the students become acquainted with all aspects of theatre production in studio situations, both as actors and technicians. The students study with faculty members and with professional artists and teachers. Participation in public productions at the College is encouraged.
| FREB38S* | The Theatre of French Canada Theatre | The student may take only one of the Individual Courses in any single academic year. |
| FREB39S* | Workshop in Modern French Theatre | Two full-course equivalents chosen from the following: |
| FREB41S* | French Classicism: The Theatre | - ANTA01Y Introduction to Anthropology |
| JHGB50Y | (GERB40Y) The Development of German Drama (in translation) | - ANTA03Y Cultures in the Modern World |
| GERB63F* | (GERB16Y) Nineteenth Century Drama | - ANTB02Y* Anthropological Study of Religion |
| GERB70S* | (GERB03Y) Twentieth Century Drama | - ANTB23Y Comparative Mythology |
| HUMB70Y | Introduction to Cinema | - CLAB01Y Greek and Roman Epic |
| ITAB27F* | Modern Italian Theatre from Pirandello to the Present | - ENGA01Y English Literature: Practical Criticism and Interpretation |
| ITAB35S* | Italian Sixteenth Century Theatre | - ENGA08Y Twentieth Century Literature |
| ITAB41S* | Italian Eighteenth Century Theatre | - HIRA03Y Aspects of Western Culture from the Renaissance to Modern Times |
| (SPB23Y) | Spanish Drama | - HISA01Y The European World: An Introduction to History |
| JSDB24F | Golden Age Drama | - HUMA01Y Prologue |
| * Students should check these courses for prerequisites |
| 7 | Three full-course equivalents chosen from the following (of which two must be at the C-level) | - HUMA11Y Greek and Roman Mythology |
| | (See CRAC10-28) | - LINA01Y General Linguistics |
| DRA802Y | The Directors' Theatre | - LINA04F/S Introduction to Language |
| DRA805Y | The Art and Nature of Comedy | - MUSA01Y Introduction to Music |
| DRA810B | Improvisational Theatre: Commedia dell’Arte | - PHI02F Philosophy and Art |
| DRA812B | Medieval and Early Tudor Drama: The Texts and Their Production | - PSY01Y Introduction to Psychology |
| DRA813B | The Victorian Theatre | - SOCA01Y Introduction to Sociology |
| DRA812B | Advanced Practical Workshop and Elements of Directing | - Students should check these courses for prerequisites |
| DRA810Y** | Individual Studies in French Theatre and Drama in Transition | ** Prerequisite ten full-course equivalents |
| DRA811Y** | Individual Studies in German Theatre and Drama in Transition | NOTE: No more than ten full-course equivalents in drama are permitted in the four-year degree. |
| DRA812Y** | Individual Studies in Italian Theatre and Drama in Transition | |
| DRA813Y** | Individual Studies in Russian Theatre and Drama in Transition | |
| DRA814Y** | Individual Studies in Spanish Theatre in Translation | |
| DRA20Y/DRAC21Y/DRAC22Y/DRAC23Y/DRAC24Y/DRAC25Y/DRAC26Y/DRAC27Y/DRAC28S | Supervised Reading Courses | |
| Group A | DRAC01Y | Advanced Practical Workshop and Elements of Directing |
| DRAC10Y** | Individual Studies in French Theatre and Drama in Translation |
| DRAC11Y** | Individual Studies in German Theatre and Drama in Translation |
| DRAC12Y** | Individual Studies in Italian Theatre and Drama in Translation |
| DRAC13Y** | Individual Studies in Russian Theatre and Drama in Translation |
| DRAC14Y** | Individual Studies in Spanish Theatre in Translation |
| DRAC20Y/DRAC21Y/DRAC22Y/DRAC23Y/DRAC24Y/DRAC25Y/DRAC26Y/DRAC27Y/DRAC28S | Supervised Reading Courses |
| Group B | CLAB02Y | Greek and Roman Tragedy |
| DRA802Y | The Directors' Theatre | |
| DRA805Y | The Art and Nature of Comedy | |
| DRA810B | Improvisational Theatre: Commedia dell'Arte | |
| DRA812B | Medieval and Early Tudor Drama: The Texts and Their Production | |
| DRA813B | The Victorian Theatre | |
| ENGB04Y* | English Poetry, Prose and Drama 1660-1900 |
| ENGB10Y | English Drama to 1642 |
| ENGB12Y* | English Drama 1642-1820 |
| ENGB28F/S | English Drama 1820-1970 |
| ENGB31Y | Modern Drama |
| FREB29F/S | French Drama of the Eighteenth Century |
| FREB30F* | French Theatre of the Early Modern Period |
| FREB31S | Contemporary French Theatre: the Theatre and the Absurd |
| FREB38F/S | The Theatre of French Cinema |
| FREB39S* | Workshop in Modern French Theatre |
| FREB41FS* | French Classicism: The Theatre |
| JHGB50Y | The Development of German Drama (in translation) |
| GERB63F* | Nineteenth Century Drama |
| GERB70S* | Twentieth Century Drama |
| HUMB70Y | Introduction to Cinema |
| ITAB27F* | Modern Italian Theatre from Pirandello to the Present |
| ITAB35S* | Italian Sixteenth Century Theatre |
| ITAB41S* | Italian Eighteenth Century Theatre |
| JSDB24F* | Golden Age Drama |
| * Students should check these courses for prerequisites |
| ** Prerequisite ten full-course equivalents |

** DRA804Y The History of Theatre II |

A study of the history of the theatre in the nineteenth and twentieth centuries and study of the non-literary aspects of modern theatre in Europe and North America in the proper historical and socio-political context. Major topics of concentration will deal with the European Romantic Theatre, The Early Theatre in North America: Melodrama: The Advent of Realism, The Naturalistic Theatre: The Symbolist Trends, The Expressionistic Drama: The Epic Theatre, Contemporary Theatre. Another area of study will include ballet, opera, and so-called "lesser" theatrical forms, i.e. Music Hall, Vaudeville, Burlesque Theatre, Circus.

Two one-hour classes and one one-hour optional seminar per week.

One text will be Oscar Brandt: History of Theatre, Third Edition.

Session: Winter Day

L. L. Browne
DRAC14Y Individual Studies in Spanish Theatre in Translation
Individuals will study under the supervision of members of the appropriate language discipline, and details of course content and evaluation will be arranged in consultation between the student, a member of the language discipline, and the Drama supervisor.
In these courses the emphasis will be on the student’s individual initiative, with the faculty member acting as tutor rather than lecturer.
Prerequisite: At least ten full course equivalents, two of which must be DRAB03 and DRAB04.
These courses are intended for students specializing in Drama who are not sufficiently fluent in French/German/Italian/Russian/Spanish to read the works in the original language. Permission of Supervisor required.
Session: Winter Day M.Q. Schonberg

DRAC20-24Y DRAC25F, C26S DRAC27F, C28S Supervised Reading Courses
This is an advanced reading course for drama students. The student wishing to take this course should consult with M.Q. Schonberg, the Program Supervisor, who will arrange in cooperation with the student a reading list and set the specific course requirement for the course.

The emphasis in this course will be on advanced individual projects exploring specific areas of the history of theatre, and/or dramatic literature. Proposals by students for specific projects will be assessed by the Supervisor in consultation with other members of faculty.
Prerequisite: One B-level full-course equivalent in Drama, and permission of instructor.
Session: Winter Day M.Q. Schonberg

Courses Not Offered in 1982-83

DRAC10Y Individual Studies in French Theatre and Drama in Translation

DRAC11Y Individual Studies in German Theatre and Drama in Translation

DRAC12Y Individual Studies in Italian Theatre and Drama in Translation

DRAC13Y Individual Studies in Russian Theatre and Drama in Translation

Economics
Assistant Chairman: A. Berry
The Economics curriculum offers a wide variety of both theoretical and applied courses. The curriculum provides an excellent background for careers in business, government, and the professions. Many of the courses are not intended primarily for specialists in the discipline but can be of value to students with very diverse interests.
There are certain courses which are central to the curriculum: the introductory course (ECOE01), the initial B-level courses in Price Theory (ECOE03) and Macroeconomic Theory and Policy (ECO007); at least one course that provides a different perspective either on contemporary economic activity - Economic History (ECOB11, ECOB22), the Literature of Economics (ECOB20, ECOB21), Comparative Economic Systems (ECOB26); or a student who wants to pursue Economics in depth should consider seriously acquiring a background in Accounting, Statistics, and Computer Science and, most important of all, Mathematics (especially Calculus, Probability Theory, and Linear Algebra).

Specialist Programme in Economics
Note: Beginning in 1983-84, registration in the Programme will be limited. Students will be selected on the basis of the second year of the Programme, and will be selected on the basis of grades in some or all of the required A-level courses and on overall Grade Point Average. For more specific information, students should refer to the Corrigenda to this Calendar, to be published in May, 1982.
Supervisor: R. Saunders (284-3115)
The Special Programme in Economics requires a heavy concentration in the discipline. A Specialist Programme may not be advisable for all students. Students who are interested in Economics and in other areas as well should refer to the Economics course descriptions, and to the Major Programme in Economics.
The Programme is designed for students considering employment in fields where a knowledge of economic theory and a modest ability to do research are important. The Programme is not a guarantee of employment but it does provide the basic quantitative and theoretical skills which are essential for decision-making in business and government.
Specialist Programme in Economics and Mathematics

Note: Beginning in 1983-84, registration in this Programme will be limited. Students will be selected to enter the Second Year of the Programme, and selection will be based on grades in some or all of the required A-level courses and on overall Grade Point Average. For more specific information, students should refer to the Corrigenda to this Calendar, to be published in May, 1982.

Supervisor: R. Saunders (284-3115)
Six full-course equivalents are required in each of the three disciplines. - The specific courses required are listed below. In addition, mention is made of courses in other disciplines that complement the Specialist Programme.

Required courses in Economics:

ECON07
ECON09
ECON12
ECON15
ECON18
ECON21
ECON23
ECON26
ECON29
ECON32
ECON35
ECON38
ECON41
ECON44
ECON47
ECON49
ECON52
ECON55
ECON58
ECON61
ECON64
ECON67
ECON69
ECON72
ECON75
ECON78
ECON81
ECON84
ECON87
ECON90
ECON93
ECON96
ECON99

ECOS11
ECOS14
ECOS17
ECOS20
ECOS23
ECOS26
ECOS29
ECOS32
ECOS35
ECOS38
ECOS41
ECOS44
ECOS47
ECOS49
ECOS52
ECOS55
ECOS58
ECOS61
ECOS64
ECOS67
ECOS69
ECOS72
ECOS75
ECOS78
ECOS81
ECOS84
ECOS87
ECOS90
ECOS93
ECOS96
ECOS99

Specialist Programme in Economics and Political Science

Note: Beginning in 1983-84, registration in this Programme will be limited. Students will be selected to enter the Second Year of the Programme, and selection will be based on grades in some or all of the required A-level courses and on overall Grade Point Average. For more specific information, students should refer to the Corrigenda to this Calendar, to be published in May, 1982.

ECOS11
ECOS14
ECOS17
ECOS20
ECOS23
ECOS26
ECOS29
ECOS32
ECOS35
ECOS38
ECOS41
ECOS44
ECOS47
ECOS49
ECOS52
ECOS55
ECOS58
ECOS61
ECOS64
ECOS67
ECOS69
ECOS72
ECOS75
ECOS78
ECOS81
ECOS84
ECOS87
ECOS90
ECOS93
ECOS96
ECOS99

ECOB11F Quantitative Methods in Economics
An introduction to basic statistical methods and their applications to economic problems.
Exclusion: ANT48; GGR48; PSY48; SOC58; STAB52
Prerequisite: ECOA01 (Effective in the 1982 Summer Session and thereafter, a grade of at least C- in ECOA01 will be required.)
Session: Winter Day, Winter Evening

ECOB12F Quantitative Methods in Economics: Applications
A course in some quantitative methods used in the analysis of economic policy. The student is introduced to the primary statistical techniques and modelling issues that are employed in forecasting, policy evaluation and planning decisions. Topics will include multiple regression, estimates of multiple equation systems, forecasting techniques and input-output models. Calculus is strongly recommended.
Prerequisite: ECOB11 or GGR48; PSY48; SOC58; STAB52; CEG58 or CEG59
Session: Winter Day

ECOB26F Literature of Political Economy
A study of the classical literature of Political Economy, especially selections from the works of Adam Smith, Matthew, Ricardo and J.S. Mill.
Prerequisite: ECOA01
Corequisites: ECOB3B, B07
Session: Winter Day

ECOB25F Literature of Political Economy II
A study of classical literature of Political Economy, especially selections from the works of Marx, Lenin, Marshall and Keynes.
Prerequisite: ECOA01
Corequisite: ECOB3B, B07
Session: Winter Day

ECOB31S Economics of the Public Sector: Taxation
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design. Some attention will also be given to the use of government fiscal policy to regulate the level of economic activity.
Prerequisite: ECOB3
Session: Winter Day
ECOB32F Economics of the Public Sector: Expenditures
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.
Prerequisite: ECOB303
Session: Winter Day

ECOB35F Public Decision Making
A study of decision making by governments from an economic perspective. The course begins by examining various rationalities for public involvement in the economy and then examines a number of theories explaining why decisions are actually made in the public sector. The course concludes with a number of case studies of Canadian policy making.
Prerequisite: ECOA01
Session: Winter Day
M. Krashinsky

ECOB37S Law and Economics
A study of laws and legal institutions from an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: externalities, property rights, environmental law, contracts, torts, product liability and consumer protection, criminal law, and procedure.
Prerequisite: ECOB303 (ECOB303 will be accepted as a corequisite when ECOB37S is taught in the second term of the winter session)
Session: Winter Day

ECOB41F Industrial Organization
The economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation and diversification.
Prerequisite: ECOB303
Session: Winter Day
R. Saunders

ECOB45F Poverty and Income Distribution
A study of alternative theories of income distribution with applications to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.
Prerequisite: ECOB303
Session: Winter Day
M. Gunderson

ECOB57S Urban Economics
Economic analysis applied to contemporary urban problems. Topics discussed include housing and urban renewal, poverty and income maintenance, education, and metropolitan organization of urban areas.
Prerequisite: ECOB303
Session: Winter Day

ECOB51S Labour Economics
The application of the basic tools of labour economics to various policy issues such as: fertility and family formation; labour force participation; hours of work, overtime and moonlighting; mobility and migration; the effect of market structures on the wage-employment decision; the role of wage structures, causes, types and incidence of unemployment; wage-price guidelines and the wage-price-employment trade-offs; the impact of institutional constraints such as unions, featherbedding, minimum wages, wage parity, sex discrimination, occupational licensing, unemployment insurance, wage subsidies and negative income tax plans.
Prerequisite: ECOB303
Session: Winter Day
M. Gunderson

JCEB54S Industrial Relations
A study of industrial relations in the Canadian setting. Topics include: industrial relations theory and systems; history, philosophy and structure of unionism; labour law, and collective bargaining. Limited enrolment: 80.
Prerequisite: ECOA01
Session: Winter Evening

ECOB61S International Economics: Finance
Balance of payments, equilibrium and departures from it. A study of various international monetary arrangements; flexible rates; the gold standard and the dollar standard; current efforts to reform the system. The economics of international investment and its control. The effects of international investment.
Prerequisite: ECOB307
Session: Winter Day

ECOB62F International Economics: Trade Theory
An analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade. "Free trade" and protectionism. The optimum tariff; trade blocs; the economics of customs unions and regional economic integration. Tariff bargaining. The Canada-U.S. Auto Pact.
Prerequisite: ECOB303
Session: Winter Day

ECOB66F Economic Development
A study of growth and development with the aim of devising policies to promote the development of less developed countries and regions. Topics include: the role of international trade and investment in developing countries; the problem of population growth and unemployment; inequalities in income distribution, the roles of agriculture and industry.
Prerequisite: ECOB303
Session: Winter Day
A. Barry

ECOB68S Comparative Economic Systems
An introduction to alternative ways of organizing economic activities - allocating resources, distributing income, accumulating capital. Part of the time will be spent examining these alternatives from a theoretical perspective; the rest will be devoted to studies of particular economies, especially Canada, the Soviet Union and Yugoslavia.
Prerequisite: ECOA01
Corequisite: ECOB303
Session: Winter Day

JCEB72F Analysis for Decision Making I
A course in the analytical formulation and solution of decision problems. Linear decision models, especially linear programming, are the tools primarily discussed and employed.
Prerequisite: CSCA56 or CSCA58, MAT40 or MAT22 or MAT26 or MAT27 or MAT55, ECOB303
Corequisite: ECOB111 or GGRB202 or MATB57
Session: Winter Day

JCEB73S Analysis for Decision Making II
A continuation of JCEB72F with emphasis on deterministic, linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing.
Prerequisite: JCEB72S
Session: Winter Day

ECOB81Y North American Economic History
A survey of important themes in the economic history of Canada and the United States. A comparative approach is employed to develop such themes as the role of natural resource staple industries, and urbanization, and the relationship of the state to economic change in the two countries.
Prerequisite: ECOA01
Session: Winter Day

ECOB82Y European Economic History
A study of the emergence of industrial society in Europe since the Middle Ages with some emphasis on the comparative experience of Britain and other European countries and the growth of the nineteenth century world economy. Particular attention is paid to technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.
Prerequisite: ECOA01
Session: Winter Day
J. Cohen

JCEB02Y Corporation Finance
An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to develop a sense of the social and legal significance of the modern corporation. Limited enrolment: 60.
Prerequisite: COMB01; ECOB303; ECOB111
Session: Winter Day, Winter Evening

ECOB05S The Economics of J.M. Keynes
A study of his major works and consideration of their broad social implications. An attempt will be made to evaluate their relevance for Canada and other countries at the present time. Modern criticisms of Keynes will be analysed.
Prerequisite: ECOB303; ECOB07
Session: Winter Day

ECOB07S The Economics of Karl Marx
A study of Marx's approach to economic theory and economic history. Discussion will centre on Marx's theory of capitalism and will emphasize the theory of exploitation and the process of accumulation.
Prerequisite: ECOB303; ECOB07
Session: Winter Day
ECOC06S Econometrics
A detailed examination of the issues relevant for policy evaluation and economic planning in building, estimating and evaluating statistical models in economics. This course will apply the theory of linear statistical models and simultaneously estimation covered in ECOS12S to problems such as: economic demand forecasting, the modelling of supply-demand equilibria in markets, measuring the impact of government regulatory policies and the use of large scale regional or national econometric models.
Prerequisites: ECOC12, ECOC03, ECOC07, MATA40 or MATA41 or MATA27, and permission of instructor.
Corequisites: ECOC13 or ECOC14, Session: Winter Day
W. Milne

ECOC11F and ECOC12S Supervised Reading
For upper-level students whose interests are not covered in one of the other courses normally offered. Students are expected to design the course with the guidance of a staff member interested in the area of study being proposed. The courses will normally be made available only to students whose performance in Economics courses has been well above average. Students interested in supervised reading courses are urged to contact faculty members well in advance, as not all faculty will be available for these courses in any single term.
Prerequisite: Permission of instructor.
Session: Summer Day, Summer Evening, Winter Day, Winter Evening

ECOC13F Advanced Microeconomic Theory
An upper-level extension of the ideas studied in ECOC03. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.
Prerequisites: ECOC03, ECOC07, ECOC11, MATA22 or MATA26, or MATA27 or MATA55.
Session: Winter Day

ECOC14S Advanced Macroeconomic Theory
Post-Keynesian developments in macroeconomics (including monetarist) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconomic models.
Prerequisites: ECOC03, ECOC07, ECOC11, MATA22 or MATA26 or MATA27 or MATA55.
Session: Winter Day

ECOC15F and ECOC16S Topics in Advanced Economic Theory
These courses are devoted to some aspect of economic theory not usually covered at the undergraduate level, or to recent work extending or revising received theory, or to alternatives to orthodox economic theory.
A detailed list of courses and instructors will be available to students from the late spring onwards.
Prerequisite: ECOC13 or ECOC14 and permission of instructor.
Session: Winter Day

ECOC17F ECOC18S Workshops in Economics
The workshops deal with detailed problem areas in Economics. In past years these have included such subjects as natural resources, technical change, international investment, multinational firms, economic discrimination, or extensions of applied topics covered at the B-level. A detailed list of the courses and instructors will be available to students from the late spring onwards.
Prerequisites: ECOC03, ECOC07, MATA22 or MATA26 or MATA27 or MATA55. For ECOC19 and ECOC20, ECOC13 or ECOC14 will be a prerequisite.
Session: Winter Day

JCEC09S Public Policy Towards Business
A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include regulation in theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and public ownership.
Prerequisite: ECOB41
Session: Winter Day
R. Saunders

JCEC70F Advanced Corporate Finance
This course focuses on major issues in corporate financial management with reference to company valuation for financial decisions and capital structure issues. Limited enrolment: 60.
Prerequisite: JCEC02
Session: Winter Day

JCEC75S Investments
This course reviews major investment problems, in particular the factors affecting term structure and risk structure of yields on financial claims.
Limited enrolment: 60.
Prerequisite: JCEC02
Session: Winter Day

Courses Not Offered in 1982-83
ECOB13F Applications of Mathematics to Economics
Prerequisite: ECOA01; MATA27 or MATA41 or MATA50.
Corequisite: ECOB03

ECOC11F ECOC12S Workshops in Economics
Prerequisites: ECOC03, ECOC07, MATA26 or MATA27 or MATA55. For ECOB19 and ECOC20, ECOC13 or ECOC14 will be a prerequisite.
Session: Winter Day

JCEC09S Public Policy Towards Business
A study of various aspects of government policy that relate to the conduct of firms. Topics covered will include regulation in theory and practice, the political economy of tariff determination and the effects of tariffs on Canadian industrial structure, competition policy and public ownership.
Prerequisite: ECOB41
Session: Winter Day
R. Saunders

JCEC70F Advanced Corporate Finance
This course focuses on major issues in corporate financial management with reference to company valuation for financial decisions and capital structure issues. Limited enrolment: 60.
Prerequisite: JCEC02
Session: Winter Day

Discipline Representative: E. P. Vicari
The study of English encompasses English, Canadian and American literatures and other literatures in the English language. The curriculum offers a broad range of courses designed to enable students to gain a comprehensive knowledge of a rich literary tradition. In addition, sequences of courses are available (in historical periods, in specific genres, in national literatures, and in particular authors) to allow students to pursue individual interests in greater depth. In all courses, emphasis is placed on close responsive reading, critical thinking, and clarity of expression.

At the A-level, the curriculum offers two kinds of courses. A01 and A02 deal with works from a broad historical spectrum, and provide a basic grounding for further studies in English: they are designed particularly, but not exclusively, for students planning a Specialist or Major Programme in English. For students not intending to pursue an English Programme, A08 provides a good alternative introduction to English at the university level, through the study of Twentieth-Century literature.

At the B-level, several courses are offered which require no prerequisite if available at the beginning and to more advanced students: see B01, B07, B08, B10, B11, B14 and B15. Other courses, as well as prerequisites, are indicated to design on the basis of previous work in English and presage some background in critical skills and some familiarity with the subject matter.

C-level courses are designed for more sophisticated studies and require some independent work on the part of the student. These courses are generally restricted in enrolment and are conducted as seminars. Students are advised to consult the prerequisites for these courses when planning their individual programmes.

*Note for Prerequisites: Students who first registered at the College in the 1979-80 Winter Session or earlier may choose the following alternative prerequisite for ENG020, B04, B05, B06, B09, B12, B16, B17, B18, B23, and B33: One full-course equivalent in English.

Specialist Programme in English
Supervisor: M. Tait (284-3146)
Ten full-course equivalents in English and two in related Humanities disciplines are required. They should be selected as follows.
1. ENGA01Y English Literature: Practical Criticism and Interpretation
2 ENGA02Y English Literature: An Historical Survey
3 ENGB05Y English Literary Criticism
4 Five additional full-course equivalents in English at the A- or B-level, including at least two courses in periods before 1800 and two courses in periods after 1800
5 Two full-course equivalents in English at the C-level
6 Two full-course equivalents in related Humanities disciplines to be chosen from the following:
   CLAB01Y Greek and Roman Epic
   CLAB02Y Greek and Roman Tragedy
   HIBS07Y Britain from the Eighteenth Century to the Present
   HIBS23Y Tudor and Stuart England (Prerequisite: HIBS23Y course)
   HUMA01Y Prologue
   HUMA11Y Greek and Roman Mythology
   LINA01Y General Linguistics

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

Major Programmes in English
Supervisor: M. Tait (284-3146)
Seven full-course equivalents in English are required. They should be selected as follows:
1 ENGA01Y English Literature: Practical Criticism and Interpretation
2 ENGA02Y English Literature: An Historical Survey
3 Four additional full-course equivalents in English, including at least one course in a period before 1800 and one course in a period after 1800
4 One additional full-course equivalent in English at the C-Level. See also the Specialist Programme in Language and Literature.

ENGA01Y English Literature: Practical Criticism and Interpretation
An introduction to methods of literary criticism through the close reading of texts representative of various literary genres, and through frequent exercises in analytical writing. Normally taken in conjunction with ENGA02Y.

ENGA02Y English Literature: An Historical Survey
A survey of English literature from the Middle Ages to the present century, in the context of relevant intellectual, aesthetic, social and political developments. Normally taken in conjunction with ENGA01Y.

ENGA04Y English Literature: An Historical Survey
A survey of English literature from the Middle Ages to the present century, in the context of relevant intellectual, aesthetic, social and political developments. Normally taken in conjunction with ENGA01Y.

ENGA05Y Twentieth-Century Literature
An introduction to critical reading and writing through a selection of modern literature from the English-speaking world.

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.

ENGB02Y Chaucer
A study of Chaucer's poetry. The poems are studied mainly as artistic productions, but also in relation to their historical and intellectual backgrounds. The texts will be read in Middle English and some language study is involved.

ENGB05Y Romantic Poetry
Blake, Wordsworth, Coleridge, Byron, Shelley. Keats for special study. Relevant prose works by these authors, and selections from other poets of the period will also be studied.

Further information will be available later in Room H332A.
Pre-requisite: ENGA01 (ENGA04), ENGA02, or ENGB15
Session: Winter Day
H. Jackson

ENGB09Y Prose and Poetry of the English Renaissance 1500-1660
The non-dramatic literature of the English Renaissance from the rise of English humanism to the Restoration.

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

Pre-requisite: ENGA01 (ENGA04), or ENGB15
Session: Summer Evening
E.P. Vicari

ENGB10Y Shakespeare
A study of at least twelve plays. A course in selected plays by Shakespeare, both as unique works of art and in the larger contexts of Shakespeare's work as a Renaissance dramatist. A list of texts will be available in H332A.

Session: Winter Day
A. Patenall

ENGB11Y Varieties of Drama
A study of drama from ancient Greece to the present day. A wide range of plays will be examined in terms of theatrical convention, dramatic form, genre, theme, and verbal style.

The course introduces students to a wide range of dramatic material through the study of at least ten plays. Students are encouraged to think about the relationship between dramatic texts and their theatrical production, to consider the relevance of generic labels (e.g. tragedy, comedy, tragedy), to make thematic connections among the plays, and to do close textual analysis of some of...
ENGB12Y English Drama to 1642
A historical study of English drama from its beginning in medieval religious plays through the full flowering of Elizabethan and Jacobean tragedy and comedy to the closing of the theatres in 1642. In addition to selected medieval and Tudor plays, there will be special emphasis on Marlowe, Shakespeare, Ben Jonson, Webster, Middleton, Tourneur, and Ford. Some attention will also be paid to staging techniques and theatres from medieval times to the Elizabethans. The Shakespearean texts are: Comedy of Errors, Loves Labour's Lost, Richard II, Much Ado about Nothing, Measure for Measure, Othello, The Winter's Tale. Others will be announced. Lectures and discussion periods are supplemented by seminars and, if interest warrants, the production of a short play. Prerequisite*: ENGA01 (ENGA04), ENGA02, or ENGB11 Session: Winter Day J.M.R. Margesson

ENGB14Y Varieties of Fiction
About 16 works will be studied, including short stories, novels, and novellas. The focus of the course is on the historical development of fiction, but on the nature of narrative. We will study such things as the significance of beginnings and endings, the role of the narrator, and the relationship between realism and fantasy. Texts will include: Austen, Emma; James, Daisy Miller; Fowles, The French Lieutenant's Woman; Hardy, The Woodlanders; Forster, Howards End; Swift, Gulliver's Travels; Carroll, Alice in Wonderland/Faulkner, As I Lay Dying; Barth, Lost in the Funhouse.

ENGB16Y Fiction 1832-1900
A study of the development of the English novel in the Victorian period. This course provides a qualitative understanding of the English novel in its most assured period of creation through study of the following works: W.M. Thackeray, Vanity Fair; G. Eliot, Middlemarch; Dickens, Hard Times, Great Expectations, Hard, Far From the Madding Crowd, The Woodlanders, Jude the Obscure; G. Moore, Esther Waters; Conrad, The Secret Agent. Students are urged to read as many of these novels as possible beforehand. Teaching will be conducted by lectures, discussion and seminars. Prerequisite*: ENGA01 (ENGA04), ENGA02, or ENGB14; or HSC21 Session: Winter Day A. Thomas

ENGB17Y Fiction before 1832
At least twelve novels, including one or more by each of Richardson, Fielding, Sterne, Austen and Scott. Further information will be available later in Room H332A. Prerequisite*: ENGA01 (ENGA04), ENGA02; or ENGB14 Session: Winter Day W.J. Howard

ENGB24Y Major American Authors
A close study of works by at least four and no more than six authors. Three of the authors will be drawn from the following list: Cooper, Emerson, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner. Further information will be available later in Room H332A. Prerequisite: One full-course equivalent in English Session: Winter Day J. Kay

ENGB25S The Canadian Short Story
A study of the best contemporary short stories written by Canadian authors. The course will emphasize the short fiction of Margaret Atwood, Margaret Laurence, Alice Munro, Clark Blaise, Hugh Hood, and Mavis Gallant. This course will not be a survey of authors studied chronologically, nor will it place its primary focus on the context of culture or nationality. Instead, it will first of all seek to discover techniques for reading Canadian short stories. Since one of the techniques considered will be the use of an author's body of work as a means of understanding an individual story, single-author collections will be used rather than an anthology. The course will also discuss technical aspects of the short story as a literary form and will investigate a number of larger contexts (modernism, the literary tradition, culture). The following works will be studied in this course: Margaret Atwood, Dancing Girls, Margaret Laurence, The Bird in the House, Clark Blaise, A North American Education, Alice Munro, Spotlits, Meaning to Tell You, Mavis Gallant, The End of the World, Sinclair Ross, The Lamp at Noon, Hugh Hood, Selected Stories, and one or two other collections. Session: Winter Day Russell Brown

ENGB27Y Canadian Fiction in English
A study of Canadian fiction in English from its origins in the eighteenth century, through the search for form and tradition in the nineteenth and early twentieth century, to the contemporary period of new exploration and consolidation. The course examine authors confronting the problem of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition. It then examines several contemporary novelists both in terms of that tradition and through close readings of specific novels. Texts: Frances Brooke, The History of Emily Montague (selections); Moodie, Roughing it in the Bush; Grove, Fruits of the Earth; Callaghan, Such is My Beloved; MacLennan, Barrier Raising; Milne, Who Has Seen the Wind; Ross, As For Me and My House; Watson, The Double Hook; Richler, St. Urban's Horseman; Laurence, The Stone Angel; Davies, Fifth Business; Lowry, Hear Us O Lord; Kroetz, The Southdown Man; Atwood, Surfacing, and one of two additional novels. Prerequisite: One full-course equivalent in English Session: Summer Evening B. Brown

ENGB31Y Modern Drama
A study of developments in English, American, and European drama in the late nineteenth and twentieth centuries. This course offers a concentrated study of important works of modern theatre from Ibsen to Pinter. Central to the course is a definition of such terms as realism, expressionism, the theatre of the absurd, epic theatre, etc., as they may be usefully applied to the work of major modern playwrights. Texts will include: Ibsen, A Doll's House and Hedda Gabler; Chekhov, The Cherry Orchard; Strindberg, Miss Julie; Brecht, Galileo; Durrenmatt, The Physicists, plays by Shaw, Beckett, Pinter, T. Williams. Prerequisite*: ENGA04 (ENGA02), ENGB11 Session: Winter Day A. Thomas

ENGB25Y Modern Poetry
An analytical study of poetry from 1900-1950. This course will explore the modern tradition in 20th century poetry, its beginnings with Yeats, Eliot and Pound and some of its many poetic variations. The interest of the course will focus on the change in poetic theory and practice that took place in the first two decades of the century and on the development of each of the poets studied. In addition, individual poems will be studied in the seminars in greater detail. Prerequisite*: ENGA01, (ENGA04), ENGB25Y, or ENGB16Y Session: Winter Day S. Namjoshi

ENGB34F The Short Story
The first half of the course will involve an introduction to the short story as a literary form with a brief history of the genre in English and American literature, and some consideration of continental authors.
ENG895Y English Literary Criticism
A study of English literary criticism from the Renaissance to the 20th Century.
This course aims to develop a systematic understanding of criticism. Some great critical texts in the English tradition will be studied in detail. Reading will include works by: Pope, Johnson, Coleridge, Shelley, Arnold, Leavis, Richards, Emerson, Frye, Burke, among others. Central issues of literary theory are raised by these works and will be discussed in relation to them.
Prerequisites: A01 (A04), A02 and two further full-course equivalents in English.
Session: Winter Day
R. Brown

ENG851Y Comprehensive Examinations
English C15Y counts as a full course in the student's Programme. It will take the form of a reading course under the direction of an advisor. Arrangements with the faculty in English and the supervisor must be made by the student before the end of the preregistration period in the spring.
Each student will design his course in consultation with his advisor. In order to identify areas where more reading may be required and possible areas for special study, a checklist of major authors is made available to students in the February of their Third Year. It is not assumed that the student, when he presents himself for examination, will have achieved complete mastery of any of the authors mentioned. On the other hand, the list, despite its length, is selective rather than exhaustive and is therefore not intended to set rigidly prescribed limits on the reading for the course. The student in his fourth year will already be familiar with many of the authors through his work in other courses, and the use he makes of the literature that year (and in the summer preceding it) will depend on his own interests, his previous studies, and discussion with his advisor.
Prerequisite: Normally three full-course equivalents in English 101 or English 102. Session: Winter Day
A. J. G. Patenail

ENG914Y Senior Essay
A scholarly project, chosen by the student, approved by the faculty in English and supervised by one faculty member. Arrangements with the faculty in English and the supervisor must be made by the student before the end of the preregistration period in the spring.
The student writes a substantial essay on a literary subject under the supervision of a member of staff. The student is responsible for locating his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed: By the last day of term the previous spring a brief statement of the area of the project, signed by the supervisor, is to be sent to Professor E. P. Vicari. By November 15th a more specific statement of the project is to be sent to Professor E. P. Vicari including the exact title of the proposed study, and a short description of its subject and method. After the topic has been approved by the discipline, a second reader will be appointed. Prerequisite: Open only to students completing the last five courses for the four-year degree who have at least three full-course equivalents in English, at least one at B-level.
Session: Winter Day
Staff

ENG915F Selected Topics in Nineteenth Century Literature
In 1982-83, the topic for this course will be "Dickens". A study of some of the major novels and some of the short works of Dickens. The teaching method will be seminar discussion. Exclusion: ENG41F/5
Prerequisite: ENG901 (ENG904), ENG902, and three further full-course equivalents in English; or one of ENG905, ENG906, ENG916
Session: Winter Evening
A. Thomas

ENG916F Selected Topics in Twentieth Century Literature
In 1982-83, the topic for this course will be "Lawrence". A detailed study of an individual author or literary movement in the 20th Century. Enrolment limited to 15.
Prerequisite: ENG904, ENG905, and two further full-course equivalents in English; or one of ENG831, ENG832, ENG833.
Session: Winter Day
M. Creelman

Courses Not Offered in 1982-83

ENGB04 English Poetry, Prose and Drama 1860-1890
Prerequisite: ENG904 (ENG905), ENG905 or ENG915

ENGB06Y Victorian Poetry
Prerequisite: ENG904 (ENG905), ENG905 or ENG915

ENGB07Y Canadian Literature in English: An Introduction

ENGB08Y American Literature: An Introduction

ENGB20F Contemporary Literature in English: Africa and the West Indies
Exclusion: ENGB29Y (ENGB29Y)

ENGB21S Contemporary Literature in English: India and Australia
Exclusion: ENGB29Y

ENGB26Y Canadian Poetry in English
Prerequisite: One full-course equivalent in English

ENGB33Y Fiction 1900-1950
Prerequisite: ENG904 (ENG905), ENG905 or ENG914

ENGC01Y Advanced Studies in Beowulf and Other Old English Poetry
Prerequisite: ENGB01

ENGC03Y Studies in Middle English Language and Literature
Prerequisite: ENGB01, ENGB02

ENGC04Y Studies in Renaissance Literature
Prerequisite: ENG904 (ENG905), ENG905 or ENG915, and three further full-course equivalents in English; or one of ENGB09, ENGB10, ENGB12
Fine Art

ENGC05Y Studies in Restoration and Eighteenth Century Literature
Prerequisites: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB04, ENGB17

ENGC06Y Studies in Nineteenth Century Literature
Prerequisites: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB05, ENGB06, ENGB15

ENGC08Y Studies in Twentieth Century Literature
Prerequisites: ENGA01 (ENGA04), ENGA02, and three further full-course equivalents in English; or one of ENGB31, ENGB32, ENGB33

ENGC11S Paradise Lost
Prerequisites: Three full-course equivalents in English, at least one at B-level

ENGC12F History of the English Language
Prerequisites: Three full-course equivalents in ENG, including one at the B-level; or two courses in ENG and one of: an appropriate HIS course, LINA01 or LINA04

JHEC13Y Advanced Seminar in Literary Theory and Criticism
Prerequisites: Three full-course equivalents in English, at least one at the B-level; or three full-course equivalents in literature and permission of instructor

ENGC24Y Topics in American Literature
Prerequisites: One of ENGA06; ENGB24; one other B-level full-course equivalent in English

ENGC28S Drama in English Canada 1920-1970
Exclusion: ENGB13
Prerequisites: Three full-course equivalents in English, at least one at the B-level; or two courses in English and one of: HISB04, a full-course equivalent in Drama

ENGC40F Women Poets
Prerequisites: Three full-course equivalents in English, at least one at B-level; or two courses in English, at least one at B-level, and one in Women's Studies

Discipline Representative: D. Holman

The Fine Art curriculum offers courses in the two complementary fields of art history and studio. The courses offered in art history deal primarily with the development of the arts in the West from classical times to the present day. The studio curriculum has been designed to develop creative thinking and provides opportunities for a first-hand acquaintance with materials, forms, and concepts of the visual arts.

Students are encouraged to take relevant courses in other disciplines in order to enhance their background knowledge and to become familiar with a variety of views of fine art.

Students who wish to supplement Scarborough offerings in art history with courses on the St. George campus should also pay careful attention to the requirements described in the calendar of the Faculty of Arts and Science. It should be noted that course offerings are not identical on both campuses. Requirements for a 300- or 400-level course on the St. George campus cannot be met at Scarborough by taking an A- and a B-level survey in the same area as the upper-level course. (See also p. 25 of this calendar.)

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

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

Specialist Programme in Fine Art History
Supervisor: R. Siebelhoff (284-3179)
Students must complete eleven full-course equivalents as follows:
1. FARAB10F/FARAB11S; FARAB12F/FARAB13S
2. One B-level full-course equivalent from each of the following areas:
   Classical
   Medieval
   Renaissance
   Baroque
   Modern (1750 to the present)
3. Three two-level full-course equivalents in art history
4. Two full-course equivalents in cognate fields selected with the approval of the Supervisor.

Major Programme in Fine Art History
Supervisor: R. Siebelhoff (284-3179)
Students must complete six full-course equivalents as follows:
1. One full-course equivalent in art history from each of the following areas:
   Classical
   Medieval
   Renaissance
   Baroque
   Modern (1750 to the present)
2. One additional full-course equivalent in art history at the C-level.

Specialist Programme in Fine Art Studio
Supervisor: D. Holman (284-3370)
Students must complete fourteen full-course equivalents: ten in studio; any two full-course equivalents in English and two additional courses in cognate disciplines.

The courses in studio must include:
1. FARAB90Y
2. FARAB72F/S; FARAB72F/S; FARAB78Y; FARAB82F/S; FARAB84Y
3. Three and one-half B-level full-course equivalents chosen from the following: FARAB74F/S; FARAB78Y; FARAB77Y; FARAB83F/S; FARAB86Y; FARAB90F/S; FARAB91F/S; FARAB82Y
4. Two C-level full-course equivalents.

Students wishing to specialize in either painting or printmaking are advised to select three and one-half B-level full-course equivalents in one or more of these areas, and then to complete two C-level courses in the chosen area. The two full-course equivalents in art history should be chosen in consultation with the Supervisor.

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

Major Programme in Fine Art Studio
Supervisor: D. Holman (284-3370)
Students must complete six full-course equivalents as follows:
1. FARAB90Y
2. FARAB72F/S; FARAB72F/S; FARAB78Y; FARAB82F/S; FARAB84Y
3. Three and one-half B-level full-course equivalents from the following: FARAB74F/S; FARAB78Y; FARAB77Y; FARAB83F/S; FARAB86Y; FARAB90F/S; FARAB91F/S; FARAB82Y
4. Two C-level full-course equivalents.

Students wishing to specialize in either painting or printmaking are advised to select three and one-half B-level full-course equivalents in one or more of these areas, and then to complete two C-level courses in the chosen area. The two full-course equivalents in art history should be chosen in consultation with the Supervisor.

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

FARA10F Ancient Art and Architecture
Art and architecture from Archaic Greece to the decline of Rome
A survey of major monuments and trends in Greece and Rome. Emphasis is on archeological, sculptural, classical architecture and sculpture, Hellenistic art, Roman Republican portraiture and Imperial architecture. One two-hour lecture per week. Visits to R.O.M. and A.G.O.
Exclusion (FARA04): Session: Winter Day

FARA11S Medieval Art
A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will consider architecture, sculpture, painting, illumination and the minor arts.
The objective of this course is to familiarize students with European artistic traditions from their origins in an early Christian, Mediterranean context through their development under the influences of classical, Byzantine, Muslim and pagan forms, to the triumphant creation of an entirely new iconographic and stylistic language which determined the nature of European art. Texts will include E. Kitzinger, Early Medieval Art; R. Krautheimer, Early Christian and Byzantine Architecture; O. von Simson, The Gothic Cathedral; and others. Two hours of slide lectures weekly and trips to the Royal Ontario Museum.
Exclusion (FARB21): Session: Winter Evening M. Gervers

FARA12F Renaissance and Baroque Art
A survey of architecture, painting and sculpture from ca. 1400 to ca. 1750. A selection will be made of the most important monuments, primarily from Italy and the Netherlands. These will include works by such artists as Leonardo da Vinci, Michelangelo, Rembrandt, Rubens and Bernini. Two hours of lectures per week; class participation is encouraged. Slides and films will be used and visits will be made to the A.G.O. and the R.O.M.
Exclusion (FARA03), (FARA04): Session: Winter Evening R. Siebelhoff

FARA13S Modern Art: 1750 to the Present
A selective study of Western European and North American painting, sculpture and architecture from the period of the French Revolution to the Second World War.
Works of art will be chosen and analyzed on the basis of their key roles in the rapid succession of artistic movements during this period. By a thorough study of these works, the course will attempt to present a comprehensive view of artistic conditions in major centres throughout the modern Western world.
Exclusion (FAR203, FARA04): Session: Winter Day L. Carney

FARB04S Archai Greek Sculpture (650-480 B.C.)
A study of the development of Greek sculpture up to the classical period.
The course follows the technical and aesthetic development of Greek monumental sculpture from its early phases in the late seventh century B.C. through its maturation in the Archaic phase (650-480 B.C.). The sculptural production of this period consists of statues of youths and maidens, usually nude or robed, dedicated to sanctuaries, low relief in stone, and architectural sculpture, which adorned the exteriors of temples and other important buildings. Even though early, due to circumstances of preservation this phase is well represented by original works, in contrast to later Greek sculpture known largely through Roman copies. There will be a two-hour weekly session during which representative sculptures will be analyzed.
Session: Winter Evening

FARB10F Carollingian and Romanesque Art and Architecture
A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterraean world.
The course will consider the major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the 12th century. Works will be considered in their geographical and historical context and in relation to the art and architecture of the later Roman Empire, Byzantium and Islam, and the art of the invasion period. The importance of monasticism and pilgrimage will also be discussed. One two-hour illustrated lecture weekly. Trips to the Royal Ontario Museum. The course texts are: E. Kitzinger, Early Medieval Art; G. Zamneck, Romanesque Art; K. J. Conant, Carolingian and Romanesque Architecture.
Exclusion (FAR111) highly recommended.
Corequisite: FARA11 highly recommended.
Session: Winter Day M. Gervers

FARB19F Michelangelo
A survey of his activity in architecture, sculpture and painting. Study will focus on large decorative works and works like the Sistine ceiling, the tomb of Julius II and the Medici Chapel. The course will emphasize special aspects of Michelangelo's ideas, above all the relationship of the artist with neo-platonism and with the religious trends of his time. Some time will also be spent on Michelangelo's theory of art and on his poetry.
Exclusion (FARB32): Session: Winter Day G. Scavizzi

FARB27F Baroque Painting in Southern Europe 1600-1650
A survey of the major pictorial trends in Italy and France.
The course will concentrate on three main movements: the realism of Caravaggio and his followers (including the young Velazquez); the classicism of A. Carracci and N. Poussin; and the purely baroque style of P.P. Rubens and P. da Cortona. Important components of the culture of the time, such as the development of genre painting (landscape, still life, etc.) and the birth of a classicist art theory will also be discussed. Textbooks: A. Blunt, Art and Architecture in France 1500-1700. Harmondsworth 1954; R. Wittkower, Art and Architecture in Italy 1600-1750. Harmondsworth 1958.
Exclusions (FARB39Y, FARB44Y): Session: Winter evening G. Scavizzi

FARB28Y Baroque Painting in the Netherlands
An examination of portraiture, landscape and still life in the Dutch Republic from ca. 1600 to ca. 1675.
The first few lectures will deal with the geographical and topographical situation around 1600 and will proceed with a historical survey of the area during the seventeenth century. The class will then explore the origins of Dutch seventeenth century painting by looking at innovations which were made in Flar ders and Italy in the late sixteenth century and which prepared the way for the Utrecht Caravaggists. The approach towards the material will be problem-oriented. We will evaluate attributions on documental, stylistic and iconographic basis, while attempting to study the works of art of the different artists in an acceptable chronological order. The course consists of two hours of lectures per week with class participation encouraged. Slides and films will be used, and there will be a visit to the A.G.O. The course text is: J. Rosenberg, Slive and Ter Kuile, Dutch Art and Architecture 1600-1650, Harmondsworth 1972 (a paperback edition in The Pelican History of Art series). Students will be provided with a bibliography.
Exclusion (FARB17): Session: Winter Day R. Siebelhoff

FARB30Y From David to Delacroix
Painting and sculpture produced in France between the Revolution of 1789 and 1848.
Two prominent artistic movements known as Neo-Classicism and Romanticism will be traced. Special emphasis will be placed on the developments in Paris with its principal painter David and its sculptors: Germain, Ireage, Delacroix. Interpretations of several subject categories will be studied, in particular historical subjects, contemporary political events and portraitures. From the viewpoint of style, the emphasis will be placed on different approaches by the Neo-Classists and the Romantics to identical subjects. The development of landscape painting will be studied as well. Two hours of lectures per week with class participation encouraged. Use of slides and films, visits to the Art Gallery of Ontario and the Albright-Knox Gallery.
Exclusion (FARB13): Session: Winter Day R. Siebelhoff

FARB43S Impressionism
The development of Impressionism and its impact on modern painting. The course will commence with an exploration of sixteen century landscape painting, thus establishing the main sources of Impressionism. Thereafter it will focus on those aspects of the work of Monet and Degas which are essential to the movement. Of equal importance are contem-
porary theories of colour. The background of the individual members of the Impressionist group will be traced, followed by a selective study of the artists during the last decade of the century. There will be two hours of lectures per week with class participation encouraged. Use of slides and films, visits to the AGO, and the Albright-Knox Gallery in Buffalo. Bibliography will include John Rewald, *The History of Impressionism*, N.Y.: MOMA, 1946. Exclusion: FAR814 (FAR851) Session: Winter Evening R. Siebelhoff

**FAR845** Art from 1900-1950 A survey of twentieth century European art and architecture. Cubism and Fauvism in France, the German Expressionists, the rise of abstract painting and sculpture, constructivism and the Bauhaus; Dada and Surrealism, the development of modern architecture. These movements will be discussed in relation to the careers of major painters, sculptors and architects. The course will consist of weekly two-hour slide lecture and a trip to the Albright-Knox Gallery in Buffalo. Exclusion: FAR829Y Pre- or Corequisite: FAR13 recommended but not required Session: Winter Evening L. Carney

**FAR851** The Canadian Landscape The course will be an exploration of how Canadian artists' perceptions of the landscape as well as their means of rendering them changed during the period 1850-1950. The study begins with a group of Montreal painters who develop under the influences of photography and of German Romantic painting; artists from this group eventually produce important work in both the East and the West in the post-Confederation period. Changes will be evident in artists' concepts of nationalism as modern tendencies shape the work of the Group of Seven, Emily Carr, David Milne and others, and as regional centres of painting develop outside Quebec and Ontario. There will be weekly slide lectures as well as individual and class visits to relevant exhibitions within travelling distance. Session: Winter day L. Carney

**FAR829** Recent Canadian Art An introduction to the work of major Canadian artists, chiefly painters and sculptors, from the last three decades. Each weekly session will be devoted to the work of either one or two artists of national importance. The course will also examine these painters' and sculptors' links with traditions in art. The class will meet for a two-hour slide lecture each week. Taped interviews and films will also be used. The bibliography will consist mostly of exhibition catalogues, and will be discussed in class. Prerequisite: Another course in modern art is recommended but not required as preparation. Session: Winter Day L. Carney

**FAR825** Supervised Reading Prerequisite: At least one B-level full-course equivalent in art history; permission of instructor must be obtained by the first week of classes. A reading knowledge of a second language is recommended. Session: Winter Day R. Siebelhoff

**FAR829** Advanced Studies in the High Renaissance A survey of the various interpretations of Manierism provided by art historians of the 20th century, starting with the debate between Peysner and Weisbach and continuing with the classical studies of W. Friedlaender. Hocke, Brighanti, Clark, Bousquet, Shearman and Hauser. The artists on whom attention will be focused are Raphael, Pontormo, Cellini, Parmigianino, Michelangelo, El Greco. Textbook: F. Bousquet, Manierism, New York, 1964. Prerequisite: One full-course equivalent at the B level in art history. Session: Winter Day G. Scavizzi

**FAR810** Italian Renaissance Architecture Architecture and architectural theory in Italy between 1400 and 1550. Emphasis on L.B. Alberti as humanist architect, and the theoretician of visual art. Sections on his treatise on architecture will be discussed in relation to his new concepts of town planning and to the aesthetic principles of the early and high Renaissance. His architecture will be studied from the double point of view of its relation to classical antiquity and its influence on other Renaissance architects. Prerequisite: One FCE at the B-level, by permission of instructor Session: Winter Day H. Lücke

**FAR816** Expressionist Trends in Western Art from Van Gogh to Jackson Pollock An examination of such major figures among so-called expressionist painters as Van Gogh, Ensor, Munch, the Fauves, Kirchner, Nolde, Kandinsky, and the New York School. After an introductory section each student will develop one topic in collaboration with the instructor; this will be presented in seminar and finally in written form. Two-hour seminar per week. Pre- or Corequisite: FAR845 or FAR846 and at least one additional half-course in art history. Session: Winter day L. Carney

**FAR870** Two and Three Dimensional Design An introduction to the basic principles of visual design for the student interested in the visual arts, but not intending to pursue the Specialist Programmes. The student will investigate basic principles in design and composition, developing a familiarity with the verbal and visual vocabulary. There will be lectures, demonstrations and group critiques. The student will work in class and be given weekly assignments related to that work. Three hours per week. Limited enrolment: 20 Session: Winter Day, Winter Evening B. Hall

**FAR871** Colour An introduction to the interaction of colour in the visual arts for the student with an interest in the visual arts, but who is not intending to pursue the Specialist Programmes. The student will be introduced to the relationship of colour and light, developing a familiarity with the methods of controlling colour effects. There will be lectures, demonstrations and group critiques. The student will work in class with paints and coloured papers and will be given weekly assignments related to that work. Three hours per week. Limited enrolment: 20 Session: Winter Day, Winter Evening B. Hall

**FAR890** Foundation Studies in Studio An introduction to basic problems in design and colour and the relation of these problems to the visual arts. There will be an emphasis in this class on each student's exploration and investigation of these problems. There will be lectures, demonstrations and group critiques. Exclusion: FAR870 and FAR871 Pre-requisite: Students may pre-register but will not be admitted to the course unless granted permission of the instructor during the first week of classes. A portfolio must be submitted at this time. **Students who have completed FAR870 and FAR871 and who wish to enter the Specialist Programme will be given due consideration on submission of a portfolio on the last day of classes.** **Students who are not accepted into FAR890 will be transferred into FAR870 and FAR871 if they so wish.** Session: Winter Day, Winter Evening J. Hogestyn, B. Hall
FAR87OF Introductory Drawing
An introductory course for students wishing to explore the techniques and concepts of drawing. This course is designed to introduce the student to the potentials inherent in drawing. Three hours per week of studio work including group and individual critiques. The student will be responsible for attending every class, keeping a definitive sketchbook, and submitting a series of finished drawings at the end of term. Enrolment limited according to space available and permission of instructor. Lab fee $20.00
Prerequisite: FAR890 or permission of instructor.
Session: Winter Day
J. Hoogstraten

FAR87YF Introduction to Painting
An introduction to the principles and techniques of painting. Emphasis will be placed on experimentation and the investigation of the possibilities of painting.
There will be both group and individual critiques held at appropriate intervals during the course. Students who lack the prerequisite but have some painting experience are invited to apply for permission from the instructor. Enrolment limited according to space available and permission of instructor.
Prerequisite: FAR890 or permission of instructor.
Session: Winter Evening
J. Hoogstraten

FAR87A Intermediate Painting I
A course designed to develop competence in contemporary materials with an emphasis on understanding recent attitudes in painting.
Limited enrollment: 15
Prerequisite: FAR870 or permission of instructor.
Session: Summer Day - Summer Arts Program
J. Hoogstraten

FAR87B Intermediate Painting II
A continuation of FAR876, designed for the student with a demonstrated competence in materials. This course allows the student to explore his or her own direction in painting. It encourages personal experimentation with paint and involves discussion of individual and group problems. Limited enrollment: 15
Prerequisite: FAR876 or permission of instructor.
Session: Summer Day - Summer Arts Program
B. Hall

FAR880F Drawing from the Figure I
An introduction to the process of developing drawing as a basis for further exploration. The course will develop concepts in drawing using the figure as subject matter. The class will meet three hours per week for the studio and as personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. The final portfolio must include all the drawings done for projects, drawings done from the model, and the sketchbook(s). Enrolment limited according to space available and permission of instructor. Lab fee $40.00
Prerequisite: FAR890 or permission of instructor.
Session: Winter Day
D. Holman

FAR881F Drawing from the Figure II
A continuation of FAR880. Students who have not taken FAR880 should consult the supervisor. Lab fee $40.00. Enrolment limited according to space available and permission of instructor.
Session: Winter Day
B. Hall

FAR882F Introduction to Lithography
An introduction to lithography including printing of a detailed investigation of materials and techniques.
The course will include practical demonstrations and lectures explaining and demonstrating the artistic nature of this printmaking technique. Students will be expected to draw and execute several lithographs. Three hours per week of studio work. Lab fee $45.00. Limited enrollment: 10
Prerequisite: FAR890; FAR72 or permission of instructor.
Session: Winter Evening
D. Holman

FAR883S Intermediate Lithography
An extension of FAR882. The objective of the course is to further develop the art of stone lithography. Paperwork and content are as for FAR882. Lab fee $45.00. Limited enrollment: 10
Prerequisite: FAR882 or permission of instructor.
Session: Winter Evening
D. Holman

FAR884A Introduction to Etching
An introduction to the process of etching and relief printing. The course will develop concepts in drawing using the figure as subject matter. The class will meet three hours per week for the studio and as personal and group critiques. The student will be responsible for attending every class, keeping a definitive sketchbook and producing a number of finished drawings. Lab fee $40.00 (as available) for use of space available and permission of instructor.
Prerequisite: FAR874 or permission of instructor.
Session: Winter Day
D. Holman

FAR885F Supervised Studies in Studio: Intermediate Level
These courses may be in any of the fields of drawing, painting, and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. The courses are intended for students who can demonstrate a need to pursue further study in any of the above areas. Students are required to meet with instructors on a regular basis for critiques of work in progress.
The proposal submitted to the instructor must specify as clearly as possible the nature of research and experimentation, number of works to be completed, deadlines for projects, and criteria for evaluating the work. Students must be prepared to discuss their own work, and to pursue areas of research determined in consultation with the instructors. Since these courses usually lead to independent study courses at the C-level, students might consider how they fit into a projected programme of study. Students are also advised to speak to instructors as far in advance as possible of submitting proposals.
Limited enrollment: 3
Prerequisite: FAR890; FAR72 or permission of instructor.
Session: Winter Day
D. Holman, J. Hoogstraten

FAR887Y Introduction to Sculpture Concepts
An introduction to the basic concepts of sculpture. This course will familiarize the student with current explorations of space, time, motion and sound. Practicing artists will speak about their concerns in a lecture-discussion format. Students will be required to produce a number of sculptures, some responses to the artists who will speak. Texts will include Rosalind E. Krauss' "Passages in Modern Sculpture" and Gregory Battcock's "Minimal Art: A Critical Anthology." Limited enrollment: 15
Prerequisite: FAR890 or permission of instructor.
Session: Winter Day
J. Hoogstraten

FARC21Y Advanced Studio: Individual Study in Painting
This course is open to students who have completed the requirements for the major in studio art and who wish to pursue a more advanced studio practice. Students must design a program of study that includes the development of a personal body of work, with a minimum of 15 credits. The program will be developed in consultation with an instructor and must be approved by the Department Chair. Lab fee $45.00. Limited enrollment: 15
Prerequisite: FAR884 or permission of instructor.
Session: Summer Day - Summer Arts Program
O. Tamasauskas, (R. Holman)

FARC31Y Advanced Studio: Individual Study in Sculpture
This course is open to students who have completed the requirements for the major in studio art and who wish to pursue a more advanced studio practice. Students must design a program of study that includes the development of a personal body of work, with a minimum of 15 credits. The program will be developed in consultation with an instructor and must be approved by the Department Chair. Lab fee $45.00. Limited enrollment: 15
Prerequisite: FAR884 or permission of instructor.
Session: Summer Day - Summer Arts Program
O. Tamasauskas, (R. Holman)
The student will have an opportunity to work independently while receiving ongoing, advanced criticism from the instructors. The content of this course, methods to be used, and evaluation of work are determined co-operatively by the student and the instructors. Limited enrollment: 5.
Prerequisite: Permission of instructor must be obtained by the first week of classes. Session: Winter Day
D. Holman

FARC 220Y Advanced Studio: Individual Study in Printmaking
The purpose of this course is to give the promising student an opportunity to work independently while receiving advanced criticism. The content, method and evaluation of the course will be decided upon by both the student and instructor. Limited enrollment: 5.
Prerequisite: Permission of instructor must be obtained by the first week of classes. Session: Winter Day
D. Holman

FARC 240F FARC 240S Independent Studies in Studio: Advanced Level
These courses may be in any one of the fields of drawing, painting and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for the student who can demonstrate the need to pursue independent study in one of the above areas. Students are required to meet with the instructor at appointed times; however, they are expected to work independently. Content, method and evaluation to be planned in co-operation with instructor. Limited enrollment: 5.
Prerequisite: At least one B-level course in the field of study, a portfolio demonstrating proficiency in this field; and permission of instructor which is based on the evaluation of the portfolio. Session: Winter Day
D. Holman

Courses Not Offered in 1982-83

FARB 602S Wallpainting in Ancient Egypt and the Aegean Bronze Age (ca. 3200 B.C.-ca. 1200 B.C.)
Exclusion: (FARB 42)
FARB 605S Classical Greek Sculpture (480-300 B.C.)
FARB 605F Ancient Rome
FARB 611F Gothic Architecture
FARB 615F Renaissance in Italy
Exclusion: (FARB 61) (FARB 63)
FARB 616Y The Arts in Northern Europe Ca. 1400-1500
Exclusion: (FARB 22)
FARB 630S Frans Hals, Rembrandt and Vermeer
Exclusion: (FARB 45)
FARB 646F Gauguin, Seurat, Van Gogh, Cézanne
Exclusion: (FARB 26)
FARB 647F Nineteenth Century Realism
FARB 644F New York in the Twentieth Century
Prerequisite: Recommended preparation or companion courses: FARA 41 or FARB 48
FARB 650Y The Arts in Canada: 1670-1960
Exclusion: (FARB 20)
FARB 618S Drawing from the Figure II
Prerequisite: FARB 74 or permission of instructor

French

FARC 145 Art Around 1900
Prerequisite: Any B-level full-course equivalent in art history, preferably in the nineteenth century
Exclusion: (FARB 52)
FARC 155 Cubism and Related Movements in Painting
Prerequisite: FARB 46 or FARB 48, and at least one additional half-course in art history

Discipline Representative: P. Moes
The courses offered in French are designed primarily for students with Grade 13 French who wish to continue their study of the language and of the literature of France and French Canada. Students without Grade 13 French or an equivalent background who wish to qualify for FARB 46 or simply to begin their study of the subject, will find opportunities in FFR A-level language courses offered throughout the year and in the summer at the Scarborough Language Institute. FRRB 46 serves to consolidate the previous experience of students in the understanding and use of the language.
Courses in the French language are now available in two distinct modes:
- The regular courses, offered during the Winter session, which provide language instruction on a three- to four-hour per week basis (A06Y, A16Y, B06Y, B16Y, and C06Y).
- The immersion courses, available in the Summer term and which are described in detail in the 1982 Scarborough Language Institute Information Package.

 Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Specialist Programme in French are invited to consider taking both FRRB 46 and FRRB 48 in their first year, or, if they enrol in intensive courses, to combine FRRB 46, FRRB 48 and FRRB 42. They may then choose courses from within the following groups:
1. the main trends of French and French Canadian literature;
2. the genres: poetry, theatre and novel in various periods;
3. advanced language;
4. language practice courses. Students should also consult entries under Language and Literature and Modern Languages in the College Calendar.

Students intending to pursue their studies in French on the graduate level are advised that a knowledge of Latin is required by the Graduate Department of French of the University of Toronto and by most graduate departments of French.
Specialist Programme in French
Supervisor: S. Mittler (284-3334)
Students should complete twelve full-course equivalents, including:
1. one sequence FRE801Y (FRE801Y, FRE816Y), FRE405Y (FRE405Y), and FRE607Y (FRE607Y), (except where substitution of other French courses is permitted for students with special proficiency in the French language)
2. one of the following courses: FRE205, FRE342F-43S, FRE34B4Y, FRE309Y
3. three full-course equivalents in French and French Canadian Literature, one of which should deal with a period prior to 1800 and one with a period after 1800
4. four full-course equivalents at C-level (or from the 300 and 400 series courses offered on the St. George Campus). Both FRE408Y (FRE408Y) and supervised reading courses may count toward this requirement.
5. It is recommended that the student include in his/her Program one full-course equivalent from the series FRE502-507, FRE508 (Supervised Reading) involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2) or (4) above.) Normally, no more than two full-course equivalents in the area of supervised reading may be credited for requirements of the Specialist Programme.
6. Two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor. The following may not count toward a Specialist Programme:
   1. any A-level French course except (FRE401Y) and (FRE402)
   2. more than two courses from the series FRE45Y to FRE459. (Specialized seminars) offered on the St. George Campus.

Major Programme in French Language and Literature
Supervisor: S. Mittler (284-3334)
Students should complete seven full-course equivalents, including:
1. FRE801Y (FRE801Y, FRE816Y, FRE801Y, FRE165Y, FRE607Y, FRE607Y), and FRE607Y (FRE607Y) (except where substitution of other French courses is permitted for students with special proficiency in the French language)
3. two other full-course equivalents in French, only one of which may be chosen from group (2)
4. Students may include in their Program a maximum of one supervised reading course. The following may not count toward a Major Programme in French Language:
   1. any A-level French course except (FRE401Y) and (FRE402)
   2. one of the following courses: FRE205, FRE342F-43S, FRE34B4Y, FRE309Y
   3. three full-course equivalents from the remaining courses in French and French Canadian literature and civilization
5. one additional full-course equivalent in French, to be chosen in the area either of study language or of literature and civilization
6. students may include in their Major Programme a maximum of one supervised reading course. The following may not count toward a Major Programme in French Language:
   1. any A-level French course except (FRE401Y) and (FRE402)
   2. Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of French. Equivalent courses from the discipline’s offerings will be substituted. Students are strongly advised to discuss their program as soon as possible with the Supervisor.
7. Students intending to pursue their studies in French on the graduate level are advised that this Program does not qualify them for admission to the Graduate Department of French at this University.

FRE06Y Introductory French
A basic course in spoken and written French for students with little or no background in the language.
Four class hours and one language laboratory hour per week. Students wishing to take this course will be asked to take a placement test to identify those who may have the necessary competence.
Exclusion: Grade 13 French or equivalent
Prerequisites: FRE801Y. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes.
Session: Winter Day 3, Winter Day 4, 6 Mignier and staff

FRE07S Elementary Conversation I
An intensive course in spoken French through controlled situational oral work. Offered only in the immersion program of the Scarborough Language Institute. This course consists of oral class work and participation in a choice of cultural and/or artistic activities involving the use of the French language. Information will be available at a later date in Room H332A.
Exclusion: Grade 13 French or equivalent.
Co-requisite: FRE401Y
Session: Winter Day 3, Winter Day 4 (see the 1982 Scarborough Language Institute Information Package)
L. Mignault

FRE16B Elementary French
Spoken and written French studies for students with some background in the language but without Grade 13 High School French. This course using an innovative teaching approach which stresses effective oral communication skills while developing reading and writing skills. Practice is given priority over formal grammar studies.
Exclusion: Grade 13 French or equivalent.
Prerequisites: FRE401Y. For those students who lack the prerequisite, admission to this course is through a placement test to be held soon after the beginning of classes.
Session: Summer Day 3, (see the 1982 Scarborough Language Institute Information Package)
L. Mignault

FRE16Y Elementary French
Spoken and written French studies for students with some background in the language but without Grade 13 High School French.
Four class hours per week are devoted to the study of written and spoken French. There is also one laboratory period a week specifically designed for oral-aural practice. This course prepares students for entrance to FRE080 Textbooks: Elan, by Y. Lenard, and accompanying Cahier de laboratoire. Regular class attendance and participation are essential.
Exclusion: Grade 13 French or equivalent
Prerequisites: FRE401Y. For those students who lack the prerequisite, admission to this course is through a placement test, to be held soon after the beginning of classes.
Session: Winter Day 3, Winter Day 4, 6 Mignier and staff

FRE08Y Language Practice I
This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level
This is an intensive course designed to bring students to the level of entering FREN16 in one term rather than two. Active and varied methods are used in an attempt to free students from the inhibitions frequently associated with language learning and to stimulate their interest and participation. The class meets for grammar review, vocabulary-building exercises, reading and discussion of texts, debates, and oral exercises that class and instructor may choose to devise.

Exclusion: (FREN01), native or near-native proficiency in French
Prerequisite: Grade 13 French or FREN16 or (FREN00) equivalent
Session: Summer Day (see the 1982 Scarborougth Language Institute Information Package)
L. Mignault

FREN16 Language Practice I
This course is designed to help students reinforce and develop those language skills (writing, reading, understanding and speaking) which are necessary for taking advantage of upper level courses.

Three hours per week of grammar review, vocabulary-building exercises, reading and discussion of texts representing various cultural background. The course is concerned with developing fluency, accuracy, and style. It is open to native speakers of French.

Exclusion: (FREN01), native or near-native proficiency in French
Prerequisite: Grade 13 French or FREN16 or (FREN00) equivalent
Session: Winter Day, Winter Evening
L. E. Doucette and staff

FREN20Y Language Practice II
A continuation of FREN206 with a focus on oral practice and readings and language laboratory work.

Exclusion: (FREN01), native or near-native proficiency in French
Prerequisite: FREN206 or FREN16 or (FREN00) equivalent
Session: Winter Day, Winter Evening
L. E. Doucette and staff

FREN21Y Language Practice II
A continuation of FREN210 with a focus on oral practice and readings and language laboratory work.

Exclusion: (FREN01), native or near-native proficiency in French
Prerequisite: FREN210 or FREN16 or (FREN00) equivalent
Session: Winter Day, Winter Evening
L. E. Doucette and staff

FREN20S French Drama of the Eighteenth Century
A study of some of the most important plays of the period with special emphasis on the concept of drama, its styles and techniques, which illustrate.

The best known plays of the three major theatrical genres—tragedy, comedy, and the so-called drame bourgeois—form the core of the course. In addition to reading, analyzing, discussing, and appreciating them in their eighteenth century context, the class will look at plays as practical demonstrations of certain theories concerning the nature of theatre, and what is meant to communicate. In this way questions will be raised in their totality, that is, as more than merely "literature."

In the past required texts have included Turcaret (Lesage), Faust (Voltaire), le Mariage de Figaro ( Beaumarchais) and others.

Two hours a week of lectures, discussion periods, student presentations.
Prerequisite: FREN206 (FREN01)
Session: Winter Day
J. Curtis

FREN30F French Theatre of the Early Modern Period
A study of trends in French drama from the late nineteenth century to the Second World War.

The course deals with such topics as the realist and surrealistic movements, "poetic" drama, and the re-creation of myth. Authors include Beauce, Jany, Caudieu, Cocteau, Giraudoux, Anouilh, and Montherlant. Students are urged to consider taking the companion course FREN31.

Two hours a week, lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.
Prerequisite: FREN206 (FREN01)
Session: Winter Day
B. Bertrand-Jennings

FREN31S Contemporary French Theatre: The Theatre and the Absurd
A study of the linguistic structure of French and of dramatic theory from the beginning of the twentieth century.

The play is a vehicle for the expression of the philosophy of the "absurd" and its influence in modern French theatre.

Authors studied will include Camus, Sartre, Ionesco, Beckett, Genet and Pinter. Students are urged to consider taking the companion course FREN30.

Two hours a week, lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged.
Prerequisite: FREN206 (FREN01)
Session: Winter Evening
J. Curtis
FREB 34Y From Romanticism to Naturalism
Man's vision of himself and of society in the nineteenth century. Literary study of the major novelists and poets: Stendhal, Balzac, Flaubert and Zola.

Two hours per week. The course will be conducted as a seminar, with active participation of the students. Highly encouraged.

Exclusion: (FREB 33); (FREB 30)
Prerequisite: FREB 06 (FREA 01)
Session: Winter Evening J. Curtis

FREB 36F French-Canadian Novel to 1945
A study of major French-Canadian novels from the mid-nineteenth century to the end of the Second World War.

FREB 36 is intended for the general student of French as well as for the specialist. Much more than its companion course, FREB 37 (which students successfully completing FREB 36 are strongly advised to take), it deals with historical, cultural and social developments in French Canada. Some knowledge of Canadian history in the period in question is, therefore, a decided asset.

Prerequisite: FREB 06 (FREA 01)
Session: Winter Day L. E. Doucette

FREB 37S French-Canadian Novel since 1945
A study of prose fiction in Quebec since 1945. Some knowledge of Canadian history since the Second World War is very useful.

Apart from introductory lectures during the first week or two of classes, this course follows a discussion-seminar format. Two hours each week.

Prerequisite: FREB 06 (FREA 01)
Session: Winter Day L. E. Doucette

FREB 39S Workshop in Modern French Theatre
A study of French theatre in the 20th century. This will result in the production of at least one play.

Prerequisite: FREB 16 (FREB 01) or equivalent language ability.
Session: Summer Day (see the 1982 Scarborough Language Institute Information Package) L. Mignault

FREB 41F French Classicism: The Theatre
A study of the development of classicism in both tragedy and comedy in the seventeenth century, with emphasis on themes and dramatic structure as seen through the major plays of the period.

The course concentrates on a few selected plays by Corneille, Molière and Racine, considered both in the context of the plays and as the literary expressions of a specific society.

Classes will be conducted as seminars in French.

FREB 40 is the recommended companion course.
Prerequisite: FREB 06 (FREA 01)
Session: Winter Evening J. Curtis

FREB 48Y Theoretical and Practical Phonetics
A study of modern French pronunciation. This course will comprise the following: general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation: analysis of a variety of recorded material, including recordings by students themselves.

Prerequisite: FREB 06 (FREA 01)
Session: Winter Evening G. Tremblay

FREB 70Y The Twentieth Century: In Search of the Novel
A study of writers primarily concerned with aesthetic and psychological questions in narrative fiction.

The course looks at the works of such authors as Gide, Proust, Breton, Mauriac, Oe, line, Queneau, Sartre and Beckett.

Different approaches to problems of morality, society and human psychology, traditional and less traditional vocabulary and the spatial and temporal architecture of the novel will be examined.

The material studied should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should consult Prof. S. Mittler.

Prerequisite: One B-level course in the group FREB 16 - FREB 81, excluding FREB 17.
Session: Winter Day L. E. Doucette

FREB 22Y Introduction to Medieval French Language and Literature
An introduction to old French language and the study of representative works in the following genres: epic, courtly and bourgeois literature.

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

Two hours a week for lectures and discussion.
Prerequisite: One B-level course in the group FREB 16 - FREB 81.
Session: Winter Day L. E. Doucette

FREB 23S The French Novel in the Seventeenth Century
The evolution of the seventeenth century novel as a literary form and as a social phenomenon. After an outline of the historical and literary background of the seventeenth century novel, theories (and theoricians) of the novel in the classical period will be discussed. In the study of the forms of the seventeenth century novel, the following works will be dealt with in some detail:
Sorel, Histoire comique de Francion, Scarron, Le Roman comique, Furetière, Le Roman bourgeois, Mme de Lafayette, La Princesse de Clèves.

The teaching method will involve lectures and discussion.
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17. FREQ640 and/or FREQ641 are strongly recommended as background courses.
Session: Winter Day
S. Mittler

Courses Not Offered in 1982-83

FREC10S  Textual Analysis
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17

FREC25Y  Literature of the Renaissance
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17

FREC33S  French Civilization: Continuity and Change
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17; or permission of instructor.

FREC36S  French-Canadian Poetry
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17

FREC40Y  Modern French Poetry from Baudelaire to Valéry
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17

Geography

Assistant Chairman: E.C. Reph

The Geography curriculum includes courses on diverse topics having to do with the development of landforms, the evolution and experience of urban and rural landscapes, the management of natural resources, and the spatial expression of economic processes. It therefore offers to students a variety of potential themes which can be followed either separately or in combination toward a B.A. or B.Sc. degree.

The Specialist and Major Programmes in Geography are designed to give students the flexibility to choose courses that relate to their own interests while providing coherence and direction in course sequences and combinations. These Programmes are intended to develop not only geographical concepts but also skills such as cartography and statistical analysis. They provide students with a sound knowledge of the discipline and with a good basis for a career, whether in planning, business, teaching or government agencies.

Specialist Programme in Geography
Supervisor: A. G. Price (264-339)

The Specialist Programme in Geography offers the opportunity to explore some aspect of the discipline in considerable depth without sacrificing the breadth that characterises the discipline.

It is possible to complete a Specialist Programme in Geography by following one of two options.

The Human Settlements option comprises courses that have to do especially with urban and rural development and planning, while the Environmental Geography option is concerned with environmental management issues and the physical systems which underlie them. These two options are by no means mutually exclusive; several courses are listed in both of them and students will be encouraged to take courses from the option other than the one they have selected. However, students who wish to take a B.Sc. must follow the Environmental Geography option.

FREC24F  The French Novel in the Eighteenth Century
An advanced course specializing in the detailed analysis of the major novels of the period.
Although it is not essential, students who have taken FREQ24 will find that this course provides them with a useful background. Since the novel is not in our period a very clearly developed literary genre, the emphasis will fall on the variety and evolution of its form and subject matter with reference to the major novels of the period from Gli Bias to Paul et Virginie. The reading list will include texts by Lesage, Voltaire, Montesquieu, Prévost, Diderot, Rousseau, Choderlos de Laclos and Bernard de Saint-Pierre.
Two one-hour classes a week with lectures, discussion periods, and student presentations.
Prerequisite: One B-level course in the group FREQ16-FREQ81, excluding FREQ17
Session: Winter Day
P. Moes

FREC34S  Cross-currents in Contemporary French Fiction
An examination of the varied thematic and technical perspectives open to contemporary novelists.
French writers of the second half of the twentieth century, heir to key innovations in their treatment of reality, literary symbolism, or the importance of history, cannot be assigned a group label but rather express and develop these inherited trends in both form and content, sometimes in novel ways. We will look at diverse and high fantasy in R. Queneau, Les Fleurs bleues, individual crisis and solidarity with a foreign people in A. Pétrie de Mandarques, La marge, the trial of a father and his entire culture in P. Modiano, Les boulevards de Cézanne, the loves and labynths of a Corsican town in A. Pinaldi, Les dames de France, and three crossed destinies in Didier Decoin, John Ferrier.

FREC649Y  The Twentieth Century: The Search for Identity
Exclusion: FREQ635

FREC80F  Images of Women in French Literature
Exclusion: HUMB42
Prerequisite: FREQ608 (FREQ601)

FREC81S  Women's Consciousness in French Literature
Prerequisite: FREQ608 (FREQ601)
OPTION A
Human Settlements
The requirements for this Programme are twelve full-course equivalents as follows:
1. GGRAA04Y and GGRA05Y
2. GGRB02Y or GGRB25Y
3. GGRD01Y and GGRD12F/S
4. At least three full-course equivalents from GGRB01Y, GGRB05Y, GGRB13Y, GGRB17Y, GGRB24Y, GGRB27F/GGRB28S, GGRB29Y, and whichever of GGRB02Y or GGRB25Y has not been taken under requirement 2 above.
5. At least two and one-half full-course equivalents from GGRC04F/S, GGRC13F/S, GGRC16F/S, GGRC20F/S, GGRC24F/S, GGRC31F/S, GGRC33Y, GGRC34F/S.
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

OPTION B
Environmental Geography
The requirements for this Programme are twelve full-course equivalents as follows:
1. GGRAA04Y and GGRA05Y
2. GGRB02Y or GGRB25Y
3. GGRD01Y and GGRD12F/S
4. At least three full-course equivalents from GGRB01Y, GGRB03Y, GGRB07Y, or GGRB15Y, GGRB19Y, GGRB24Y, GGRB29Y, and whichever of GGRB02Y or GGRB25Y has not been taken under requirement 2 above.
5. At least two and one-half full-course equivalents from GGRC05F/S, GGRC14F/S, GGRC25F/S, GGRC28Y, GGRC29F/S, GGRC30F/S, GGRC32F/S and either GGRB07Y or GGRB15Y, whichever has not been taken under requirement 3 above.
6. Two full-course equivalents in disciplines other than Geography agreed upon in consultation with the Supervisor.

Major Programme in Geography
Supervisor: A. G. Price (284-3301)
The Programme aims to introduce students to the fundamentals of the discipline, and to provide the opportunity to explore some of the wide range of specialized aspects of the field. The Programme may be taken as a single concentration within a one-year degree or in combination with another Main Programme in a related subject area such as another Social Science, Biology or History. It is also an appropriate supplement to Specialist Programmes in these areas.
The Programme requires completion of the following seven courses:
1. GGRAA04Y and GGRA05Y
2. GGRB05Y (GGRB02Y may be substituted)
3. At least two full-course equivalents from: GGRB01Y or GGRB24Y
   GGRB03Y or GGRB19Y
   GGRB05Y or GGRB27F/GGRB28S
   GGRB13Y or GGRB17Y
   GGRB24Y or GGRB15Y
   GGRB29Y
4. At least two full-course equivalents from:
   whichever of GGRB07Y or GGRB15 has not been taken under requirement 3

GGRA04Y The Nature of Human Geography
Comparison of the major approaches to human geography - historical process, spatial organization, resources and environment, landscape and culture.
The course aims to identify and discuss some of the fundamental concepts of human geography, and to demonstrate the nature of the major approaches to the subject. The course consists of four main sections: (i) human settlements and urbanization, (ii) spatial patterns and processes, (iii) environmental and resource use and abuse, and (iv) modern landscapes and urban design.
Session: Winter Day
M. F. Burch, E. C. Relph

GGRA05Y Introduction to Physical Geography
An introduction to the principles of physical geography. The course is designed for specialists in geography but is also suitable for non-specialists interested in obtaining some introduction to physical geography. The course is designed to introduce students to the basic physical environmental systems operating at the surface of the earth, the interactions between systems and the impact of man upon such systems.
The content should be of general interest to students in the physical and life sciences.
Session: Winter Day
R. Bryan and A. G. Price

GGRB01Y Geography of Resources
Problems of resource use with circular reference to their environmental setting: (i) definition and classification of resources, (ii) special problems relating to agricultural resources, (iii) specific aspects of the use of non-agricultural resources, and (iv) an examination of the use, misuse and abuse of resources.
Resource issues are examined in two broad contexts: global resource problems and policies; themes and problems in Canadian resource management. The specific subjects discussed include: the world food problem; global patterns of energy consumption and production; use and management of the earth's minerals; international responses to resource inequalities; water development and management in Canada; pollution, conservation, environment and the law; problems of land management in Canada.
Two hours of Lectures per week. Prerequisite: GGRA04 or GGRA05.
Session: Winter Day

GGRB02Y Analytical and Quantitative Methods in Geography
An introduction to classical and Bayesian probability theory, frequency and sampling distributions, population parameters and statistical estimation, hypothesis testing, correlation and regression, sampling theory, and analysis of variance. Applications to geographic problems include spatial sampling, trend surface analysis, evaluation of spatial patterns, and spatial autocorrelation. Elementary computer programming is also included.
Two hours of lectures, and two hours of labs per week.
Exclusion: ECOB11, PSYB07, STAB2B, STAB57
Prerequisite: GGRA04 or GGRA05
Session: Winter Day

GGRB03Y Climatology
An introduction to the scientific analysis of world climate. The course is through study of the governing physical and dynamic controls. The major zonals of the earth are described including an examination of atmospheric circulation, general and local circulation and moisture balances. In the second half of the course several important applied aspects of climatology will be examined. Tutorials will include use of simple climatological instruments and analysis of weather maps.
Some of the major topics are: radiation and energy balance on a small scale; surface effects on these balances; gas flux in the atmosphere; atmospheric motion and winds; atmospheric water vapour and clouds; global circulation; air masses and fronts; and small climatic variables, their measurement and use. Climatic change and the effect of climate on social and industrial activities.
Prerequisite: GGRA05
Session: Winter Day
G. Szeicz

GGRB025Y Urban Geography
A study of the forces and processes which give rise to urban places, which influence the growth and development of cities and systems of cities, and which influence the location of various types of human activities in the city.
The first half of the course focuses on the city in history and on urban systems - their evolution, regulation, classification, and abstract representation. The second half is concerned with the internal structure of the city, concentrating on residential, commercial and industrial land use patterns, and on transportation, migration and planning. Exams will be drawn in part from Canadian cities. Two hours of lectures per week.
Session: Winter Day, Summer Evening
P. Moore

GGRB07Y Geomorphology: The Pleistocene Epoch
Centered around the theme "Morphology and Process", evaluates landscape changes during and since the Pleistocene Epoch. The relationship 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. Laboratories and lectures. Limited enrolment: 25
Corequisite: GGRB19. GGRB025Y is strongly recommended.
Session: Winter Day

GGRB13Y Modern Landscapes and Built Environments
The character and architectural and social origins of twentieth century landscapes, and the ways in which places and landscapes can be appreciated and designed.
In the fall term the features of modern landscapes and the architectural and social origins will be discussed. In the spring term emphasis will be on the experience and appreciation of landscapes, and on the problems of twentieth century built environments. Various approaches to environ-
mental design will be examined. Field trips are planned during the fall term.
Prerequisite: GGRA44; students with GGRA05 admitted with permission of instructor.
Session: Winter Day
E.C. Ralph

GGRB17Y Rural Geography
Concepts of rurality, evolution and elements of rural settlement, rural resource base, agrarian land use, contemporary issues in rural regions.
A thematic study of the geography of rural environments. Lectures and seminars will examine the distinctiveness of rurality, the evolution, elements and patterns of rural settlement, the rural resource base, agricultural land use, and contemporary issues in rural regions. These themes will be discussed in various cultural contexts.
Prerequisite: GGRA44; students with GGRA05 admitted with permission of instructor.
Session: Winter Day
M.F. Bunce

GGRB19Y General Geomorphology
Processes of soil and water development and landform evolution; weathering processes and soil development; hillslope form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in and regions; the geomorphic role of climatic changes; Pleistocene and present day glaciation; geomorphology as an applied geological field. Field Excursions, Laboratories, lectures.
Prerequisite: GGRA05
Session: Winter Day
R. Bryan

GGRB24Y Environmental Pollution
The physical causes of environmental degradation are treated, with emphasis on the pollution of water systems by human usage. The course outlines the types and sources of major pollutants and suggests strategies to reverse or avoid the deteriorations caused by them.
The aim is to examine the complexity of the controls in disturbed water-air systems, and to give students an understanding of how the residue of human population and usage of water and solid resources change the controls and degrade the quality of natural systems. Two hours of lectures and one hour of lab per week.
Exclusion: (GGRC23)
Session: Winter Day
E.F. Prince

GGRB25Y Geographic Methods
Introduction to basic methods in geography, including elementary data handling, graphic and cartographic representation, remote sensing, aerial photography, interpretation, field study and survey methodology.
The aim of the course is to equip students with skills necessary for the analysis of various geographical problems. One two-hour lecture and one two-hour laboratory per week.
Exclusion: GGRA03. Students who have completed either GGRB21 or GGRB22 are also excluded from taking this course for credit.
Session: Winter Day
P. Moore

GGRB27F Development Principles in Geography
An introduction to theories of growth and development with emphasis on spatial or locational implications. Course topics include spatial patterns in economic activity, theories of trade and regional specialization, patterns of urbanization and their role in regional development, and the planning and management of growth.
In this course, spatial patterns of development and growth will be related to location and trade theories, land allocation processes, urban growth theory, city system linkages, and polarizing forces. The role of the planner in shaping changes to these patterns will also be discussed. This course is intended to be taken in conjunction with GGRB28S. Two hours of tutorials per week plus an additional tutorial hour as needed.
Exclusion: (GGRB06)
Prerequisite: GGRA04Y or A-level course in the Social Sciences.
Session: Winter Day

GGRB28S Development Principles in Geography
An evaluation of the spatial and locational impacts of economic and social change. Varying theoretical interpretations of macroeconomic growth are presented and analyzed, and their value as tools for understanding spatial processes is discussed.
In the course, the theories of the classical, neoclassical, and structuralist schools of economic and social development are discussed in relation to processes of urbanization, industrialization, removal, migration and spatial inequality. The implications of each theory for planning and policy formulation will also be discussed. The course is intended to be taken with GGRB27F. Two hours of tutorials per week plus an additional tutorial hour as needed.
Exclusion: (GGRB06)
Prerequisite: GGRB27F
Session: Winter Day
P. Moore

GGRC08F Theory and Method in Modern Quantitative Geomorphology
Theoretical models of landscape evolution in relation to recent experimental and field studies on geomorphological processes. Seminar and project work with considerable reading assignments. Limited enrollment. 20.
Prerequisite: GGRB07 or GGRB15. GGRB02 is strongly recommended.
Corequisite: None, but GGRB02 is strongly recommended.
Session: Winter Day
B. Greenwood

GGRC01Y Supervised Research
A research project under the supervision of an interested member of faculty. The project will culminate in a written report in the form of a dissertation. This may be based upon the results of library or archival research, field study, data analysis or other appropriate methods. Students will meet as a group with the coordinator as well as having frequent contact with their supervisor. Prerequisite: Any fifteen full-course equivalents. By the end of the year in which the student takes this course, at least eight full-course equivalents in Geography (not including GGRC01) must have been completed.
Session: Winter Day
Coordinator: M.F. Bunce

GGRC04S Urbanization and Residential Geography
A study of residential areas in the modern city, with a strong focus on the Toronto region. The overall emphasis is on the manner in which residential geography is a part, as well as a reflection of, important political, economic and social processes.
The course begins with a consideration of past and present trends in urbanization, and their relevance for regional planning and urban government. The major focus of the course is on residential differentiation or segregation and the associated processes of neighbourhood change in the city, and on the quality of the residential environment, the provision of public goods, planning and the political processes involved. Each two-hour class will consist of a general lecture, a seminar presentation by a student and a discussion.
Prerequisite: GGRB05 or GGRB27/GGRB28.
Session: Winter Day
P. Moore

GGRC16F Urban Transportation Policy Analysis
An introduction to the analysis of urban transportation planning problems. Topics include the spatial impacts of transportation improvements, mass transit policy, environmental impacts, and evaluation in transportation planning.
Three hours of lectures per week.
Prerequisite: GGRB05 or GGRB06.
Session: Winter Day
GGR320F Rural Planning and Development
The special problems of rural land and settlement use in the modern world and of associated planning and development policies. Emphasis will be placed upon the role of government policy in the shaping of rural landscapes and societies. The main topics will include agricultural and rural development programmes, policies for marginal and remote areas, agricultural land preservation, rural landscape conservation, rural settlement strategies. Examples of particular policies and programmes will be used as case studies in workshop sessions.
Prerequisites: GGRB09, GGRB13 or GGRB17. Students with a background in other Social Sciences disciplines may be interested in this course: they will be admitted with permission of instructor.
Session: Winter Day
M. F. Bunce

GGR280Y The Hydrology of Surface and Subsurface Waters
A quantitative study of the processes governing the behaviour of water at or near the surface of the earth. Conventional techniques of analysis and prediction are considered as well as some of the applications to problems of water resources management planning.
Many of our problems, particularly those involving extreme hydrologic events, stem from two sources: our lack of understanding of the operation of natural hydrologic processes; and our inability to predict and understand the consequences of our manipulations of the unforeseen consequences of other activities. It is hoped that this course will result in a better understanding of those controls, and in a working knowledge of ways in which hydrologic risk can be assessed. Two one-hour lectures and one one-hour laboratory per week.
Exclusion: GGRB18
Prerequisites: GGRB03 or GGRB19 or GGRB24.
GGRB20 is strongly recommended.
Session: Winter Day
A. G. Price

GGR321S Development and Planning of Metropolitan Regions
An advanced analysis of the recent growth history of major metropolitan regions, its causes, the public policy issues raised by them, and the role and impact of public planning policies.
The course is designed for students interested in either urban geography or urban and regional planning. It focuses on the insights which can be gained from recent empirical research. First-hand readings of important studies will help the student to develop a critical awareness of approaches and issues in research in this area.
Two hours of lectures and one one-hour tutorial per week.
Exclusion: GGRC27
Prerequisites: One of GGRB05, GGRB06, GGRB27/GGRB28, ECOB47, POLB88, SOCBO5
Session: Winter Day
J. Miron

GGR34F Landscape Interpretation
Ways of interpreting and analyzing landscapes through field investigations of specific places, both urban and rural. The course involves a number of field trips held in class time followed by discussion and analysis of observations, with an emphasis on local landscape features and methods of observation and interpretation. Limited enrolment: 20.
Exclusion: GGRB17
Prerequisites: One of GGRB05, GGRB13 or GGRB17; students with other Geography courses or courses from other disciplines with permission of instructor.
Session: Winter Day
E. C. Reiph

Courses Not Offered in 1982-83

GGRB15Y Coastal Geomorphology
Corequisite: GGRB19, GGRB20 highly recommended.

GGRC15S A Theoretical Approach to Political Geography
Prerequisites: Any two of GGRB01, GGRB05, GGRB06, GGRB13, GGRB17, POLB70, POLB71
they will be admitted with permission of instructor.

GGRC24S Advanced Quantitative Methods
Prerequisite: GGRB02

GGRC25S Sedimentary Models
Prerequisite: GGRB07Y or GGRB15

GGRC32S Research Seminar in Soil Management
Prerequisite: GGRB29 (or GGRC15)

GGRC33Y Africa: Perspectives in Geography and Development
Exclusion: GGRB20
Prerequisites: One of GGRB01, GGRB05, GGRB06, GGRB17, or one B-level course in development studies in economics, political science, or sociology.

Specialist Programme in Terrain and Environmental Earth Sciences
Supervisor: J. A. Westgate
The TEES Programme draws upon courses offered at Scarborough College as well as those given on the St. George Campus, and involves the subjects of Geography, Physical Geography, Geotechnical Engineering, and the basic sciences.
The programme comprises seventeen and one-half full courses. In addition, two field courses must be taken beyond the twenty courses required for the Four-Year Degree. Each is one-week duration and must be taken at the end of each of the 3rd and 4th year.

First year:
GLG801Y Introductory Geology
GGRB05Y Introductory Physical Geography
MATA26Y Calculus
or
MATA55Y Calculus with Analysis
CMH02Y General Chemistry
PHYA03Y Physics for the Physical and Life Sciences

Second year:
GLB01Y Introductory Mineralogy and Petrology
GLG025 Principles of Stratigraphy and Sedimentology
GGRB19Y General Geomorphology
MATA41F Techniques of the Calculus of Several Variables
MATA425 Techniques of the Calculus of Several Variables
or
MATB50F MATB50E Analysis I
Analysis II
Physical Chemistry I
Computer Programming
or
Introduction to Computing

Geology in the Urban Environment
The course is designed to show the relevance of geology to our daily lives. The fundamental theme will be to emphasize that the Earth has evolved through dynamic natural processes; these will be identified and discussed. The interaction of these natural processes with urban communities will be stressed. No prior knowledge of the Earth Sciences is required.

Specific topics include: The Earth as a planet; earthquakes; the architecture and composition of the earth's crust; volcanic terrains; processes associated with the hydrologic cycle; the Great Lakes; the impact of growth of a large urban area; such as Metropolitan Toronto, on the natural physical environment.

Throughout the course an awareness of the importance of the geological heritage of southern Ontario will be developed, and the processes that shaped its environment will be described. The input of geology into planning will be discussed.

Session: Winter Day
K. Howard

GLG01Y Fundamentals of Hydrogeology
The course adopts a multidisciplinary approach to the problems facing the practising hydrologist. Principles include: mechanics of groundwater flow; hydrogeometry and water resources assessment; groundwater hydrology; water quality and hydrochemical processes; exploratory drilling; aquifer testing; pumping; and borehole and surface geophysics.

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

Prerequisites: PHYA03Y or (PHYA02Y) MATC51F; CHMB03Y; GLGB01Y

Session: Winter Day
K. Howard

Fourth Year

GLG39F Environmental Geochemical Analysis

CIV29F Geotechnical Engineering

GLG42S Sedimentary Models

or

GLG29S Sedimentology of Clastic Rocks

GLG40H Environmental Geochronology

GDR23F Sedimentary Petrology

or

GLG39F Natural Processes in the Ocean

GLG40H Environmental Geochemical Analysis

GLG40H Quaternary Stratigraphy

or

GLG40H Current Environmental Issues in the Earth Sciences: case histories

GLG40H Quaternary Stratigraphy

GLG40H Current Environmental Issues in the Earth Sciences: case histories

GLG40H Quaternary Stratigraphy

Options: Students are strongly encouraged to consider courses in the wide range of other disciplines available at the College.

GLGA01Y Planet Earth: an Introduction to Geology

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

Exclusion: GLGA02

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

Exclusion: GLGA02S

Session: Winter Day
J.A. Wastegate

GLGB02S Principles of Stratigraphy and Sedimentology

Physical and chemical processes of sedimentation, properties and classification of sedimentary rocks, sedimentary environments and facies, diagenesis, stratigraphic nomenclature and classification.

Prerequisites: GLGA01

Corequisites: GLGB01

Session: Winter Day
N. Eyles, J. Westgate

German

Discipline Representative: H. Wittmann

Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria and part of Switzerland. Language and literature courses may be combined in various ways by students who have completed the prerequisite courses. Also available are Major Programs in German Language and Literature, and a Specialist Programme in German Area Studies. All Programmes include a sequence of language courses in order to maintain continuity in the development of practical skills.

Specialist Programme in German Area Studies

Supervisor: H. Oehlendorf (284-3197)

The German-speaking areas of Europe have throughout their history exerted a major formative influence on Western civilization, be it in the fields of politics and economics or through their contributions to literature, the arts, and philosophy. Awareness of this significant fact is clearly reflected in a large number of courses in the Social Sciences and the Humanities at Scarborough College.

In order to offer the student of German Area Studies a coherent interdisciplinary plan of study we have grouped these courses below. This is a Programme of twelve full-course equivalents. Required for every student are the German language courses GERB01Y, GERC01Y, and two full-course equivalents in German Literature. Four full-course equivalents are to be chosen from one of the core groups A, B, or C. The remaining three full-course equivalents should be selected from groups A-E, excluding your core choice.

A History

HISG01Y The European World

HISG17Y Germany in the 19th and 20th Centuries

HISG27Y European Society and Culture

HISG19Y Between the World Wars

plus one course from among:

HISG19S Weimar Culture

HISG18Y Europe in the Reformation Era 1500-1650

HISG19Y European Social History 1789-1918

HISG19Y Europe under the Enlightened Despots

B The Arts

MUSA01Y Introduction to Music

MUSB02Y Music of the Classical Period

MUSB05Y Music of the Romantic Period

plus two full-course equivalents from among the following:
GERA09H Language Practice I
A practicum offered in conjunction with GERA10Y. The focus is on pronunciation and
oral and written composition. This practicum is designed to reinforce and
supplement the material covered in GERA10Y, as well as to expand the
students' skills of expression and comprehension. This practicum is offered one hour per week.
Corequisite: GERA10
Session: Winter Day
U. Sherman

GERB19Y Language Practice II
A practicum offered in conjunction with GERS02Y. The focus is on oral and written composition.
This practicum is designed to reinforce and supplement the material covered in GERS02Y, as well as to expand the
students' skills of expression and comprehension. This practicum is offered one hour per week.
Corequisite: GERS02Y
Session: Winter Day
U. Wittmann

GERB20Y Intermediate German
Intensive language work focusing on readings and oral and written composition.
The course is designed to enhance the students' active and passive vocabulary and to prepare
them for the study of more advanced levels. This course is designed to expand the students' skills of expression and comprehension.
This course is offered two hours per week.
Prerequisite: GERS02Y
Session: Winter Day
H. Ohrendorf

GERB33S Practicum in the History and Structure of the German Language
A seminar on the history of the German language from the Middle Ages to the present. Working with
representative texts from the various historical periods, students will come to a better understanding of the
prevalences and structures of contemporary German.
Prerequisite: Grade 13 or GERA09 and Grade 110
Session: Winter Day
S. Sherman

GERB05F Methods of Interpreting Literature
An introduction to the techniques of literary analysis.
This course will examine the methods and effects of literary analysis. Students will be introduced to
the basic principles of literary analysis. They will be asked to develop their own interpretation
methods and to write short essays on the basis of their analysis.
Prerequisite: GERB02Y or GERB20Y
Session: Winter Day
U. Wittmann

GERB06F Nineteenth Century Prose
A study of the novel as a form centered on the representation of the art of writing.
The course focuses on the works of major authors from the nineteenth century. The
method of the course is both historical and systematic. Works from three major periods of
the nineteenth century will be discussed: Romanticism (Keats, Brentano, Eichendorff) and
Psychological Realism (Dostoevsky, Hesse, Meyer, Storm). Georg Büchner's role as the most innovative
writer of his time and as the precursor of twentieth-century man will be assessed. The focal
points are the clash between idealism and realism,
narrative technique, the history and the theory of the novella, the relationship between the evolution of ideas and the character of a literary work of art, the development of the short prose form in the nineteenth century.

Three one-hour seminar sessions per week.
Prerequisite: GERB19 and B20
Session: Winter Day

H. Wittmann

GERB66F Twentieth Century Prose
Main literary trends in Germany from the turn of the century to the present.
The course is divided into three parts with the following themes: i) Crisis of consciousness and language (Hofmannsthal, Rilke, Musil, Kafka); ii) The conflict of art and life (Mann, Hesse); iii) Art and morality (Grass, Bölö). It intends to show the genesis of modern prose as it emerges from the conflict between the consciousness of the writer and an increasingly complex reality shaped by the revolution of science and technology. Its main goals are to explore the resulting attitude of the writers toward language, the structure of society and the concept of individuality. Three hours of a mixture of lectures and discussion sessions per week.
Prerequisite: GERB19 and B20
Session: Winter Day

H. Wittmann

GERB73S Modern German Poetry
A study of lyrical trends and forms from the post-Romantic era to the present.
The course deals with a multitude of different forms and styles of poetry in the 19th and 20th century. It attempts to foster the understanding of how a poem works and of what its role is within the history of its form and in its cultural context. Special topics: the relationship between sound, organization and meaning, poetry and philosophy, poetry and ideology. Three hours of a mixture of class discussion and lectures.
Prerequisite: GERB19 and B20
Session: Winter Day

Staff

GERC10Y Advanced Composition and Conversation
The refining of the skills of oral and written composition, textual analysis and translation.
There will be various kinds of language exercises, selected according to the objectives of the course and the needs and desires of the students. Themes for discussion and composition will be chosen from a wide variety of areas.

At the end of this course, the student should be able to write and converse in idiomatic German with a high degree of fluency. He should be able to translate with ease texts of some complexity into both English and German.
The language spoken in class is German.
Prerequisite: GERB19 and B20
Session: Winter Day
H. Ohlendorf

GERC20Y Literature of "Sturm und Drang" and Romanticism
The early dramatic and poetic writings of Goethe and Schiller.
Such texts as Götz von Berlichingen and Die Räuber, will be studied along with works by authors such as Lenz, Klinger, et al. The themes and forms first emerging in the Sturm und Drang will be shown to find renewed and somewhat altered expressions in the critical deliberations of the Schlegel brothers and their friends, as well as in the poetry and prose of such writers as Novalis, Tieck, Brentano, and Eichendorff.
A seminar course.
Prerequisite: GERB19 and B20
Session: Winter Day
H. Ohlendorf

GERC30, 33, 43F
C36, 40, 46S
C48Y Supervised Reading
The course is designed to give senior students an opportunity to follow up on ideas generated during the more formal courses of instruction. Topics and/or projects are formulated in consultation between student and supervisor chosen by student.
Prerequisite: (GERB30), GERB19 and GERB20
Session: Winter Day
Staff

Courses Not Offered in 1982-83

GERB24S The Last Hundred Years
Prerequisite: GERB19 or GERB20

JHGB50Y The Development of German Drama
Exclusion: (GERB40)

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

JHGB52F The Holocaust in German Literature

GERB53F Nineteenth Century Drama
Prerequisite: GERB19 and GERB20
Discipline Representative: J. R. Robertson

The study of History is intended to enhance our understanding of men in society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic; its methods draw from all forms of scholarly endeavour. History courses, therefore, can play a part in a number of interdisciplinary programmes and can serve as an adjunct to courses in Politics, Philosophy, Literature, Economics and Sociology.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HSA01Y provides both a general introduction to the study of History at the university level, and the preparation for further studies in European history. A series of survey courses (HIS020 to 09) provides a comprehensive foundation for knowledge in particular areas, and which also allows for preparation for more detailed and advanced studies in upper-level courses. Students may elect courses in all major areas, periods, or themes. Courses are conducted as seminars. In these seminars students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are courses of sequences of courses at all levels in the following areas: Medieval, Early Modern, Modern European, British, Middle Eastern, African, Canadian, Russian, and Ancient Greek and Roman.

Specialist Programme in History
Supervisor: A. N. Sheps (284-3346/M. Eksteins

Students must complete twelve full-course equivalents as follows:

A. Two full courses in one area of History (HIS or GRH), including HIS01Y and five upper-level courses (HIS11Y-1159, GRH24F/5-GRH25Y, HIS300 and 400 level courses on the St. George campus). Of these at least two must deal with the period prior to 1515 (see list). Students are also required to take courses in at least three different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in each of two areas.

B. Two must be full-course equivalents in disciplines other than History and be agreed upon in consultation with the Supervisor.

Major Programme in History

Supervisor: A. N. Sheps (284-3346/M. Eksteins

Students must complete seven full-course equivalents in History (HIS or GRH), including HIS01Y and three upper-level courses (HIS11Y to 159, GRH24F/5-GRH25Y, HIS300 and 400 level courses on the 5th to 10th floor of the St. George campus). Of these at least one must deal with the period prior to 1515 (see list). Students are also required to take courses in at least two different areas (Greek and Roman, Medieval European, Modern European, British, Canadian, United States, Russian), and to take at least two upper-level courses in one of these two areas.

Pre-1815 courses

LIST A

Full-year courses exclusively within a period before 1815

GRH001Y Greek History from the Bronze Age to the Death of Alexander

GRH002Y Greek History from the Death of Alexander to the Roman

GRH003Y Roman History from the Roman to Nero

GRH025Y Studies in Greek History I

GRH026Y Studies in Greek History II

GRH027Y Studies in Roman History: Pompeii

GRH028Y Studies in Roman History: Rome

GRH029Y Studies in Roman History: Roman Britain

HIS006Y Europe in the Middle Ages

HIS013Y Europe in the Reformation Era, 1500-1650

HIS018Y Europe under the Enlightened Despots

HIS023Y Tudor and Stuart England

HIS011Y The Beginnings of France: Constantine to Charlemagne

HIS012Y The Renaissance in Europe

HIS013Y The European Mentality in the Early Modern Period

HIS014Y The American Colonies and the British Empire

LIST B

Half-year courses exclusively within a period before 1815

GRH015F/S Ancient Historiography

GRH017F/S Popular Culture in Early Modern Europe

HIS019Y Revolutionary America 1760-1790

HIS021F/S Old China

LIST C

Full-year courses covering a period before 1815 (equivalent to half-year course credit)

HIS001Y The European World

HIS002Y Russia from the Thirteenth Century to the Present

HIS046Y Atlantic Canada

Students should check these courses for prerequisites.

LIST D

Full-year courses covering a period before 1815 (equivalent to half-year course credit)

HIS001Y The European World

HIS002Y Russia from the Thirteenth Century to the Present

HIS046Y Atlantic Canada

Students should check these courses for prerequisites.

HIS001Y The European World

A survey of European history from the Middle Ages to the present. This course examines the most prominent changes in social and economic organization, in thought and in politics, as Europe developed from a feudal and agrarian to a modern and industrial order. The teaching method is based on lectures and tutorials. A set of readings from primary and secondary sources will be assigned, but further reading by the student is essential.

Session: Winter Day

J. Pearl, M. Eksteins

HIS002Y Britain from the Eighteenth Century to the Present

An examination of the political, social, economic, and religious forces which transformed an aristocratic society into an industrial power, and of the reasons for the decline of British power in the twentieth century. The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy, of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlihishment into one committed to that of secular humanism. It will also consider why, in the twentieth century, the British have abandoned their imperial role and have concentrated on the establishment of a welfare state. Two lectures and one tutorial per week.

Session: Winter Day

J. P. Kenyon

HIS003Y History of the United States

Major themes from the Revolution to the present. The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, and the United States as a...
HISB04Y Introduction to Canadian History
An introduction to the history of Canada from the first European contacts to the present.
Topics studied include: exploration and settlement; the institutions and life of New France, the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social, and cultural history of the new nation-state established in 1867. Two hours of lectures and one tutorial hour per week. Regular attendance at and participation in tutorials is required.
Exclusion: HISB001
Session: Winter Day, Winter Evening
J. S. Mor, J. R. Robertson

HISB06X Europe in the Middle Ages
A chronological survey of economic, political, religious and social developments in Western Europe (including Britain) from the late Roman period to the fifteenth century. The objectives of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization and subsequent expansion of Europe. Particular attention is paid to (i) the specific circumstances which determined national boundaries and which led to the divisions and conflicts of the modern world, and (ii) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, The World of Late Antiquity, G. Duby, Rural Economy and Country Life in the Medieval West, D. Hay, The Medieval Centuries, R. W. Southern, Western Society and the Church in the Middle Ages, and others. Two hours of lectures and one tutorial per week.
Exclusion: HISB080
Session: Winter Evening
M. Gervers

HISB07Y Russia from the Thirteenth Century to the Present
The Russian people, state and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present. Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but the flavour of Russian history. Lectures and tutorials.
Session: Winter Day
E. W. Dowler

HISB10S Women in the Western World from the Renaissance to the Present
The place of women in European and North American societies, and the historical debates over women’s place. Topics will include the family economy, education, marriage and childrearing patterns, the public sphere (e.g. political life and the paid labour force), and legal rights. The Renaissance and early modern periods will be presented as background; emphasis will be on the period after 1750. There will be one two-hour lecture and one tutorial per session. Students will write one research paper on a topic of their choice, based largely on primary sources.
Prerequisite: One of HIS101Y, HIS102Y, HIS103Y, HIS104Y or HIS1051Y
Session: Winter Day
L. J. Abram

HISB15Y European Social History 1789-1918
A course in international history tracing the development of the mass society from the upheaval of the French Revolution to the end of World War I. The industrial “crowds” and popular responses to industrialization will be studied together with the institutions into which mass action was gradually channelled. One two-hour lecture and one tutorial per week.
Prerequisite: HIS101Y
Session: Winter Day
W. M. Dick

HISB17Y Germany in the Nineteenth and Twentieth Centuries
A thematic treatment of German history from the end of the Holy Roman Empire to the present. The course will concentrate on social, economic, cultural and intellectual changes of Germany’s political experience. Two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential.
Prerequisite: HIS201Y
Session: Winter Day
M. Fournier

HISB18Y Europe Under the Enlightened Despots, 1700-1789
An examination of the ideas of the Enlightenment against the background of the political and social reality of Europe in the eighteenth century. Emphasis will be placed on the incongruity of theory and practice in the writings and policies of the enlightened despots. In the first term the course will focus on the ideas of the Enlightenment and the social, economic and intellectual milieu which spawned them. In the second term the attempts of the so-called enlightened despots to apply Enlightenment ideas to the life of their states will be examined.
Lectures and tutorials.
Prerequisite: HIS101Y
Session: Winter Day, Summer Evening
E. W. Dowler

HISB21F Frontier Communities in the British Empire-Commonwealth: The South African Model
A comparative study of the influences of frontiers on the development of new nations, with special emphasis on the history of South Africa. Such major issues as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power are considered. Two lectures a week.
Prerequisite: HIS202 or permission of instructor
Session: Winter Day
J. P. B. Kenyon

HISB22S British Imperialism in India
The impact of imperialism on India. Topics will include the motive behind British imperialism, the problems of administration, the transfer of power, neo-colonialism. Two lectures a week.
Prerequisite: HIS202 or permission of instructor
Session: Winter Day
J. P. B. Kenyon

HISB23Y Tudor and Stuart England
England from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688. The course gives an overview of political, economic, social, and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers; Parliament and the rule of law; the great religious crisis and its spillover into civil war; the cultural heritage. Two lecture hours and one tutorial per week.
Prerequisite: Any B-level course
Session: Winter Day
L. J. Abram

HISB35Y The United States since 1870: The Response to Industrialism
Industrial organization, social mobility, ethnicity, relations between government, labour and capital, social welfare and the implications of industrial development for foreign policy are among the topics discussed.
Prerequisite: HISB03
Session: Winter Day
W. M. Dick

HISB42Y French Canada: Origins to the Present
A thematic study with particular emphasis on Quebec in the nineteenth and twentieth centuries. The course examines what unites and divides French Canadians, the impact of English dominance, nationalism, industrialization, urbanization, demographic problems, the role of the Catholic church, and relations between Francophones and Anglophones in Canada. Although Quebec receives pride of place we shall also look at communities in the Maritimes, Ontario, the West, New England, and the American South.
Two lectures and one tutorial per week.
Prerequisite: HISB04 (HISB09)
Session: Winter Day
L. J. Abram

HISB44F Canadian Religious Traditions
A course investigating aspects of the role of religion in the development of Canadian society. Such themes as religious establishment, denominational education, church-state relations, theological trends, revivalism, religious ethnicity, mission action, nationalism and social groupings in relation to religion, the modernist-fundamentalist controversy, premillennialism, the Social Gospel, and religion-political movements will be examined. Two lectures per week.
Prerequisite: HISB04 (HISB09)
Session: Winter Evening
J. S. Mail

HISB45Y Atlantic Canada
An examination of the Maritime provinces and Newfoundland from the first European contacts to Confederation in each province. Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colo-
nal economies and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fishermen's movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include two research papers.
Prerequisite: HISB04 (HISB09)
Session: Winter Day
I.R. Robertson

HISB47Y The Canadian Left, 1867 to the Present
An investigation of farmer, labour, and socialist movements since Confederation, their roots in the changing social structure, and their political manifestations.
The emphasis will be on the twentieth century, and attempts will be made to assess the significance of the international affiliations and/or origins of the various movements, and to account for the unique character of the Canadian Left. In broad terms, the course objectives are (i) to encourage the study of social classes who have been excluded from the exercise of power in Canada, and to examine the ways in which they have been able to protect their interests; and (ii) to explore the relationship between social change and popular, reform, radical, and socialist movements.
One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks throughout the year. Written work will include two research papers.
Prerequisite: HISB04 (HISB09)
Session: Winter Day
I.R. Robertson

HISB01F HISB02F HISB03Y Independent Studies
A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students meet regularly with the supervisor to discuss progress in their investigations and complete a 7,500- to 10,000-word paper for a term course and a 15,000- to 20,000-word paper for a year course.
Prerequisite: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISB01 and HISB03 and by 1 December for HISB02. See History Supervisor for detailed application procedures.
Session: Winter Day
The History Faculty

HISC19S Weimar Culture
An examination of the social and political foundations of "modernism", using the cultural ferment of Germany between 1918 and 1933 as model.
Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation. Seminar. Limited enrolment: 15.
Prerequisite: HISB01 and one B-level course in History
Session: Winter Day
M. Ekelund

HISC21Y Urbanization and Social Change in Nineteenth Century England
A study of the new social environment created by the growth of cities in an industrial community.
Seminar. In the first term students will discuss major issues based on prescribed readings; they will also write a book report. In the second term students will present a report on their research. Limited enrolment: 20.
Prerequisite: HISB44
Session: Winter Day
J.P.B. Kenyon

HISC43S Selected Topics in Canadian Religious History
A research seminar examining in depth themes outlined in HISB44F.
Weekly seminar. Limited enrolment: 15.
Prerequisite: HISB44
Session: Winter Evening
J.S. Moir

HISC62Y The Crusades
An examination of the Crusades of the eleventh through fourteenth centuries.
This seminar will consider the Crusades as a continuation of Christianity's centuries-old struggle with paganism, as a form of colonial expansion, and as a papal weapon against heresy and political dissension within Christendom. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitallers, Templars, Teutonic Knights, and associated orders in Spain and northeastern Europe. During the first semester students will read several of the most significant scholars in the field and, in class, compare and contrast the wide variety of viewpoints and interpretations which have arisen since the completion of Gibbon's Decline and Fall of the Roman Empire in 1781. The second semester will be devoted to a similar reading (in translation) and critical analysis of original Western European, Byzantine, Arabic, and Jewish chronicles of the crusading movement. Term papers will concentrate on the careful study of a secondary work and a major primary source.
Bibliography available from Prof. Michael Gervers.
Prerequisite: HISB06 (HISB08)
Session: Winter Day
M. Gervers

HISC78Y The Russian Intelligentsia
A study of the origins, beliefs, role and personalities, of the intelligentsia in Russia during the nineteenth and early twentieth centuries.
The historical importance of the Russian intelligentsia is unparalleled in the history of any other country. Not a class, but rather a mysterious, all-encompassing phenomenon, the intelligentsia embraced the great thinkers of the Russian and left from Dostoevsky to Lenin. The bulk of the course will consist of a detailed examination, through the writings of some of the leading intelligentsia, of intelligentsia ideas and personalities. The fate of the intelligentsia in the Soviet Union and the 20th-century connotations of the word will also be explored. The course will be taught by seminar. Limited enrolment: 20.
Prerequisite: HISB07 or USCA01
Session: Winter Day
E.W. Dowler

Courses Not Offered in 1982-83

HISB13Y Europe in the Reformation Era
1500-1650
Prerequisite: HISB01
Exclusion: HISC14

HISB14S Popular Culture in Early Modern Europe
Exclusion: HISC14
Prerequisite: HISB01

HISB18Y Modern France 1750 to the Present
Prerequisite: HISB01

HISB31Y The Southern United States and Slavery
Prerequisite: HISB03

HISC30F America and Social Reform 1890-1940
Exclusion: HISB35
Prerequisite: HISB03

HISC43F The Evolution of Ontario, 1850-1960
Exclusion: HISB04 (HISB09)

HISC61Y The Beginnings of France: Constantine to Charlemagne
Prerequisite: Any B-level course in History of Greek and Roman History

HISC12Y The Renaissance in Europe
Prerequisite: HISB01 or permission of the instructor

HISC14Y The European Mentality in Early Modern Period (1500-1700)
Exclusion: (HISC12); (HISC13)
Prerequisite: One B-level History course

HISC17Y European Society and Culture in the Twentieth Century
Exclusion: HISB01 and one B-level course in History

HISC20H Anglo-Saxon England
Prerequisite: One B-level course in History of English

HISC32Y The American Colonies and the British Empire
Prerequisite: Anyone of HISB02 (HISB01), HISB03, HISB04 (HISB03) or HISB18

HISC34F/S Revolutionary America, 1780-1790
Prerequisite: HISB01 or HISB03 or HISB18

HISC35S U.S. Labour and Society 1890-1920
Prerequisite: HISB35 or HISB36

HISC41F Old Huzonia
Corequisite: HISB04 (HISB09)
Carequisite: Field trip to be arranged

HISC42S Church-State Relations in Canada
Exclusion: HISB42
Prerequisite: HISB44

HISC45Y History of Canadian Social, Political and Historical Thought
Exclusion: HISB45
Prerequisite: HISB04 (HISB09)
The History of Ideas
What has man made of man? The History of Ideas studies the impact of major ideas on the development of western civilization. The Programme described below will enable you to develop a solid grounding in the intellectual and social history of mankind, and will help you to sharpen your skills in practical critical thinking. You will focus your studies in areas of your own interest. In the Specialist Programme a seminar in your last year of study will help you to concentrate your studies around a central problem of your choice, drawing together issues and ideas you have studied in your previous years.

Specialist Programme in History of Ideas
Supervisor: W. C. Graham (284-3279)
Students must complete at least twelve and one-half full-course equivalents as follows:

1. HUMA01Y Prologue
2. ANTA01Y Introduction to Anthropology
3. ASTA03Y Introduction to Astronomy (for non-scientists)
   or
4. MATA40F & 45S Linear Algebra
   or
5. NSCA01Y Introduction to Natural Science: The Physical Sciences (for non-scientists)
   or
6. PHLA01Y Introduction to Philosophy
   With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.

HUMA01Y European World
5. One-half full-course equivalent from:
PHLB03F/S Philosophy and Art
PHLB14F/S Philosophy of the Social Sciences
PHLB16F/S Philosophy of History
PHLB20F/S Belief, Knowledge and Truth
PHLB70F/S Philosophy of Science
PHLB81F/S* Theories of Mind
6. One full-course equivalent in the development of philosophical ideas: PHLB40S to PHLB49S.

Five full-course equivalents at least one of which must be at the C-level from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half-course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure. "The History of Ideas". Alternatively, students may elect to complete the Independent Study Year, HUMC95S-99Y.

HUMC101H Humanities Seminar

Students should check these courses for prerequisites.

7. One full-course equivalent in political thought from:
PHLB18F/S Society, the State and Citizen
PHLB12F/S* Marx and Marxism
PHLB17F/S Anarchism
POLB070Y Political Thought from Plato to Locke
POLB71Y Political Thought of Eighteenth and Nineteenth Centuries
POLC070Y Twentieth Century Political Thought

Eight full-course equivalents at least one of which must be at the C-level from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half-course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure. "The History of Ideas". Alternatively, students may elect to complete the Independent Study Year, HUMC95S-99Y.

College Programme in History of Ideas
Supervisor: W. C. Graham (284-3279)
Students must complete at least ten full-course equivalents as follows:

1. HUMA01Y Prologue
2. ANTA01Y Introduction to Anthropology
   or
3. NSCA01Y Introduction to Natural Science: The Physical Sciences (for non-scientists)
   or
4. PHLA01Y Introduction to Philosophy
   With approval of the Supervisor, other courses from the Division of Physical or Life Sciences may be substituted.

HUMA01Y European World
5. One-half full-course equivalent from:
PHLB03F/S Philosophy and Art
PHLB14F/S* Philosophy of the Social Sciences
PHLB16F/S Philosophy of History
PHLB20F/S Belief, Knowledge and Truth
PHLB70F/S Philosophy of Science
PHLB81F/S* Theories of Mind
6. One full-course equivalent in the development of philosophical ideas: PHLB40S to PHLB49S.

Four full-course equivalents from among the following areas of concentration: (a) civilization or history, (b) art or religion, (c) science or society. At least one half-course must be taken from each of the three areas. A specific list of courses for these areas is available from the Supervisor and in the brochure, "The History of Ideas".

Students should check these courses for prerequisites.

Humanities
Discipline Representative: C. Ponnamerl

The Humanities are concerned with man's never-ending reflection on the human condition, with the development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

The majority of courses in the Humanities are offered by the various disciplines comprising the Humanities Division and are listed alphabetically under the discipline heading in this calendar, along with the Specialist and/or Major Programme centered on a particular discipline. The Humanities Division, however, also offers a Specialist Programme in the Humanities and a College Programme in the Humanities which involve students in a wide range of Humanities disciplines: these programmes are outlined below. Following these programmes is a list of courses which will appeal to students who wish to explore the Humanities outside the traditional disciplinary framework. For the most part, these courses offer an alternative to examination within in current precise national, historical, and disciplinary boundaries, opting instead to restrict subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly attractive point of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a loose historical period, or a movement of broad cultural relevance.

Humanities courses fall into the following broad categories, for all of which HUMA01Y serves as a useful, though not always a required, prologue.

Civilization and Culture
HUMA01Y Prologue
HUMB13Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realities
HUMB14Y Topics in Latin American Culture and Literature
HUMB15Y The Civilization of Spain
HUMB17Y The European Experience: Man and Society in the Twentieth Century French and Italian Novel
HUMB18S Modernity
HUMB19F Beyond Consciousness
HUMB22F The Age of Pericles
HUMB23S The Age of Augustus
HUMB24S The Age of Nero
HUMB25F The Age of Homer
HUMB31Y The Darwinian Revolution

*Students should check these courses for prerequisites.
see also:

**Classical Civilization:**
- CLA01Y Classical Civilization
- CLA02Y Greek and Roman Epic
- CLA03Y Greek and Roman Tragedy
- HUM05S The Crisis of Contemporary Society in Modern Italian Drama
- HUM002Y Twentieth Century Latin American Novel and The European Tradition

**Russian Culture:**
- RUS01Y Russian Culture
- RUS02Y Machiavelli and Aspects of the Italian Renaissance

**German Literature:**
- GER01Y German Literature
- GER02Y The Holocaust in German Literature

**German Drama:**
- GER03Y The Nineteenth Century Russian Novel, 1830-1860

**Latin American Drama:**
- LAM01Y Latin American Drama
- LAM02Y Mexican Literature

**Russian Literature:**
- RUS01Y Russian Literature
- RUS02Y The Nineteenth Century Russian Novel, 1830-1860
- RUS03Y Twentieth Century Russian Fiction, 1900-1940
- RUS04Y Soviet Russian Underground Literature from the 1920’s to the Present

**Women’s Studies:**
- HUM61Y Women in Ancient Greece
- HUM64Y Women in Western Civilization
- HUM65Y Women’s Studies

**Theater:**
- HUM85Y Theater

**The Holyland:**
- HUM03Y The Holyland
- HUM04Y The Holyland: An Introduction to the Study of Religion

**Philosophy:**
- PHI01Y Philosophy

**Film Studies:**
- FILM01Y Film Studies

**Music:**
- MUS01Y Music

**Composers:**
- MUS02Y Composers

**Interdisciplinary Studies:**
- Interdisciplinary Studies
- Interdisciplinary Studies

**Interdisciplinary Studies:**
- Interdisciplinary Studies

**Interdisciplinary Studies:**
- Interdisciplinary Studies

**Interdisciplinary Studies:**
- Interdisciplinary Studies

**Interdisciplinary Studies:**
- Interdisciplinary Studies

**Interdisciplinary Studies:**
- Interdisciplinary Studies

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**HUMA01Y Prologue**

Twenty books of central importance in Western civilization.

A comprehensive examination will be given at the completion of each subset of ten books.

There is a one-hour tutorial for each book. The examination will stress the student’s ability to relate the books in his own way, rather than to remember minute aspects of plot and character.

At weekly informal sessions guest leaders will present aspects of each work through lectures or other media. Fall Term: The Bible (selections): Homer, The Odyssey; Sophocles, Oedipus Rex; Plato, The Last Days of Socrates; Herodotus, Histories; Virgil, Aeneid; Augustine, Confessions; Dante, Inferno; Beowulf, Boccaccio, Decameron, Spring Term: Machiavelli, The Prince; Cervantes, Don Quixote; Montaigne, Essays; Vasari, Lives of the artists; Galileo, Discoveries and Opinions; Goethe, Faust; Marx, Communist Manifesto; Darwin, Origin of Species; Freud, Interpretation of Dreams; Pushkin, The Bronze Horseman.

For information on appropriate editions of these works, see the co-ordinators. Titles may change if editions become unavailable.

* "What’s past is prologue" - Shakespeare, The Tempest, 1.1.

Session: Winter Day

Co-ordinators: C. Ponomareff, J. Warden

**JHS01Y Introduction to Women’s Studies**

Women and their roles and relationships in various societies. Taught by members of the disciplines of Anthropology, Classics, English, French, History, Linguistics and Sociology. The course provides an overview of the problems investigated by specialists in women’s studies and teaches how to use the methodologies of a range of disciplines to explore these problems.

Areas for discussion include women and mythology, women and power, women’s roles in the family, and women and literature. Among the particular topics are: the origins of misogyny, sexual stereotypes, poetry and propaganda; and the family - myth and reality.

Session: Winter Day

Co-ordinators: S. Namishita, L. J. Abraj

**HUMA01Y The Humanities College Program**

The Humanities College Program is designed for the student who wishes what has been known as a "liberal education." The Program will seek to develop the critical intellectual skills of the student and to acquaint him with basic forms of knowledge in several areas of human endeavor. It will accomplish this by developing a coherent group of courses, within the framework established below, for each student registered in the Program.

Nine (9) full-course equivalents are required, as follows:

1. HUMA01Y
2. HUMA02Y
3. HUMA03Y
4. One full-course equivalent in the arts: DRA, FAR, MUS
5. One full-course equivalent in the humanities: LIT, SOC, PHI
6. One full-course equivalent emphasizing major ideas in the sciences or social sciences: ANT01Y, ANT02Y, SOC01Y, SOC02Y
7. Three further full-course equivalents in Humanities subjects, focusing on one area or theme. (Note: For the purposes of this Program, Mathematics is also considered to be a Humanities subject.) Choice of courses must be approved by the Supervisor.
corporate aspects of religion, as specific traditions are differentiated in varying cultural environments and develop through changing historical circumstances. The second term's work investigates aspects of individual experience and behavior, including mythical and symbolic expressions as well as doctrinal formulations and the philosophical critique of religion. "Para-religious" alternatives and traditional religion in the modern world are also examined. Tutorials on specific topics provide the context for up to two short papers each term. For reading prior to the course, Husson Smith, The Religions of Man, is suggested.

Session: Winter Day J. McAlpine

HUMA11Y Greek and Roman Mythology
The emergence and treatment of myths and legends in the Greco-Roman World
The course will examine the more important myths and legends and their representation in classical literature, drama and art, and will partly be concerned with ancient and modern theories of myth. This course will be useful to students engaged in literary and art-historical studies and will serve as an introduction to other courses in classics.

Session: Winter Day J. Corbett

HUMB15F Beyond Consciousness
An examination of the limits of consciousness from the point of view of various disciplines in the Humanities. The specific content will vary but will focus on one of the following: communication, religion and philosophy, myth-making and poetry.

Prerequisite: At least one of Greek and Latin.

In 1900, the unconscious will be studied insofar as it relates to surgery and modern psychotherapy. The unconscious will be placed on its own terms in literature and drama; the unconscious is the source of inspiration in Orpheus and the Zagreus; the unconscious as a form of violence in literature and the unconscious as a form of art in literature. Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking HUMB15F might wish to consult the following: Brown, New Mind, New Body, Elliott, Yoga: Immortality and Freedom Ostrander and Schroeder, Psychic Discoveries Behind the Iron Curtain and Superlearning, Problems of Suggestology.

Session: Winter Day W.J. Bancroft

HUMB22F The Age of Pericles
A study of the history, literature and art of Athens in the fifth century B.C.

The course will concentrate on the second half of the fifth century. The topics studied will include the leadership of Pericles; the development of democracy; Athens as an imperial power; the confrontation with Sparta; the rise of the sophists; the architecture, sculpture and vase painting of the period. A selection of the literature and art works will also be studied in translation. Most of the classes will consist of lectures, some of which will be given by guest speakers.

Session: Winter Day A. Badalucco

HUMB24S The Age of Nero
Nero's Rome, as it is reflected in the art, architecture, and literature of the day, and in the accounts of later Roman authors.

The course provides an introduction to Imperial Rome, a controversial Emperor, and the striking cultural milieu over which he claimed to preside. We will explore the ideas expressed in Neronian art; how far Emperor controlled their expression; and how far the culture (or counter-culture) of the court shaped, or was shaped by, the forces of a bicultural Empire. A lecture format will be adopted, with frequent use of slides and some opportunity for discussion.

Session: Winter Day J. Corbett and Staff

HUMB363Y Orpheus: The Quest for Beauty
An interdisciplinary seminar, studying the myth of Orpheus as a recurring motif in art, religion, literature, music and film. Material to be included: Virgil, Georgics IV; Ovid, Metamorphoses X and XI; Poliziano, Feste d'Orfeo; Sir Orfeo; Henryson, Orpheus and Eurydice; Calderon, El Divino Orfeo; Monteverdi; Orfeo; Gluck, Orfeo, Offenbach, Orpheus in the Underworld; Rilke, Sonnets to Orpheus; Anouilh, Eurydice; Cocteau, Orpheus, Black Orpheus.

Exclusion: (HUMB08) Session: Winter Day J. Warden

HUMB38F Utopia: From More to Huxley
A study of major schemes for the total improvement of mankind and the solution to radical evils in society. The millenarian tradition, authoritarian and libertarian utopian ideas, anti-utopians, and experiments in communal living. Practical applications and consequences of utopian thought.

Session: Winter Day W.C. Graham

HUMB44F Disaster and the Literary Imagination
An exploration of the historical impact of Nazism and Stalinism, totalitarianism and war on the post-war literary imagination of Soviet Russian and West German writers at the metaphorical level of artistic perception.

The course will also examine the social and cultural relevance of creative writing in response to periods of social crisis. Five authors will be studied: W. Borchert, Ch. Atmatsch, G. Grass, B. Pasternak, H.E. Nissac. Classes will lectures and discussion.

Exclusion: (HUMB02) Session: Winter Day C.V. Ponromanov

HUMB60F Women Artists in Society
An examination of the work of women artists in Visual Arts, Literature, and Performing Arts.

The course will focus on the particular problems facing creative women in contemporary society, and their contributions to their fields. Topics for discussion include: Can specific work by women be said to come directly from their experience as women? How does a woman's role in society affect her creativity? Who comprises the 'Art Audience' and how receptive is it to women artists? What alternatives to the cultural establishment have been initiated by women? The class will meet in one- or two-hour sessions per week. The teaching method will involve lectures with class participation encouraged, film, slides, and occasional guest speakers.

Session: Winter Evening B. Hall

HUMB64Y Literary Considerations and Feminism
A discussion of the implications of a primarily male dominated literary tradition. Examples will be drawn from American, British, Canadian, and European literature.

The purpose of the course is to consider the problem of the literary tradition in which the Centre of human consciousness is predominantly male and in which "woman" is usually regarded as the "other". The course is exploratory in nature, and in consequence, student participation is personality important. Texts will include Kate Millett's Sexual Politics and Swift's The Author's Words. Women.

Prerequisite: Either one course in English or one in Women's Studies

Session: Winter Day S. Namjo

HUMB70Y Introduction to Cinema
An introduction to the vocabulary of film criticism, major aesthetic approaches and general history (silent and sound).

NOTE: There is a screening fee of $20.00 for this course.

Session: Winter Day M.Q. Schenck

HUMB80Y Creative Writing: An Introduction
An introduction to the writing of poetry and short fiction.

This course will provide students with the experience of writing, discussing and revising their work in a workshop format. It will also provide special work on techniques and form, and consideration of a few major contemporary writers to facilitate technical discussions. Limited enrolment: 16.

Prerequisite: Admission by portfolio. This requirement may be replaced by interview at the discretion of the instructor.

Session: Winter Evening R.M. Brown

HUMB81F Lyric Poetry of the Middle Ages in the Mediterranean Area
A comparative analysis of the representative texts or collections of texts from Hispanic-Italian, Galiciaco-Portuguese, Castilian, Provencal, Catalan, Sicilian and Italian sources.

In close reading of texts will be supplemented by lectures concerning Classical and Medieval Romances and Arts of Poetry, versification, metrics and basic Medieval rhetorical terminology. Texts will be presented in original with accompanying English translations.

Lectures and discussion in English.

Prerequisite: One B-level course in either Romance Literature or English Literature.

Session: Winter Day R. Barts

JHSC01H Senior Project in Women's Studies
A research project chosen by the student and supervised by the Supervisor in Women's Studies, and supervised by one faculty member. After the topic has been approved, a second reader will be appointed.
The student will write a substantial essay or give a major presentation on an approved topic in Women's Studies.

The course is designed for students completing the Major Programme in Women's Studies and is normally taken after completion of ten full-course equivalents.

Students are advised to design a project in an area in which they have already done some concentrated study and, where possible, to build upon work taken in previous courses.

Arrangements with the faculty in Women's Studies and the supervisor must be made by the student before the end of the pre-registration period in the spring.

Prerequisite: Open to students majoring in Women's Studies who have already completed 10 FCEs.

Session: Winter Day

HUMB10H Humanities Seminar

A special half-credit seminar course, taken normally after the completion of ten credits. Each member of the seminar gives a report of individual projects undertaken by him.

This seminar is required for those registered in the Specialist Programme in Humanities and in the History of Ideas, and in the College Programme in Myth and Religion. It is taken after completion of ten full-course equivalents. It is available to students registered in the Pro- grammes in Renaissance Studies. Topics for the seminars should be chosen in consultation with the Supervisor. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.

Prerequisite: Any ten courses.

Session: Winter Day

Co-ordinator: W.C. Graham

HUMB19F Comparative Study of Contemporary Fiction

A study of twentieth century works of fiction from several continents with emphasis on convergent developments in narrative content, form, theory.

The course will examine common themes such as individual and group responsibility, the formative role of national or local culture and the subjectivity of truth, instead of perception. It will also study similarities in authorial treatment of reader, narrator, character, action and setting.

Among the books studied are: A. Gide, The Immoralist; M. Bulgakov, The Master and Margarita; G. Grass, Cat and Mouse; J. L. Borges, Labyrinths (selections); and I. Calvino, The Watcher and other stories.

The course will meet for two hours of lectures and discussion per week.

Prerequisite: One B-level course in literature or permission of instructor

Session: Winter Day

S. Mitter

HUMB31F, C392S, C393Y Supervised Readings

Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses.

The student should submit to the Supervisor of the Humanities Programme a statement of objectives and proposed content for the course; this should be done by 15 April for Fall and Y terms and by 1 December for S. Courses If the proposal is approved, the Board of Studies will ensure that two faculty members from relevant disciplines will supervise and evaluate the work.

Prerequisite: Three B-level full course equivalents in the Division of Humanities.

Session: Winter Day

Supervisor: W.C. Graham

HUMB25S-C99Y Individual Study Year

An opportunity for advanced students to spend a year following their own studies under the supervision of a committee of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in their chosen areas, and will take an oral examination at the end of the year before an appropriate board of faculty. Those interested in enrolling should contact the Divisional Chairperson by the end of May 1981. (For a year of individual study, students must enrol in all five courses. Those who wish to take Individual Studies should consult disciplinary listings.)

Prerequisite: Permission of the Division of Humanities Committee on Individual Study.

Session: Winter Day

Staff

Courses Not Offered in 1982-83

JHS804Y The Bloomsbury Group

Prerequisite: Normally three courses selected from Art History, Economics, English, Philosophy or Political Science at least one of which should be in English Literature.

HUMB13Y The Russian Revolution of 1917: Promise and Fulfilment, Ideals and Realties

Exclusion: (GERB40)

HUMB14Y Topics in Latin American Culture and Literature

Exclusion: (SPA83B)

HUMB15Y The Civilization of Spain

Exclusion: (SPA80B, SPA809)

HUMB17Y The European Experience: Man and Society in the Twentieth-Century French and Italian Novel

Exclusion: (HUMB303)

HUMB18S Modern Italy

Exclusion: ITAB20

HUMB20Y Primitive Christian Literature and Myth

Prerequisite: No formal prerequisites, but some knowledge of the biblical literature will be presupposed. Greek is desirable but not required.

HUMB21S The Literature of the Spanish Mystics

Exclusion: (SPA837)

HUMB22S The Age of Augustus

HUMB25F The Age of Homer

HUMB26Y Women in the Major Western Religions

HUMB27S Science Fiction

HUMB28Y Major Religious Traditions, East and West

HUMB29S Religion and Western Culture

HUMB33Y World Views from the late Middle Ages to the Renaissance

HUMB34F/S Hercules: Man of Action

Exclusion: (HUMB306)

HUMB35F "The Ulysses Factor"

Exclusion: (HUMB307)

HUMB37F/S Atlantis

Exclusion: (HUMB309)

HUMB39F Fantasy in Narnia and Middle Earth

Exclusion: (HUMB305)

HUMB40Y Russian and English Nineteenth Century Fiction

Exclusion: (HUMB311)

HUMB42S Tartar and the West

HUMB43F/S The Emergence of Modern Prose

Exclusion: (HUMB301)

HUMB45S The Spanish Civil War: Fact to Fiction

HUMB50S Machiavelli and Aspects of the Italian Renaissance

Exclusion: ITAB33

HUMB50Y The Development of German Drama

Exclusion: (GERB43)

HUMB51Y Masterpieces of the German Novel from the Eighteenth Century to the Present

Exclusion: (GERB43)

The Holocaust in German Literature

The Crisis of Contemporary Society in Modern Italian Drama

Exclusion: (ITAB15), (ITAB16), ITAB27

HUMB53Y The Twentieth Century Latin American Novel and The European Tradition

Women in Ancient Greece

Exclusion: (HUMB41)

Italian Cinema

Exclusion: (HUMB71), (JHB90)

HUMB54Y The Darwinian Revolution

Prerequisite: BIOC05 or BIOC11 or PHLB70 or PHLB71 and permission of instructor.

Advanced Seminar in Literary Theory and Criticism

Prerequisite: Three courses in English, at least one at B-level, or three courses in literature and permission of instructor.

JHEC13Y Romance Philology

Prerequisite: LIN201; two full-course equivalents, one of which must be at the B-level in one of the following languages: French, Italian, Latvian or Spanish. It would also be an asset, but it is not a prerequisite, to have some knowledge of Latin and/or a second Romance language.

HUMB59Y The University

Prerequisite: Any two B-level courses
Italian

Discipline Representative: D. McAuliffe
Scarborough College offers a wide range of courses in the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITAA01 or ITAA11. ITAA01 students may then take ITAB01, which is a prerequisite for literature courses as well as for the more advanced language courses. Students with Grade 13 Italian (or equivalent) and students from ITAA11 may take ITAB11 as a prerequisite for literature and more advanced language courses. In all courses, emphasis is given to the spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as adjuncts to his plan of study or as an enrichment of his total programme. Similarly, certain aspects of study in Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, and Spanish Literature.

Students enrolled in Italian, some of whom may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students are not allowed to take any A-level courses in Italian while taking or after completing any B-level course in Italian.

Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Major Programme in Italian Language
Supervisor: G. Katz (284-3307)

The Major Programme in Italian Language consists of seven full-course equivalents, as follows:

Option A (for students who have no prior knowledge of Italian or its dialects):

1. ITAA01Y Introductory Italian
2. ITAA02H Introductory Italian Language Practice
3. ITAA03S Conversation II
4. ITAB01Y Intermediate Italian I
5. ITAB02F Intermediate Conversation I
6. ITAB04FS Advanced Composition
7. ITAB05S Intermediate Conversation II or ITAB05F/S Practical Translation
8. ITAC01Y Language Practice
9. ITAB22F Introduction to Modern and Contemporary Italian Literature
10. ITAL01Y General Linguistics

Option B (for students with some prior knowledge of Italian or one of its dialects):

1. ITAA11Y Elementary Italian
2. ITAA03S Conversation II
3. ITAB11Y Intermediate Italian II
4. ITAB02F Intermediate Conversation I or ITAB04FS Advanced Composition
5. ITAB06S Intermediate Conversation II or ITAB05F/S Practical Translation
6. ITAC01Y Language Practice
7. ITAB22F Introduction to Modern and Contemporary Italian Literature
8. ITAB23S/S Survey of Italian Literature from the Middle Ages to the Renaissance
9. ITAI01Y General Linguistics

Language requirements will be waived by permission of the Supervisor in the case of students judged to have highly advanced knowledge of Italian. Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

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

ITAA01Y Introductory Italian
An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking necessary for the corequisite course A02H. The basic Italian text-book is supplemented by dialogues made up by the students and easy readings comprising as early as possible in the textbook permit. A programme is also provided in the language laboratory for those who wish to make use of it. Students are expected to participate in classroom exercises, hand in written assignments, complete outside the classroom, and write monthly tests. Three hours per week.

Exclusion: ITAA11 Corequisite: ITAA02. It is strongly recommended that students enrolled in ITAA01 and ITAA2 take ITAA3 concurrently with them in the Spring term.

Session: Winter Day D. McAuliffe

ITAA02H Introductory Italian Language Practice
Practical application of the language structures introduced in ITAA01.

As with the corequisite A01Y, our aim is to provide a relaxed, friendly atmosphere in which to learn basic standard Italian. The two hours of class time are devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practice with one another, and as they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest. Corequisite: ITAA01.

Session: Winter Day D. McAuliffe

ITAA03S Conversation II
Practical application of the language structures introduced in ITAA01 and ITAA11.

Students are encouraged to speak Italian in a relaxed, informal classroom atmosphere. Conversations are based on situations that the student is likely to encounter in Italy as well as in readings prepared at home from literary works, newspapers, and magazines. Among the topics chosen are geography, history, politics, economics, and cultural life of contemporary Italy. Students are expected to participate in class discussion, make oral presentations, and take an oral examination. Three hours per week.

Corequisite: ITAA01 or ITAA11
Session: Winter Day S. Mittler

ITAA11Y Elementary Italian
An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

The course aims at giving a basic knowledge of speaking, reading, and writing Italian. The main objective is to free the student from the phonological, lexical, and grammatical ignorance, from both dialects and English, found in the Italian community. Basic grammar rules will be studied and oral and written exercises will be analyzed from the point of view of grammatical structure, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. Three hours of lectures per week; the use of the language laboratory is highly recommended.

Exclusion: ITAA11 Corequisite: ITAA02. It is strongly recommended that students enrolled in this course take ITAA03 concurrently with it.

Session: Winter Day G. Katz

ITAB01Y Intermediate Italian I
A continuation of ITAA01. Intensive review of grammar, with drills, exercises, and compositions.

The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be encouraged to prepare written grammatical exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted
The major modern theme of the individual in society will be examined in selections from the works of influential novelists, poets and dramatists of the nineteenth and twentieth centuries. Texts include works by Marzini, Leopardi, Verga, Pirandello, Pavese, D'Annunzio and Calvino.

This course will be conducted in Italian and will be a combination of lectures and discussion. Exclusion: ITA2B1
Prerequisite: ITA2B1 or ITA1B1
Session: Winter Day
S. Mittler

**ITAL35** Survey of Italian Literature from the Middle Ages to the Renaissance

An introduction to the main literary movements, masterpieces and authors from the beginning of Italian literature to the end of the sixteenth century. This course is intended to give the students a knowledge of the early development of Italian literature in its historical context as well as to develop the students' abilities to read the early literary language of Italy. The passages to be read and discussed will be taken from the "Dolce Stil Novo", Dante's Divine Comedy, Petrarch's Canzoniere, Boccaccio's Decameron, Poliziano's Stanzan, Machiavelli's Mandragola, Ariosto's Orlando Furioso, Tasso's Gerusalemme Liberata, Lectures and discussion in Italian.
Exclusion: ITA2B1
Prerequisite: ITA2B1 or ITA1B1
Session: Winter Day
D. McAlvife

**ITAB33R** Machiavelli and Renaissance Thought

The origins of the Italian Humanism with Petrarch and Boccaccio, its development in the XV Century with Valla, Ficino and Pico, its full flowering in the Renaissance with the political theories of Machiavelli and Guicciardini. A study of Castiglione's "The Courtier". The purpose of this course is to acquaint the student with the ideas, mentalty, social and cultural attitudes of mankind in the Renaissance. After a general introduction to the main aspects of the period, its differences from the Middle Ages and its historical background, attention will focus on Machiavelli's "Il Principe" and Castiglione's "Il Cortegiano". These works will be examined both from the point of view of their context in the Renaissance thought and for their impact on the development of European politics and of the role of the gentleman up to modern times. Three class hours per week.
Exclusion: HUMB50
Prerequisite: ITA2B1 or ITA1B1
Session: Winter Day
A. Franceschetti

**ITAL41S** Italian Eighteenth Century Theatre

The development of dramatic theory in eighteenth century Italy. This course is designed to give students a knowledge of the major authors and works which characterize eighteenth century drama. Selections from Metastasio, Goldoni and Alfieri will be discussed. Stress will be placed on dramatic theory and on the evolution of tragedy, the origin of melodrama as well as on the rapport between the development in comedy and the Commedia dell'Arte. Lectures and discussion in Italian.
Prerequisite: ITA2B1 or ITA1B1; a course in Italian literature such as B22F and B25S is recommended, but not required.
Session: Winter Day
A. Franceschetti

**ITAC01Y** Language Practice

An advanced language course focusing on complex problems of Italian grammar, with readings, translations and compositions. This course is designed to give students an opportunity to improve their knowledge of written and oral Italian on an advanced level. Specific points of grammar, syntax and style will be discussed and exemplified with drills and exercises. Students will be asked to write short
### Joint Courses

For a description of these courses please refer to the disciplines concerned:

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Course</th>
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<tr>
<td>Biology and Chemistry</td>
<td>JBCB35Y Introductory Biochemistry</td>
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<tr>
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<td>JBCB36H Laboratory in Chemistry</td>
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<tr>
<td>Commerce and Economics</td>
<td>JCEB54S Industrial Relations</td>
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<td></td>
<td>JCEB72F Analysis for Decision Making I</td>
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<td></td>
<td>JCEB73S Analysis for Decision Making II</td>
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<td></td>
<td>JCEC02Y Corporation Finance</td>
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<td></td>
<td>JCEC04S Public Policy Towards Business</td>
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<td></td>
<td>JCEC70F Advanced Corporate Finance</td>
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<td></td>
<td>JCEC75S Investments</td>
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<tr>
<td>Commerce and Sociology</td>
<td>JCSB27Y Organizational Behaviour</td>
</tr>
<tr>
<td>Humanities and English</td>
<td>JHEC13Y Advanced Seminar in Literary Theory and Criticism (not offered 1982-83)</td>
</tr>
<tr>
<td>Humanities and German</td>
<td>JHGB50Y The Development of German Drama (not offered 1982-83)</td>
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<td>JHGB51Y Masterpieces of the German Novel from the Eighteenth Century to the Present (not offered 1982-83)</td>
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<td>JHGB52F The Holocaust in German Literature (not offered 1982-83)</td>
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<tr>
<td>Humanities and Italian</td>
<td>JHIB71F Italian Cinema (not offered 1982-83)</td>
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<tr>
<td>Humanities and Social Science</td>
<td>JHSB50Y Introduction to Women's Studies</td>
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<td></td>
<td>JHSB50Y The Bloomsbury Group</td>
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<td></td>
<td>JHSD01H Senior Project in Women's Studies</td>
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<tr>
<td>Linguistics and Psychology</td>
<td>JLP555F Psycholinguistics</td>
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<tr>
<td>Mathematics and Computer Science</td>
<td>JMCC31F Combinatorics</td>
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<td></td>
<td>JMCC32F Graph Theory and Algorithms for its Applications (not offered 1982-83)</td>
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<td></td>
<td>JMCC51S Numerical Methods</td>
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<tr>
<td>Mathematics and Philosophy</td>
<td>JMBB50F Symbolic Logic</td>
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<td></td>
<td>JMPC51S Symbolic Logic II</td>
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<tr>
<td>Physics and Astronomy</td>
<td>JPAC101Y Relativity and Cosmology</td>
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<tr>
<td>Physics and Mathematics</td>
<td>JSCA24S Advanced Classical Mechanics</td>
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<tr>
<td>Spanish and Drama</td>
<td>JSDA24F Golden Age Drama (not offered 1982-83)</td>
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</tbody>
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### Courses Not Offered in 1982-83

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite</th>
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<tr>
<td>ITAB04F/S</td>
<td>Advanced Composition</td>
<td>ITAB01 or ITAB11</td>
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<td>ITAB12F/S</td>
<td>The Twentieth Century Novel</td>
<td>ITAB01 or ITAB11</td>
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<td>ITAB27S</td>
<td>Modern Italian Theatre from Pirandello to the Present Day</td>
<td>ITAB01 or ITAB11</td>
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<td>ITAB32S</td>
<td>Petrarch and Boccaccio</td>
<td>ITAB01 or ITAB11</td>
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<td>ITAB34F</td>
<td>The Renaissance Epic</td>
<td>ITAB01 or ITAB11</td>
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<td>ITAB35F</td>
<td>Italian Sixteenth Century Theatre</td>
<td>ITAB01 or ITAB11</td>
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<tr>
<td>ITAB36F/S</td>
<td>Lyric Poetry of the Renaissance (from Poliziano to Michaelangelo)</td>
<td>ITAB01 or ITAB11, a course in Italian literature, such as ITAB22F and B23S, is recommended but not required.</td>
</tr>
<tr>
<td>ITAB40S</td>
<td>Reformation and Baroque Literature</td>
<td>ITAB01 or ITAB11</td>
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<tr>
<td>ITAB43S/F</td>
<td>Foscolo and Leopardi</td>
<td>ITAB01 or ITAB11</td>
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*Staff*

**ITAB44F/S** Manzoni
Prerequisite: ITAB01 or ITAB11

**ITAB45F**

**JHIB71F**
Prerequisite: ITAB01 or ITAB11

Italian Cinema
Exclusion: (HUMB71), (JHIB90)
### Language and Literature

**Specialist Programme**
- **Supervisor:** R. Barra (284-3269)

Students wishing to follow this Specialist Programme should complete the Major in Language and Literature in two of the following disciplines:
- English
- French
- Classical Studies (Greek or Latin)
- German
- Italian
- Russian
- Spanish

In addition, one full-course equivalent should be chosen from the following, the choice to be approved by the Supervisor.

- **ENGB95Y** English Literary Criticism
- **FARA10F** Ancient Art and Architecture
- **FARA11S** Medieval Art
- **FARA12F** Renaissance and Baroque Art
- **FARA13S** Modern Art 1750 to the Present
- **HUMA01Y** Prologue
- **HUMA11Y** Greek and Roman Mythology
- **PHLB03F/S** Philosophy and Art
- **PHLB04F/S** Philosophy in Literature

Courses are offered in introductory Latin (LAT101, LAT110) and Latin literature (LATB01, LATB30, etc.).

- **LATB01** Introductory Latin
- **LATB10F** Introduction to Latin Authors
- **LATB10S** Catullus
- **LATB20F** Latin Authors II
- **LATB30F-34F**
- **LATB35S-39S**
- **LATB40Y** Supervised Reading

For further information see under Classical Studies.

### Latin

Courses are offered in introductory Latin (LAT101, LAT110) and Latin literature (LATB01, LATB30, etc.).

- **LATB01** Introductory Latin
- **LATB10F** Introduction to Latin Authors
- **LATB10S** Catullus
- **LATB20F** Latin Authors II
- **LATB30F-34F**
- **LATB35S-39S**
- **LATB40Y** Supervised Reading

For further information see under Classical Studies.

### Linguistics

**Discipline Representative:** R. I. Binnick (284-3314)

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LIN101, LIN111, and LIN304). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LIN207, JLPB355, LIN315 and other courses. Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LIN314, LIN326 and LIN327.

**Specialist Programme in Linguistics**
- **Supervisor:** R. I. Binnick (284-3314)

The Specialist Programme in Linguistics may be taken in one of three ways, depending on whether the student wishes to focus on general linguistics, psycholinguistics, or sociolinguistics. Each involves a core of four basic full-course equivalents, as follows:

1. **LINB01Y** General Linguistics
2. **LINB11Y** Syntax and Semantics
3. Two of:
   - **LINB09F** Phonetics
   - **LINB03S** Phonology
   - **LINB30S** Historical and Comparative Linguistics
4. **LINC21Y** Structure of a Language
   
   or
   
   **LINC22Y** Comparative Study of a Language Family or Area

In addition to these, students must choose one of the following three areas of concentration:

1. **General Linguistics Concentration:**

   Students must complete nine additional full-course equivalents, to be constituted as follows:

   5. **LINB07Y** Sociolinguistics
      
      or two of:
      
      - **JLPB55F** Psycholinguistics
      - **LINB15S** Developmental
      - **LINB25F** Second Language Learning
      - **LINB27F** Animal Communication and the Nature of Language

   6. Four further full-course equivalents in Linguistics, not to include LINA04F/S

   7. One full-course equivalent from among the following courses:
      
      - **ANTB30Y** Language and Culture
      - **ENGB01Y** Old English Language and Literature

   8. Two further full-course equivalents in Linguistics, not to include LINA04F/S

   9. Students should check these courses for prerequisites.

II. **Psycholinguistics Concentration:**

   Students must complete ten additional full-course equivalents, to be constituted as follows:

   5. Two of:
      
      - **JLPB55F** Psycholinguistics
      - **LINB15S** Developmental
      - **LINB25F** Second Language Learning
      - **LINB27F** Animal Communication and the Nature of Language

   6. Two further full-course equivalents in Linguistics, not to include LINA04F/S

   7. **PSYA01Y**

   8. Four full-course equivalents from among the following:
      
      - **PSYB07F** Data Analysis in Psychology
      - **PSYB09S** General Experimental
      - **PSYB20F** Developmental Psychology
      - **PSYB40F** Learning
      - **PSYB41F** Sensation and Perception
      - **PSYB51F** Perceiving and Knowing
      - **PSYB52S** Human Information
      - **PSYB57S** Human Learning and Memory

   9. Students should check these courses for prerequisites.
Students must also complete either four other full-course equivalents in LIN or three other full-course equivalents in LIN plus one C-level full-course equivalent in a language. (Only the first option is permitted when this program is taken as part of the Modern Languages Specialist Program.) JLP556F can be included as a LIN course. LIN/100 cannot be counted towards the Major.

**LINA01Y General Linguistics**
An introduction to the major methods of linguistic analysis, as well as to the form and content systems which comprise language.

Among the questions considered will be: the processes of producing and comprehending speech, first and second language acquisition, and the ideal structures which underly actual utterances.

This is a lecture course with tutorial sections for discussion. The textbook is normally an introductory textbook, such as Fromkin and Rodman's *Introduction to Language*, and will provide most of the readings; there will also be a workbook with problems for homework and classroom discussion.

Session: Winter Day 2001

**LINA04F/S Introduction to Language**
A general introduction to the nature of language. This is a non-technical introduction and cannot serve as a prerequisite for further linguistics courses (unless specified).

The course will examine language communication: under what conditions it takes place, how it modifies and affects the human condition and the realities of social life and is in turn modified and affected by them. Among the topics covered will be: the relationship of written and spoken language; the history of English and related languages; the problem of bilingualism in Canada; animal communication; speech disorders. There will be lectures, discussions, films. The text used will be Haugen/Bloomfield, *Language as a Human Problem*.

Exclusion: LINA04 may not be taken by students who have credit for LINA01Y. LINA01 and LINA04 may not be taken in the same session.

Session: Winter Day, Winter Evening

**LINA02S Phonology**
The sounds of language and their analysis; theoretical approaches to the sound patterns of various languages. Synchronic and diachronic analysis of sound systems.

An introduction to phonological theory and method, especially such areas as segmental phonology, phonological patterns, distinctive features, redundancy, phonological processes, phonological rules, underlying representations, ordered rules, derived representations, nonphonological effects, and natural phonology. We will discuss material from the text and problems which are to be solved. Three hours a week.

Prerequisite: LINA01
Session: Winter Day 2001

**LINA03F Historical and Comparative Linguistics**
Language change and language relationships: linguistic typology, language universals, language families.

Topics for study include: models of language development (e.g., grammarian, structuralist, transformational-generative); language contact; dialect geography; social motivation of language change; contact between languages, language prehistory. Three hours a week.

Prerequisite: LINA01
Session: Winter Day 2001

**LINA07Y Sociolinguistics**
The study of language in relation to society, theory, and practice.

The course has a twofold objective: theoretical and practical. The theoretical part deals with the speech situation, social implications of speech variety, attitudes toward language or language usage, language maintenance, bilingualism, and multi-lingualism, role of language in shaping national identity and influencing political boundaries. On the practical side, students participate as a group in actual research, collecting and analyzing data and preparing a report of their findings.

The text will be R.A. Hudson, *Sociolinguistics*, Cambridge University Press, 1980. Prerequisites: LINA01 or SOC101 or SOC102; LINA04 with permission of instructor.

Session: Winter Day 2001

**LINA08F Phonetics**
The physiological and acoustic bases of language.

An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions. We will discuss material from the text and problems which are to be solved.

Prerequisite: LINA01
Session: Winter Day 2001

**LINA11Y Syntax**
The study of sentence structure, including the major grammatical processes. Some of the topics to be studied are: transformational rules, the principle of the cycle, the relationship between syntax and semantics. This is a lecture course with discussion. The textbook is normally an introductory text, such as Anbajian and Henry, *Transformational Syntax*. Prerequisite: LINA01
Session: Winter Day 2001

**LINA12S Semantics**
The role of meaning in the structure, function and use of language. Topics include lexical (word and idiom) meaning, conveyed vs. literal meaning, the role of world knowledge and other presuppositions in understanding language, and the relationship between form and content in sentences and larger linguistic units. Prerequisite or Corequisite: LINA11Y
Session: Winter Day 2001

**LINA15S Developmental Psycholinguistics**
The development of the facility for speech in childhood. Acquisition of a first language. The neuro linguistic prerequisites for speech and writing. This course is a continuation of JLP556.

All you always wanted to know about how kids learn to talk, but were afraid to ask. There will be lectures and discussions. Prerequisite: One full-course equivalent in LIN, PSY, SOC101, ANT. Session: Winter Day 2001

**LINA25F Second Language Learning**
The psychological, sociolinguistic and linguistic factors which affect the ability of a child or an adult to learn a language after a mother tongue has been acquired.

The course begins with an examination of the theoretical cognitive basis of second language learning and a comparison with child first language acquisition. In the second section, the
question of individual differences among learners (in attitude, intelligence, and personality) is discussed with respect to the success or failure of second language mastery. The third topic involves the strategies which learners adopt, either consciously or unconsciously, to learn the language more effectively and to communicate, given their limited knowledge of the language.

Finally, all these issues are assimilated in an attempt to produce a coherent description of second language communicative competence.

There will be lectures and discussion based on assigned readings. The text will be H. D. Brown, Principles of Language Learning and Teaching. Prerequisite: One linguistics course or language course involving the study of grammar. One psychology course recommended.

Session: Winter Day
E. Bialystok

LINB825S Language and Sex
Linguistic differences between males and females are viewed by their speakers. Do women speak more "correctly" than men? Is women's speech more polite? Do men speak more "forcefully"? Do women talk more than men? Evidence for and against such hypotheses will be discussed. Differences in language in other languages will also be examined, and also non-verbal communication. In addition, we will look at phenomena which reveal attitudes towards the sexes, such as sex-exclusive dictionary terms and the use of noun classifiers in various languages. The underlying causes of these phenomena will be discussed. There will be lectures and discussions.
Prerequisite: One full course or equivalent in LIN, SOC, ANT, ENG, or PSY.
Session: Winter Day
D. James

JLPS85F Psycholinguistics
Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.

The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationship between human language and phylogeny will be discussed.

Lectures, films, and discussion.
Prerequisite: LINB901
Session: Winter Evening
E. Bialystok

LINC01F
LINC02S
LINC03S
LINC04S Supervised Reading
LINC05Y

LINC10Y Studies in Syntax and Semantics
Topics in syntactic and semantic theory. Readings and discussion in areas of advanced study.
Prerequisite: (LINB03) or LINB11
Session: Winter Day
R. Binnick

LINC21Y Structure of a Language
Linguistic theory put to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.
Prerequisite: (LINB03) or LINB11
Session: Winter Day
R. Binnick

LINB04S Scripts
Prerequisite: LINB01 or LINB04
Session: Winter Evening
E. Bialystok

LINB26S Languages of the World
Prerequisite: LINB01, LINB04 or one course in Psychology or Anthropology
Session: Winter

LINB27F Animal Communication and the Nature of Language
Prerequisite: One course in LIN, or PSY, or SOC or ANT
Session: Winter

LINC12F Dialectology
Comparative Study of Language Family or Area

Mathematics

Courses Not Offered In 1982-83

LINB05S
LINB26S
LINB27F
LINC12F
LINC22Y

Staff

The development of mathematics was induced by the inherent need to describe and analyse elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems which can be deduced from them. While mathematics is not necessarily initially motivated by practical considerations, there are numerous instances where the solution of problems in other branches of science has been based upon previously developed pure mathematical theory. The wide applicability of both the techniques of the subject and the method of reasoning employed suggests that most students could profit by taking some courses in mathematics.

Comparison of "A" Level Calculus Courses

MATASSY Calculus with Analysis
MATB26Y Calculus
MATB34Y Techniques of Calculus
MATB42Y Introduction to Calculus

MATA55 is a theory course. The emphasis is on why theorems are true, and students are expected to learn how to follow this logic and how to develop proofs themselves. A student who completes MATA55 together with MATA40F and MATA45S may take any of the second year Mathematics courses.

MATA26 is a practical course taught at a higher level. The emphasis is on applications rather than theories. A student who completes MATA26 may take MATB41F, MATB42S, STA52: STA57S in second year.

MATB27 is intended for Commerce and Economics students who do not expect to take MATB41F, MATB42S in second year.

MATC22 is an introductory calculus course for students who have had no previous experience with calculus. It satisfies prerequisites for certain courses but does not qualify a student to proceed to any further courses in Mathematics, Computer Science or Statistics.

Irrespective of course prerequisites, Grade 13 students are urged to prepare themselves by taking as many of the Grade 13 mathematics courses as possible.

Specialist Programme in Mathematics

Supervisor: J. B. Wilker (294-3192)
The Specialist Programme is designed to give students a thorough grounding in the main areas...
of Mathematic. It is aimed at those students who may wish to pursue a career in mathematical research, teaching or in applications within government and industry.

In this Programme a total of eleven full-course equivalents is required.

First year: MAT4A0F, MAT4A55, MAT4A55Y, CSCA58F and SCZA68F,

Second year: MATB25Y, MATB44F, MATB49S, MATB50F, MATB55S, STAB52F, STAB57S,

Third year: MATC49S, MATC51F, MATC56S, MATC53Y, MATC60F, MATC65S,

Fourth year: One further half-course from MATB70S, MATC34F, MATC54F, JMC231F, JMCM35, STAC42F, STAC67S, JPCM42S

"Students will normally take MATA55Y followed by MATB50 and MATB55S but may substitute MATA26Y followed by MATB41F, MATB42F and MATB42S.

In any given year, some C-level courses may not be offered. Students should check on this with the divisional office.

Students are urged to choose at least two additional courses in other disciplines where mathematics is applied, such as Astronomy, Biology, Chemistry, Computer Science, Economics and Physics.

Major Programme in Mathematics

Supervisor: J. B. Wilker (284-317)

The Major Programme is designed for students who wish to gain a basic understanding of mathematical technique rather than the full development of the theory. Students with interest in the applications of mathematics and statistics could usefully combine this programme with a major programme in a field involving such applications.

In this Programme a total of eight full-course equivalents is required:

1. MATA26Y or MATA55Y
2. MATA40F, MATA45S, CSCA56F, CSCA68S, STAB52F, STAB57S.
3. MATB41F and MATB42S or MATB50F and MATB55S.
4. One further full-course equivalent from the following groups:
   a. MATC51F, MATC56S, MATC53Y, MATC60F, MATC65S, JMCMC42S.

b. STAC42F, STAC50F, STAC58S, CSCB68F, CSCB754, CSCB49F, JMCMC1F.

In any given year, some C-level courses may not be offered. Students should check with the divisional office.

MATA22Y Introduction to Calculus


Exclusion: MATA26, MATA27, MATA55S, Grade 13 Calculus.

Prerequisite: One Grade 13 course in Mathematics.

Session: Winter Day

MATA25Y Calculus

Limits and continuity, derivatives, related rates, extreme problems, graph sketching, Newton's method, indefinite and definite integrals, numerical integration, Taylor approximation and differential equations.

Students must have a calculator with memory and the exponential logistic and trigonometric functions and their inverses. MATA26Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop these ideas by the investigation of specific examples. MATA26Y is a demanding course which will equip the student for most sciences and for further work in mathematics.

Exclusion: MATA22, MATA27, MATA55.

Prerequisite: Grade 13 Calculus.

Session: Winter Day, Spring Evening

MATA27Y Techniques of Calculus

Limits and continuity, derivatives, applications to related rates and extreme problems, graph sketching, Rolle's theorem and Mean Value Theorem. Indefinite and definite integrals, L'Hôpital's rule, partial differentiation, Lagrange multipliers, first order differential and difference equations, elementary matrix algebra.

Students must have a calculator with memory and the exponential, logistic and trigonometric functions and their inverses. MATA27Y is intended for those Commerce and Economics students who are not expecting to take MATH41/ 42.

Exclusion: MATA22, MATA26, MATA55.

Prerequisite: Grade 13 Calculus.

Session: Winter Day

MATH40F Introduction to Linear Algebra

Systems of linear equations and related matrix algebra. Vector spaces, subspaces, basis, dimension. Linear transformations: range and kernel, matrix representation. Geometry of R^n and P^n. MATH40F is designed for students who intend to pursue further studies in mathematics or science. There is a strong emphasis on the proofs of theorems as well as their applications.

Exclusion: Grade 13 Functions and Relations on Grade 13 Algebra or Grade 13 Calculus.

Session: Winter Day

MATH41F Techniques of the Calculus of Several Variables I

Vector algebra in R^n, lines and planes in R^n, complex numbers, matrices, determinants and linear equations. Functions of several variables, partial derivatives, tangent planes, Jacobian matrix, chain rule and total derivative. Vector fields in R^n. Gradient, divergence and curl. Multiple integrals, spherical and cylindrical coordinates, change of basis and canonical forms for orthogonal and unitary transformations. Diagonalization of quadratic forms.

Exclusion: MATB50.

Prerequisite: MATA26, MATA27 or MATA55.

Session: Winter Day

MATH42S Techniques of the Calculus of Several Variables II


Exclusion: MATB50, MATB55.

Prerequisite: MATB41.

Session: Winter Day

MATH25Y Geometry


Desargues' theorem and Pappus' theorem. Projectivities, homologies, elations. The fundamental theorem of projective geometry.

This course explores some facets of present-day geometric research. In addition, the interplay between geometry and algebra is emphasized.

Exclusion: MATA545.

Session: Winter Day

MATH41F Techniques of the Calculus of Several Variables I

Vector algebra in R^n, lines and planes in R^n, complex numbers, matrices, determinants and linear equations. Functions of several variables, partial derivatives, tangent planes, Jacobian matrix, chain rule and total derivative. Vector fields in R^n. Gradient, divergence and curl. Multiple integrals, spherical and cylindrical coordinates, change of basis and canonical forms for orthogonal and unitary transformations. Diagonalization of quadratic forms.

Exclusion: MATB50.

Prerequisite: MATA26, MATA27 or MATA55.

Session: Winter Day

MATH42S Techniques of the Calculus of Several Variables II


Exclusion: MATB50, MATB55.

Prerequisite: MATB41.

Session: Winter Day

MATH25Y Introduction to Analysis

The least upper bound principle for R, limits in R and R^n, continuous functions in one and two variables, space filling curves and nowhere differentiable functions, existence of extrema on closed and bounded sets, mean value theorems and the fundamental theorems of the calculus, the Riemann integral.

This course is designed for students whose interest in mathematics has been stimulated by their experience in the A26 - B41 - B42 stream and who wish to acquire the analytic techniques which are essential for more advanced work. In particular MATH42S together with MATB42S
may be used instead of MATB5S for prerequisite purposes. There will be a fundamental emphasis on rigorous analytic proofs.

Exclusion: MAT55
Prerequisite: MAT45
Corequisite: MATB42
Session: Winter Day

MATB44F Algebraic Structures I
Groups: subgroups, normal subgroups, quotient groups, homomorphisms, permutation groups, rings: ideals, quotient rings, homomorphisms, Euclidean rings, polynomial rings. Extension fields, roots of polynomials.
Exclusion: (MATC44)
Prerequisite: MAT45
Session: Winter Day

MATB46F Linear Algebra II
Dual spaces, the transpose of a linear transformation, polynomial algebras over a field, prime factorization in F[x], determinants, Cayley-Hamilton theorem, invariant subspaces, canonical forms.
Exclusion: (MATB4)}
Prerequisite: MATB44
Session: Winter Day

MATB50F Analysis
Exclusion: MATB41; MATB42
Prerequisite: MAT45; MATA55
Session: Winter Day

JMP50F Symbolic Logic
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic. An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, quantification theory, or predicate logic and elements of probability theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lecture notes authored by essays and other materials by the instructor, copies of which are distributed, but the emphasis is on techniques.

D. Karfis, R. Montague and G. Mar, Logic:

Techniques of Formal Reasoning
(1) Deductive techniques.
(2) Inductive techniques.
(3) Propositional logic.
(4) Predicate logic.
(5) Quantification theory.
(6) Probability theory.

JPMC43F Linear Algebra III
Inner product spaces, bilinear forms, Sylvester’s law, orthogonal and symplectic groups, tensor products, exterior algebra.
Exclusion: (MATB45)
Prerequisite: MATB49
Session: Winter Day

JPMC48S Algebraic Structures II
Homomorphism theorems, Sylow theorems, finite fields, algebraic closure; the fundamental theorem of Galois theory; the problem of constructing a regular n-gon and trisecting an angle.
Prerequisite: MATB49
Session: Winter Day

JPSN1F Differential Equations
Prerequisite: MATB44 or MATB50 (may be taken concurrently)
Session: Winter Day

JMC51S Numerical Methods

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

A language of the package programs is FORTRAN, for which a brief review will be given.

Exclusion: (MATB53)
Prerequisite: MATA40, MATB42 or MATB55, SC468
Session: Winter Day

JMP51S Symbolic Logic II
A continuation of JMP50F. The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared.

The text is D. Kaisir, R. Montague and G. Mar, Logic: Techniques of Formal Reasoning. Prerequisite: JMP50
Session: Winter Day

JMATC55S Differential Equations II
Session: Winter Day

JMATC60F Complex Analysis I
Complex arithmetic. Polynomials and elementary functions. The Cauchy-Riemann equations. Cauchy's integral formula for integrals of functions and their Taylor expansion. Properties of analytic functions, including Liouville's theorem, identity theorem, maximum modulus theorem, and open mapping theorem. Laurent expansion and classification of isolated singularities. Residue calculus. Prerequisite: MATB55 or MATB42
Session: Winter Day

JMATC65S Complex Analysis II
Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorenz group. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem. Prerequisite: MATC65
Session: Winter Day

STAB52F Probability and Statistics I
An introduction to probability theory and the probabilistic model. Presentations of probability. Marginal probability, statistical independence. Conditional probability, Mean value. Weak Law
MATC54F  Differential Geometry I
Prerequisite: MAT45, MATB42 or MATB55
Corequisite: MATC51
STAC42F  Multivariate Analysis
Corequisite: MATB41
Prerequisite: STAB57 (MATB57)

STAB57S  Probability and Statistics II
Exclusion: ECOB11, (MATB52)
Prerequisite: STAB52 (MATB52)
Session: Winter Day

STAC52F  Experimental Design
The statistical aspects of collecting and analyzing experimental data. Complete randomization and restricted randomization schemes. Factorial designs.
Exclusion: PSYB06, (MATC52)
Prerequisite: STAB57 (MATB57)
Session: Winter Day
M. Evans

STAC57S  Regression Analysis
Exclusion: (MATC67)
Prerequisite: STAB57 (MATB57)
Session: Winter Day

Courses Not Offered in 1982-83

MATA25S  Thinking Mathematically
Prerequisite: One Grade 13 course in Mathematics or permission of instructor

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

MATC29S  Advanced Topics in Mathematics
Prerequisite: MATA45 and MATB42 or MATB55

MATC33Y  Real Analysis
Exclusion: (MATC50), (MATC55)
Prerequisite: MATB49 (MATB40) and MATB55 (in place of MATB55 a student may substitute MATB42 and MATB43)

STAB57S  Probability and Statistics II

The courses in these Programmes encompass the breadth of European and Mediterranean culture running from the late Roman Period and culminating, in the West, in the Renaissance of the fourteenth century.

Specialist Programme in Medieval Civilization
Supervisor: M. Gervers

Students will be expected to complete full course equivalents from the following areas:
1. The Arts (Fine Art, Archaeology, Drama and Music)
2. History
3. Language and Literature
4. Philosophy and Religion

Students are to select three full-course equivalents each from three of the four areas and one from the remaining area. HISS506Y is required of all participants. Two of the ten full-course equivalents must be C-level seminars or C-level reading courses requiring major research papers. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

Arts

Prehistoric Archaeology: Field Methods and Materials
The History of Theatre I
Medieval and Early Tudor Drama: The Texts and their Production
Medieval Art
Carolingian and Romanesque Art and Architecture
The Arts in Northern Europe c. 1400-1500
Music of the Renaissance
Pre-Industrial Technology
Practicum in the History and Structure of the German Language
Roman History from the Gracchi to Nero
Europe in the Middle Ages
Russia from the Thirteenth Century to the Present
The Beginnings of France: Constantine to Charlemagne
The Goa Lands

Language and Literature

ENGB501Y Old English Language and Literature
ENGB502Y Chaucer
ENGB512Y* English Drama to 1642
ENGB501Y Advanced Studies in Beowulf and other Old English Poetry
FREB502F General History of the French Language
FREC502Y* Introduction to Medieval French Language and Literature
GERB503S* Practicum in the History and Structure of the German Language
GERC503F* Introduction to Middle High German
HUMC501F/S* Lyric Poetry of the Middle Ages in the Mediterranean Area
ITAB51F* Dante and Medieval Culture
PETR402F* Petrochi and Boccaccio
LATB501Y Introductory Latin
LATB503F* Supervised Reading
SPAB501F* History of the Spanish Language I
SPAB503F* Medieval Prose Literature
SPAB506F* Medieval Poetry

Philosophy and Religion

CLAB51F* Greek and Roman Religion
CLAB523F/S Christianity in the Greco-Roman World
HUMB501S* Primitive Christian Literature and Myth
HUMB303Y World Views from the Late Middle Ages to the Renaissance
HUMB501Y Jesus in Early Christianity and Judaism
HUMB502S* John: Gospel and Letters
PHLB504F Plato and His Predecessors I
PHLB504S Plato and His Predecessors II
PHLB42F Aristotle I
PHLB43F Aristotle II
PHLB44F Philosophers of the Middle Ages I
PHLB45F Philosophers of the Middle Ages II
PHLB501F/S Philosophy of Religion
PHEL508S Seminar in Philosophy: St. Augustine’s Philosophical Dialogues

* Students should check these courses for prerequisites.
Modern Languages

**Major Programme in Medieval Civilization**
**Supervisor:** G. Trembly (284-3315)

Students will be expected to complete seven full-course equivalents from the following four areas:
1. The Arts (Fine Art, Archaeology, Drama and Music)
2. History
3. Language and Literature
4. Philosophy and Religion

Students are to select two full-course equivalents each from the three of these four areas, and one from the remaining area. HIS006Y is required of all participants. One of the seven full-course equivalents must be a C-level seminar or C-level reading course requiring a major research paper. Independent study in areas not otherwise covered, such as historical geography and linguistics, may be undertaken through reading courses. The curriculum can be supplemented according to the rules of the College by courses on the St. George campus. Course selection must be approved by the Supervisor.

**Specialist Programme**
**Supervisor:** G. Trembly (284-3315)

The Modern Languages Specialist Programme enables a student to gain a high degree of fluency in two languages, or in one language together with a concentration in Linguistics. In the case of every combination, there is a common core for the programme consisting of LIN01Y, General Linguistics, and a choice from a set of courses which relate languages to broader social and historical or cultural areas.

There are ten possible combinations as follows:
- French and German
- French and Italian
- French and Spanish
- German and Italian
- German and Spanish
- Italian and Spanish
- French and Linguistics
- German and Linguistics
- Italian and Linguistics
- Spanish and Linguistics.

For every combination, students must satisfy the following requirements:
1. The courses listed under the Major Programme in two of French, German, Italian, and Linguistics, Spanish.
2. LIN01Y General Linguistics
3. Choose one full-course equivalent from the following, for every combination other than French/Spanish:
   - ANTA01Y Introduction to Anthropology
   - ANTIB30Y Language and Culture
   - HIS01Y European World
   - HUMA01Y Prologue

Note: Although there is no Russian Language Major Programme, students may combine the Russian Language and Literature Major or the Russian and Eastern Studies College Programme with any of the above-mentioned Language Programmes.

Music

**Discipline Representative:** T.J. McGee

Music is one of the liberal arts. The courses at Scarborough emphasize a humanistic approach to the subject and stress the relationship of Music to other subjects such as Fine Art, Drama, History, Languages and Literatures and Philosophy. Individual musical works are studied from two broad points of view: the aesthetic and the historical. The first approach examines the single composition and attempts to understand, explain and illuminate our experience of it; the second approach sees the particular work as an example of larger aesthetic and historical trends and tries to explain these in a historical context. Both approaches rely on the sensitivity of the listener and his ability to communicate. Much of the course work, therefore, is directed towards improving the student's aural awareness and his ability to think and write clearly about all types of music.

All students are encouraged to take advantage of various opportunities which exist in the College for practical music making.

**Major Programme in Music**
**Supervisor:** T.J. McGee (284-3326)

Students are required to complete a total of six full-course equivalents in Music and related areas. The six courses will be made up as follows:
1. MUSAO1Y Introduction to Music
2. MUSB17F/S Materials of Music I
3. MUSD04F/S Music of the Renaissance
4. MUSB02F/S Music of the Baroque Era
5. MUSB06F/S Music of the Classic Period
6. MUSB01F/S Music of the Romantic Period
7. MUSB09H Supervised Performance

A study of the basic materials, principles of design, and cultural significance of representative works of Western and non-Western music, including popular music from the Middle Ages to the present. No musical training is required.

A survey of the styles changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction and style characteristics, and in relation to current trends in the arts. The evolutionary aspects of the various period styles are emphasized as well as the individual characteristics of selected works. There will be three lecture hours per week.

Session: Winter Day
T.J. McGee

**MUSB06Y Music of the Romantic Period**

A study of the music of the 19th century. A detailed study of Romantic musical styles as represented by selected works of the major 19th-century composers. Included are compositions by Beethoven, Schubert, Mendelssohn, Berlioz, Verdi, Wagner, Brahms, Chopin, Liszt and Wolf.

The course will include consideration of the relationship between music and the other arts and an introduction to the sociology of musical romanticism. There will be two lecture hours per week.

Prerequisite: MUSAO1Y or MUSB06Y

Session: Winter Day
J. Mayo

**MUSB09H Supervised Performance**

The study and performance of either vocal or instrumental music, supervised by a member of the faculty.

The practical study of a wide variety of music literature leading to public performance within the College. Instrumental students work in small ensembles arranged to suit the abilities of individual performers. Vocal students work in the Scarborough College Chorus or in small vocal ensembles. Previous experience is necessary for instrumental students, but not for vocal students. There will be two hours of group instruction per week. The formation of instrumental groups (lecture section I) and the arrangement of times will take place during the first week of the fall term. (Consult with music staff in S356.)

For time of chorus rehearsals see timetable (lecture section 2). Students should pre-register but not be admitted to the course unless...
Myth and Religion

Courses Not Offered in 1982-83

MUSB01S Music of the Twentieth Century
   Prerequisite: MUSA01

MUSB02F Music of the Classic Period
   Prerequisite: MUSA01

MUSB04F Music of the Renaissance
   Prerequisite: MUSA01

MUSB05F Music of the Baroque Era
   Prerequisite: MUSA01

MUSB07S The Symphony
   Prerequisite: MUSA01 or MUSB08

MUSB11F Music for the Theatre
   Prerequisite: MUSA01 or permission of instructor.

MUSB12S Stravinsky

MUSB15F Music in Elizabethan England
   Prerequisite: MUSA01

MUSB18S Beethoven
   Prerequisite: MUSA01

MUSC at York University 1982-83

Supervisor: J.H. Corbett (284-3182)

This programme combines an examination of human perception and experience of our religious and mythic heritage and institutions from the anthropological, historical, philosophical, sociological and literary points of view.

College Programme in Myth and Religion

Supervisor: J.H. Corbett

HUMA01Y Prologue
HUMA03Y Introduction to the Study of Religion
HUMA11Y Greek and Roman Mythology
PHLA01Y Fundamental Questions of Philosophy

ANTB02Y Anthropological Study of Religion
ANTB04Y Fact and Fiction in Anthropology

ANTB05Y Systems of Thought
CLAB02Y Greek and Roman Tragedy
CLAB21Y Greek and Roman Religion
CLAB23Y Christianities in the Greco-Roman World

HUSB06Y Europe in the Middle Ages
HUSB13Y Europe in the Reformation Era
1500-1600

HUSB14Y France in the Seventeenth Century (1559-1715)

HUSB44Y Canadian Religious Traditions
HUSB61Y The Beginnings of France: Constantine to Charlemagne

HISC11Y The European Mentality in the Early Modern Period (1500-1700)

HISC43Y Selected Topics in Canadian Religious History
HISC82Y The Literature of the Spanish Mystics
HUMB21F Religion and Western Culture
HUMB25Y The Ulysses Factor
HUMB26Y Fantasy in Norse and Middle Earth

PHLB44Y Philosophers of the Middle Ages I
PHLB45Y Philosophers of the Middle Ages II

SDON01Y Philosophy of Religion
PHLB62Y History of Social Thought

* Students should check these courses for prerequisites.
Natural Science

Sciences for the citizen.
What is a quasar? How many defective genes am I carrying? How many dollars should Canada spend in support of nuclear fusion research? What is a laser? Why didn’t the Green Revolution work? Such questions about the late twentieth century view of the universe in which we live, about the complex technology which affects our present lives and changes public issues are difficult to answer without some knowledge of the methods and concepts of the natural sciences.

The courses listed below may help those students whose primary interests are in the humanities or social sciences and who may lack high school science or mathematics to come into touch with contemporary science.

NSCA02Y Introduction to Natural Science: The Biological Sciences

An introduction to the central ideas of Biology with the aim to acquaint the student with the ways in which these concepts are interrelated. This course is designed for students with no formal background in Biology, and in particular for those whose main interests are not in the Natural Sciences. The functioning of cells and organisms will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies in which these subdivisions of biology have become involved. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods.

Exclusion: Not open to students who are taking or have taken BIOA03

Session: Winter Evening

G.R. Williams

Courses Not Offered in 1982-83

NSCA01Y Introduction to Natural Science: The Physical Sciences

Exclusion: PHYA02Y or PHYA03Y (or PHYA01)

For (NSCA03Y) QUAA03Y and (NSCB02Y) QUAA01Y see Quaternary Studies

Students should also follow the following courses:

ASTA03Y Introduction to Astronomy

GLGA02S Geology in the Urban Environment

HUMC11Y The Darwinian Revolution

MAT2A5S Thinking Mathematically

PHLS07F Clinical Philosophy

PHLS08S Contemporary Philosophical Issues Biomedical Ethics

Neurosciences

As an area of study the Neurosciences has amalgamated aspects of a variety of disciplines with the goal of understanding behavioural, biological and biochemical processes in nervous systems. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology have been successfully applied to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in the Neurosciences have made fundamental contributions in the clinical aspects of medicine and behaviour.

To be completed by the end of the fourth year of full-time study (or equivalent).

At least one of:

- PSYC60U Current Topics in Comparative and Physiological Psychology
- PSYC61S Current Topics in Psychopharmacology
- CHMB02Y Calculus with Statistics
- CHMB05Y Calculus

**Major Programmes in Neurosciences**

**Supervisor: D. Chute (284-3329)**

The programme requires completion of eleven full-course equivalents in the Neurosciences and related fields, as well as those courses outlined above. The following outline describes the most advantageous sequencing.

1. To be completed in the first year of full-time study (or equivalent).
   - PSYB01Y Introduction to Psychology
   - BIOA03Y Introductory Biology
   - CHMA02Y General Chemistry
   - MAT2A2Y Calculus with Statistics
   - MAT2A6Y Calculus

2. To be completed by the end of the second year of full-time study (or equivalent).
   - CHMB05Y Organic Chemistry I
   - PSYB07F Data Analysis in Psychology
   - BI001Y General and Comparative
   - PSYB06F Brain Mechanisms and Behaviour I
   - PSYB01S Brain Mechanisms and Behaviour II: Physiology of Motivation and Learning

3. To be completed by the third year of full-time study (or equivalent).
   - PSYB02Y Psychology
   - PSYB03S The Measurement of Psychological Attributes
   - PSYB04F Behaviour Modification: Origins and Application
   - PSYB05F Sensation and Perception
   - PSYB06F Perception and Knowing
   - PSYB07F Computer and Information Processing
   - PSYB08F Microcomputers in Experimental Psychology
   - PSYB09F Human Learning and Memory
   - PSYB10F Human Learning and Memory
   - PSYB11F Biological Foundations of Behaviour
   - PSYB20F Current Topics in Animal Learning
   - PSYB21F Research in Operant Conditioning
   - PSYB22F Current Topics in Human Information Processing
   - PSYB23F Computers in Psychology
   - PSYB24F Physics for the Life Sciences II: Genetics

Students are advised to consult the supervisor to consider selecting some electives from the list below.

Relevant Neuroscience courses available at the St. George or Barrhaven campuses in such departments as Anatomy, Biochemistry, Pharmacology, Physiology, Psychology and Zoology may be used to satisfy a required or elective course in either the Specialist or Major Programmes, with the permission of the supervisor of studies.

Students in both Specialist and Major Programmes should obtain a copy of the Neuroscience Programme booklet which provides general information including the research and special interests of faculty members, and a listing of relevant courses from the other campuses.

List of Concentration Electives

- PSYB03S The Measurement of Psychological Attributes
- PSYB04F Behaviour Modification: Origins and Application
- PSYB05F Sensation and Perception
- PSYB06F Perception and Knowing
- PSYB07F Computer and Information Processing
- PSYB08F Microcomputers in Experimental Psychology
- PSYB09F Human Learning and Memory
- PSYB10F Human Learning and Memory
- PSYB11F Biological Foundations of Behaviour
- PSYB20F Current Topics in Animal Learning
- PSYB21F Research in Operant Conditioning
- PSYB22F Current Topics in Human Information Processing
- PSYB23F Computers in Psychology
- PSYB24F Physics for the Life Sciences II: Genetics
Philosophy

Discipline Representative: W.C. Graham

Philosophy consists of a critical analysis of the ideas and concepts fundamental to such major areas of human concern as science, society, religion, morality and art. Its aim is to scrutinize the basic notions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two-year cycle. Those not offered in one academic year will normally be available in the following year while PHLA01, PHLB01, PHLB20, JMBB50 and PHLB90 are offered every year. It should be noted that in almost all subject areas Fall/Spring sequences are offered which when combined provide the equivalent of a full course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in a decade units according to areas within Philosophy, not in order of difficulty. Further information about Philosophy may be obtained from the Discipline Representative.

Specialist Programme in Philosophy

Supervisor, W.C. Graham (384-3279)

Students must complete at least eleven and one-half full-course equivalents including:

1. Fundamental Questions of Philosophy
2. PHLB01/2 Symbolic Logic
3. PHLB10F/Morality and Values
4. PHLB20/2/2 Belief, Knowledge and Truth
5. PHLB40/2 Logic

Two of the following half-courses:

- PHLB20F Symbolic Logic
- PHLB20F/Morality and Values
- PHLB40/2 Belief, Knowledge and Truth
- PHLB50/F Symbolic Logic
- PHLB60/2 Morality and Values
- PHLB60/2 Belief, Knowledge and Truth

Two half-courses from PHLB40F to PHLB49S

The Major Programme may be modified as follows:

1. Students in Social Sciences (ANT, COM, ECON, GG, GPR, POL, SOC) should complete (1), (2), (3), and (4) as above; three half-courses from PHLB05, PHLB10F/S, PHLB20F/S, PHLB50F/S, PHLB60F/S, PHLB60F/S, PHLB70F/S, PHLB70/2, PHLB71/2, and one additional half-course in Philosophy.

PHLA01Y: L01 Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

PHLA01Y: L02 Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Further information regarding this lecture section, see D. Mosher (Fall Term), and P. Thompson (Spring Term). Session: Winter Day D. Mosher, P. Thompson

PHLA01Y: L03 Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?


PHLA01Y: L30 Fundamental Questions of Philosophy

A discussion of some of the fundamental questions of philosophy. What is good reasoning? What is morality and can it be justified? Is it reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free?

Further information regarding this lecture section, see D. Mosher (Fall Term), and P. Thompson (Spring Term). Session: Winter Day D. Mosher, P. Thompson
reasonable to adhere to a religion? What is knowledge? Are social practices justifiable? Is materialism true? Are humans free? An introduction to philosophy consisting of topics from its major divisions: metaphysics, theory of knowledge, philosophy of religion, ethics, and logic. Reading material is evenly divided between works of great philosophers of the past, and of contemporary philosophers.

Session: Winter Evening
J.H. Sobel

PHLB01F Morality and Values
A study of philosophical problems and postures in ethics, such as the relativity of values, the justification of morality, moral scepticism, ethical egoism, utilitarianism, deontology.

This course is an introduction to the problems and concepts of ethical theory as found in four pre-eminent texts: *The Republic* by Plato, Nicomachean Ethics by Aristotle, *An Enquiry Concerning the Principles of Morals* by Hume, and Kant's *The Metaphysics of Morals*. Session: Winter Day
J.H. Sobel

PHLB03S Philosophy and Art
A study of the nature and purposes of art. This course will investigate the relation of art to human life. A variety of art forms including music, painting, sculpture, films, poetry, photography will be investigated and discussed. Students should bring their own interests to bear on this course. Term work may consist of written work or formal exercises, demonstration, display, etc., other than the written word. Student participation is essential.

Session: Winter Day
W. Graham

PHLB04S Philosophy in Literature
An examination of philosophical theories and claims in literary works.

Session: Summer Evening
A. Gombay

PHLB05F Social Issues
An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery, etc.), eugenics, ecology, civil disobedience, policies towards the Third World and towards the poor.
In 1987 the course will involve an examination of human sexual relations, abortion, world hunger, war discrimination and capital punishment. Two hours of lecture a week.

Session: Winter Day
R.P. Thompson

PHLB10F Society, The State and The Citizen
A study of the philosophical problems of the state and society such as the individual in society, the coercive state, the Stateless society. A consideration of the thought of some of the following philosophers: Hobbes, Locke, Rousseau, Hegel, Marx, Feuerbach, Karl Marx, and others. Texts: Alan Gewirth, *Political Philosophy*; Oppenheim, *The State: A History of Its Rule*. Session: Winter Day
W. Graham

PHLB11F Philosophy of Law
A study of some fundamental legal conceptions. The course has two parts. The first examines the notion of a right: what is a legal right? How are rights related to obligations? Are there natural rights? The second part examines the notion of justice: is affirmative action just? Can a substantial concept of justice be derived from the notion of rational choice?
Readings will be from contemporary authors such as H.L.A. Hart, R. Dworkin, J. Rawls, R. Nozick as well as more classical thinkers such as Aristotle, Aquinas, Kant.

Session: Winter Day
A. Gombay

PHLB14F 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? Is philosophy an Armchair social science? How does social theory interact with reality? Prerequisite: One course in Philosophy or in the Division of Social Science.

Session: Winter Day
A. Gombay

PHLB20F Belief, Knowledge and Truth
An examination of such questions as certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth. We will consider the answers given to these questions in a number of philosophical systems, but the one system we will study most closely will be the pragmatism of C.S. Peirce. The point of this special concern is to give the course some unity and connectedness throughout its range of topics. The presentation of material will be through a mixture of lecture and discussion.

Text: *Philosophical Writing of Peirce*, selected and edited by Justus Buchler.

Session: Winter Day
G. Nagel

PHLB30S Existentialism
A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre.

We will study three existentialist thinkers - each with a distinctive approach to authenticity, the meaning of life, and the other such themes: Kierkegaard, who relates the themes to religion; Heidegger, whose approach is metaphysical; and R.D. Laing, a psychiatrist.


Session: Winter Day
G. Nagel

PHLB40F Plato and his Predecessors I
A study of the origins of philosophy in Greece and the views of the earliest philosophers regarding the nature of the world. A consideration of the main aspects of the philosophy of Plato.

The course will examine central themes in Plato's presentation of Socrates: the Socratic method, the paradoxes about virtue and knowledge, civil disobedience, the possibility of teaching goodness, the possibility of surviving death. For Socrates, philosophy is not a set of doctrines so much as a way of life: "the unexamined life is not worth living." The dialogues to be read include the Apology, Crito, Euthyphro, Meno, Gorgias, Phaedo. A convenient edition is Plato: *Collected Dialogues* (Panthom).

Session: Winter Day
A. Gombay

PHLB41S Plato and his Predecessors II
A continuation of PHLB40. The course will work through major themes in Plato's *Republic* and develop those themes through other works of Plato. For instance: Plato's theory of knowledge in the *Theaetetus*; in understanding the relationship between knowledge and love in the *Symposium* and *Phaedrus*; and issues in Plato psychology and ethics in one or more passages selected from other dialogues.

The text will be *Plato: Collected Dialogues* (Panthom).

Prerequisite: PHLB40
Session: Winter Day
A. Gombay

PHLB45F Philosophers of the Middle Ages II
A continuation of PHLB44. A study of central themes in the philosophy of Christian, Islamic and Jewish thinkers such as Augustine, Boethius, Avicenna, Abanuari, Ma'amun, Alfarabi, Alkindi, Alfarabi, and Alfarabi. Session: Winter Evening
D. Meehan

PHLB48F Philosophy in the Late Modern Age I
A study of the thought of Hegel, Schopenhauer and Nietzsche, three philosophers whose work is fundamental to the age in which we presently live. Texts: Hegel, *Texts and Commentary: Preface to the Phenomenology of Spirit*; Introductory lectures on Art, Religion, Philosophy; Schopenhauer, Essays and Aphorisms; Nietzsche, *A Nietzsche Reader*.

Session: Winter Evening
W. Graham

PHLB49S Philosophy in the Later Modern Age II
A study of the doctrines of some philosophers in the so-called analytic tradition: Frege, Russell, Wittgenstein. These doctrines are about mind, language and reality.


Session: Winter Evening
A. Gombay

JMPB05F Symbolic Logic
An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic. An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, and quantification theory. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are however presented in lectures. D. Kahl, R. Moutard and G. Mar. Logic: Techniques of Formal Reasoning.

Session: Winter Day
J.H. Sobel
PHLB60F Existence and Reality
A consideration of problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, identity, causality, mind, and value. These are very basic concepts employed in perceiving, categorizing and classifying reality.
Session: Winter Day
D. Mosher

PHLB61S Philosophy of Religion
A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism.
Session: Winter Evening

PHLB70F Philosophy of Science
A study of philosophical questions raised by the natural sciences.
In 1982 the course will involve an examination of the logical structure of explanation, law and theory, and the role of concepts in one's understanding of the world. Two hours of lecture a week.
Exclusion: PHLB71
Prerequisite: One course or half-course in Philosophy or the Division of Science.
Session: Winter Day
P. Thompson

PHLB71F Philosophy of Biology
An examination of the conceptual and logical aspects of explanation, theory, and model construction in biology.
In 1982-83 the following topics will be covered: the concept of cause and its role in law and causal explanation in biology, the logical structure of the modern synthetic theory of evolution, tempo and mode in evolution (punctuated equilibria and phylectic gradualism), the Kuhnian concept of paradigm, and the role of models in biology. Two hours of discussion per week.
Exclusion: PHLB70
Prerequisite: BIO303
Session: Winter Day
P. Thompson

PHLB80F Philosophy of Language
Contemporary theories of meaning, reference, grammar and the nature of language.
Prerequisite: One B-level course or half-course in Philosophy or Linguistics.
Session: Winter Day
R. Bimbick

PHLB81S Theories of Mind
An examination of the philosophical presuppositions of psychological theories such as those of Freud and Jung. Behavioralism and Existential Psychology. Problems such as the relation of mind and body, conscious and unconscious, the meaning of mentalistic concepts and the analysis of dreaming will be studied.
Prerequisite: One B-level course or half-course in Philosophy or Psychology
Session: Winter Day

PHLC00S Biomedical Ethics
An examination of the social and ethical aspects of the life sciences and medicine.
In 1982-83 the following issues will be discussed: the definition of health and disease, euthanasia, genetic technologies, behaviour control and psychosurgery, and health care delivery.
Exclusion: PHLB87
Prerequisites: PHLB005F/S or PHLB01F/S
Session: Winter Day
R. P. Thompson

JMPCS1S Symbolic Logic II
A continuation of JMPCC50.
The natural deduction system studied in Symbolic Logic I is extended to cover identity and definable descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definable descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The text is D. Kalish, R. Montague and G. Mar. Logic: Techniques of Formal Reasoning.
Prerequisite: JMPCC50
Session: Winter Day
J. H. Sobel

PHLC52S Modal Logic and Probability
An introduction to theories of possibility and necessity, probability, and rational decisions.
The logic of possibility and necessity will be studied: both a priori and natural deduction treatments will be developed. A theory of probability as a measure of a person's confidence in propositions will be taken up and theories that relate a person's rational decisions to his preferences and probable beliefs will be studied.
Prerequisite: JMPCC50
Session: Winter Day
J. H. Sobel

PHLC71S Advanced Topics in Philosophy of Biology
A seminar course dealing with conceptual and logical aspects of explanation and theory in Biology, and logical and heuristic aspects of models in Biology.
In 1982-83 the following topics will be discussed: the logical structure of evolutionary theory and the conceptual assumptions underlying it, models in biology, and clausal versus evolutionary systems.
Exclusion: (PHLC71S) (1979-80)
Prerequisites: PHLB70 or PHLB71; permission of instructor
Session: Winter Day
P. Thompson

PHLC87S Seminar in Philosophy: Lying and Deceit
A study of some epistemological and ethical problems connected with false consciousness.
For example: when we believe falsely why can't we know that we do? Is it true that what we don't know doesn't hurt us? Readings will include S. Bok: Lying, as well as texts from older philosophers, Plato, St. Augustine, Descartes, Kant, Nietzsche.
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor
Session: Winter Day
A. Gornay

PHLC88S Seminar in Philosophy: Spinoza
With some help from commentaries, we will read Spinoza's Ethics, Spinoza rejects our ordinary concept of freedom as an illusion. In its place he proposes the freedom of the mind. As Hampshire says, Spinoza can be looked at in many ways: as a stoic, a pioneer in psychology, a metaphysician, an atheist, a deeply religious thinker. However, one attempts to sum him up, remains among the most profound and antagonistic thinkers of all time.
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor
Session: Winter Day
G. Nagel

PHLC90S Seminar in Philosophy: The Philosophy of Friedrich Nietzsche
A study of the thought of one of the most controversial philosophers of the modern age, Friedrich Nietzsche. In the past two decades Nietzsche's writings have gained importance as being relevant to present philosophical concerns and problems. For the first time there is a critical edition of his works available, and a radical re-evaluation of his thought is underway in various parts of the philosophical world.
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor
Session: Winter Evening
W. Graham

PHLC85F/S
PHLC86F/S
PHLC87F/S
PHLC88F/S
PHLC99Y

PHLC99Y Independent Studies
Prerequisite: Two B-level half-courses in Philosophy; permission of instructor
Session: Winter Day
Staff

Courses Not Offered in 1982-83

PHLB12F Marx and Marxism
Prerequisite: One course or half-course in Philosophy, Sociology, Political Science or Economics - PHLB10 is recommended but not required.

PHLB15S Philosophy of Education
PHLB16F/S Philosophy of History
PHLB17S Anarchism
PHLB24F Aristotle I
PHLB24S Aristotle II
PHLB44F Philosophers of the Middle Ages I
PHLB44F Philosophy of the Early Modern Age I
PHLB47S Philosophy of the Early Modern Age II

PHLB53S The Art of Thinking
PHLC02S Contemporary Ethical Theories
Prerequisite: One full-course equivalent in Philosophy including PHLB10

PHLC11S Topics in the Philosophy of Law
Prerequisite: PHLB11

PHLC53F/S Games and Decision
Prerequisite: A B-level course in economics, political science, sociology, psychology, philosophy, mathematics or logic.

PHLC54F/S Metalic
Prerequisite: JMPCC50
**Discipline Representative:** P. J. O'Donnell

**Physics** is the study of the basic laws which describe how matter and objects move, and influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may all 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 an understanding of the atomic and subatomic structure of matter, to describe the behavior of matter on a more fundamental level.

**Specialist Programme in Physics**

**Supervisor:** A. E. Jacobs (284-3340)

(Additional optional courses are specified in fourth year for the benefit of students who may be contemplating graduate work and have the necessary prerequisite(s) for one or more 400-series lecture courses.) Students must complete the full-course equivalents in Physics and Mathematics, as specified below. An optional Mathematics sequence more suitable for students with interest in mathematics and physics or theoretical physics is specified in parentheses. It is essential that students choose the appropriate set of Mathematics courses from the beginning, since transfers between the sets are severely restricted. It is recommended that all students take MATA40F/455 and at least one half-course in computer science.

**First year:**

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<th>Course Code</th>
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<tr>
<td>PHYA03Y</td>
<td>Physics for the Physical and Life Sciences</td>
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<td>PHYA02Y</td>
<td>Principles of Physics</td>
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<td>MATA26Y</td>
<td>Calculus</td>
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<td>PHYB01S</td>
<td>Electricity and Magnetism I</td>
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<td>PHYB03F</td>
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<td>Waves</td>
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<td>Intermediate Physics Laboratory</td>
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<td>PHYB17S</td>
<td>Introduction to Quantum Physics I</td>
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<td>MATAB14F</td>
<td>Techniques of the Calculus of Several Variables I</td>
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<td>MATAB24S</td>
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<td>PHYC05H</td>
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<td>PHYC06F</td>
<td>Statistical Physics</td>
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<td>JPMC42S</td>
<td>Advanced Classical Mechanics</td>
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<td>MATAB51F</td>
<td>Differential Equations I</td>
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<td>MATAB60F</td>
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<td>PHYB16F</td>
<td>Special Relativity</td>
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<td>JPMC40Y</td>
<td>Advanced Classical Mechanics</td>
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<td>PHYC10H</td>
<td>Geophysics</td>
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<td>PHYC33H</td>
<td>Introduction to Condensed Matter Physics</td>
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<td>PHYC45Y</td>
<td>The Physics of Diagnostic and Therapeutic Radiology</td>
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<td>PHYD42Y</td>
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**Major Programme in Physics**

**Supervisor:** A. E. Jacobs (284-3340)

Students must complete at least one half-course in computer science. It is recommended that all students take at least one half-course in computer science.

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**Major Programme in Physics**

**Supervisor:** A. E. Jacobs (284-3340)

Students must complete at least one half-course in computer science. It is recommended that all students take at least one half-course in computer science.

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<td>Techniques of the Calculus of Several Variables I</td>
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**Third year:**

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<tr>
<td>PHYD05F</td>
<td>Electricity and Magnetism I</td>
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<tr>
<td>ATB42F</td>
<td>Techniques of the Calculus of Several Variables II</td>
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**Fourth year:**

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<td>ATB50F, B55S Analysis I, II</td>
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**Physics for the Physical and Life Sciences**

A survey of the principles of physics with application to both the physical and life sciences. Topics include motion of individual particles and of complex bodies on a scale from molecules to atoms, vibrations and waves, sound, light, heat and thermodynamics, and wave theory. The subjects of relativity, nuclear physics, and quantum mechanics are also introduced.

Two lectures and one tutorial per week, and a three-hour laboratory every second week.

**Exclusion:** PHYA01 (PHY2402), PHYA03 (MATA26 or MATA27 or MATA55)

Session: Winter Day
PHYB08H Intermediate Physics Laboratory
Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01, PHYB03, and PHYB13). Optional concentration in electronic circuits in the second term is available. Limited enrolment: 20.
A six-hour laboratory period once every two weeks. A single experiment may extend over more than one period. Students are expected to plan their experiments thoroughly beforehand, discussing their approach with one of the instructors or demonstrators. Observations including numerical data must be recorded carefully and thoroughly. The Intermediate Physics Laboratory Manual, available in the laboratory, contains references to other sources, a number of which are available for consultation in the laboratory.
Prerequisite: PHYA03 or PHYA01, PHYA02
Corequisite: PHYB03
Session: Winter Day

PHYB09S Thermodynamics
General principles of classical thermodynamics including the first, second, and third laws and applications. Lectures are the same as those for the spring term half of CHMB03Y, problems oriented towards applications in physics will be provided.
Exclusion: CHMB03
Prerequisite: PHYA03 or PHYA01, PHYA02
Corequisite: MATB44 or MATB50
Session: Winter Day

PHYB12Y Physics for the Life Sciences II
Electrical phenomena and their application to the nervous system; the electrocardiogram. Interactions of electromagnetic radiation and charged particles with matter; radiation dose; diagnostics and therapy; nuclear medicine. Statistical aspects of physics as applied to biological systems.
Exclusion: PHYB01
Prerequisite: PHYA03 or PHYA01, PHYA02
MATB22 or MATB26 or MATB27 or MATB55
Session: Winter Day

PHYB17S Quantum Physics I
Exclusion: CHMB05Y
Prerequisite: PHYB04, MATB41 or MATB50
Session: Winter Day

PHYB18F Special Relativity
Prerequisite: PHYA03 or PHYA01, PHYA02
Session: Winter Day

PHYC01F Quantum Physics II
Prerequisite: PHYB01, PHYB17, (MATB44 and MATB42) or (MATB50 and MATB55)
Session: Winter Day

PHYC03Y Electricity and Magnetism II
Electrostatic fields in vacuum and in dielectric materials; multipole expansion, polarization, polarization current density, susceptibility, forces on conductors, forces on dielectrics etc. Laplace’s and Poisson’s equations and their solutions in particular cases. Special relativity and the transformation laws obeyed by the fields and potentials. Magnetostatic fields in vacuum and in materials; induction, inductance, magnetic torque and pressure, magnetization, susceptibility, hysteresis, etc. Maxwell’s equations. Propagation of electromagnetic waves in infinite media (free space, nonconductors, conductors and low-pressure ionized gases). Poynting vector. Reflection and refraction of electromagnetic waves. Snell’s law. Fresnel’s equations. Brewster’s angle. Total internal reflection, etc. Wave guides. TE, TM and TEM waves. Radiation of electromagnetic waves, antennae. Application of theory to practical problems is emphasized.
Prerequisite: PHYB01, PHYB04, MATB41 or MATB50
Corequisite: MATC51
Session: Winter Day

PHYC06H Advanced Physics Laboratory
A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in physics. Limited enrolment: 20.
This course is designed to involve students in some more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties. One six-hour laboratory period every second week. A single experiment may extend over more than one period.
Prerequisite: PHYB08 and permission of instructor
Corequisite: PHYC01
Session: Winter Day

PHYC06F Statistical Physics
Topics of entropy, thermodynamics and statistical mechanical ensembles, with applications including the kinetic theory of gases, paramagnetism, the specific heats of gases, isotope separation and phase transitions.
Prerequisite: PHYB17
Session: Winter Day

PHAC10Y Relativity and Cosmology
A brief review of the special theory of relativity and of the mathematical background of general relativity theory. General relativistic field equations in free space and in the presence of matter, gravitational radiation, cosmological theories and observations.
Consult Divisional Office or Astronomy discipline representative.
Prerequisite: PHYB01, JPMC42, PHYB18F would be desirable.
Session: Winter Day

JPMC42S Advanced Classical Mechanics
Prerequisite: PHYA03 (or PHYA01, A02); MATC51
Session: Winter Day
Political Science

Assistant Chairman: E.G. Andrew
Political science consists of a variety of approaches to the study of politics. Politics loosely refers to the process of trying to resolve conflicting interests and points of view in the public realm. One might say the subject of Political Science is the state while that of economics is the economy and that of sociology is society. But the discipline includes not only the study of policies and arrangements created as a means to preclude violent resolution of conflict at the level of the nation state, institutional and informal means by which a group may enhance its power (that is, their ability to have their views and interests implemented) from the level of the municipality to the international realm.

Political science is divided into the following fields: Canadian government, comparative government (subdivided into the politics of industrialized and non-industrialized countries), public administration, international relations, political behavior and political theory. In the study of Canadian Government students will become familiar with constitutional arrangements and policies at various levels of government in Canada. Public administration deals with the institutions or organizational structures through which public policies are implemented. Comparative Government, a comparison of practices and policies of a wide variety of other nations, will build the student's awareness of foreign political systems and further facilitate an understanding of Canadian political culture. International relations is devoted to the analysis of the foreign policy of various nation states and of the relations among nation states. Political behavior adopts a quantitative approach to political questions and is differentiated from other divisions of political science in terms of its method rather than its subject matter. Political theory explores the reasons advanced for various political doctrines and policies; that is, it attempts to clarify the place of politics in relation to varying conceptions of the "quality of life." Courses may be taken in varying sequence and combinations, leading to a Specialist Program for those completing an approved Program of ten full-course equivalents, or to a Major Program in completion of a more limited sequence of courses.

Specialist Programme in Political Science
Supervisor: J. Esberay (284-3170)
Students interested in a Specialist Programme in Political Science should, as early as possible, draw up a preliminary programme of study in consultation with a member of the Political Science staff. An orientation meeting will be scheduled in the Fall to help familiarize students with the aims of the Political Science Programmes as well as to introduce faculty responsible for teaching, and career and graduate study guidance. The recommended sequence of courses begins with an introductory course at the A level. Students who wish to pursue advanced courses in Canadian Government should also include POLB50 early in their Program.

- Students must complete ten full-course equivalents in Political Science approved by the Supervisor and including the following:
  1. POLA01Y: Introduction to Political Studies
  2. Two courses in political theory from POLB70-B71Y, POLC70-C71Y
  3. POLB50Y: Canadian Government and Politics
  4. One course from each of any three of:
     A. Canadian Government and Public Administration: POLB51-B54, POLB60, POLC50-C51, POLC50-C52
     B. Political Behaviour: POLB65-B69, POLC65-C69
     C. International Relations: POLB60-B64, POLC80-C84
     D. Comparative Politics, Industrial Countries: POLB65-B69, POLC50-C51
     E. Comparative Politics, Developing Countries: POLB91-B96, POLC91-C97

Students in the Specialist Programme may not take more than fourteen full-course equivalents in Political Science. In selecting courses from other disciplines they should consult with the Supervisor or a member of the Political Science staff.

Major Programme in Political Science
Supervisor: J. Esberay (284-3170)
Students must complete at least six full-course equivalents in Political Science including:

1. POLA01Y: Introduction to Political Studies
2. POLB50Y: Canadian Government and Politics
3. A course in political theory (POLB70Y or POLC71Y)
4. A full-course equivalent in each of at least two of:
   A. Canadian Government and Public Administration: POLB51-B54, POLB60, POLC50-C51
   B. Political Behaviour: POLB65-B69, POLC50-C51, POLC91-C97

5. International Relations: POLB80-84, POLC80-84
6. Comparative Politics, Industrial Countries: POLB85-89, POLC85-89
7. Comparative Politics, Developing Countries: POLB91-99, POLC91-97

Specialist Programme in Economics and Political Science (see under Economics)

POLA01Y: Introduction to Political Studies
An introduction to some of the most vexing problems of political life - such as participation, authority, liberty, distribution of power, and the influence of vested interests. Students will examine these problems as they are treated by major political theorists and as they occur in the institutional structures of Canada and some other Western democracies.

Session: Winter Day, Summer Day
S. Blair, J. Esberay

POLB50Y: Canadian Government and Politics
A study of Canadian political institutions and processes. Specific topics include: the constitution, federalism, fiscal relations, political regionalism, class and political parties, Quebec, political parties, interest groups, representation, Parliament, Cabinet, legislative-executive relations, the public service, policy-making. Two lectures a week; tutorial once every two weeks.

For preliminary reading students are recommended to read T.A. Hockin, Government in Canada.

Session: (POLB01; POLA01 prior to 1978-79)
S. Blair

POLB51F: Government and Politics in Ontario
Political structures and processes in Ontario:
- cabinet government; the interaction of Cabinet, legislature, and public service; political parties and the party system; provincial-municipal relations.

Session: (POLB37)
Supervisor: POLB50 (or POLB01)
S. Blair

POLB52F: Canadian Constitutional Law
An examination of the judicial role in interpreting legislative and executive powers contained in a B.N.A. Act. The texts of relevant decisions will be analysed in detail. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers.

The main text in the course is Peter H. Russell (ed.), Leading Constitutional Decisions (rev. ed.).
Exclusion: (POLB32)
Prerequisite: POLB50 (or POLB01)
Session: Winter Day
R.S. Blair

POLB53Y: Public Policies in Canada
A study of the patterns of growth in federal and provincial policies for economic progress, social order, and human development; of the relationship between changing public policies and Canadian political development; and of the contributions made by instruments of government toward the achievement of basic political values.
Exclusion: (POLB35)
Session: Winter Day
R.S. Blair

POLB54S: Intergovernmental Relations
An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.
Exclusion: (POLB19)
Prerequisite: POLA01
Session: Winter Day
J. Esberay

POLB60Y: Public Administration
An examination of the role of the bureaucracy in the Canadian and other political systems, focusing on the organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and means and means of controlling it.
Exclusion: (POLB05)
Session: Winter Evening
J. Galimberti

POLB65Y: Political Behaviour
An introduction to the analysis of political behaviour. This course will examine the empirical and theoretical efforts of political scientists to discover the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology. Lectures and discussion.
Exclusion: (POLB30)
Session: Winter Day
V.C. Falkenheim
POLB58Y Psychology and Politics
An introductory workshop in applied psychology. This course explores some of the areas in which our understanding of the political process has benefited from the application of psychological knowledge. The lecture/discussion period will be concerned with a general overview of the literature in the field and students are encouraged to undertake further detailed research in areas where they have the necessary psychological or political science background. During the fall term the focus will be on conflict in political systems and political corruption. In the spring term the focus will be on human nature and politics and the influence of personality factors.
Exclusion: POLB24
Session: Winter Evening
J. Esberay

POLB70Y Political Thought from Plato to Locke
Students will be expected to read Plato's Republic, Aristotle's Politics, Machiavelli’s The Prince, Hobbes's Leviathan (Parts one and two) and Locke's Second Treatise of Government. The political writings of St. Augustine and St. Thomas Aquinas will also be studied. Two hours of lectures and one tutorial per hour per week.
Exclusion: POLB06
Session: Winter Day
E. Andrew

POLB71Y Political Thought of the Eighteenth and Nineteenth Centuries
A study of the major political philosophers of the eighteenth and nineteenth centuries. Students will be expected to study selected writings of Rousseau, Montesquieu, Burke, Tocqueville, J.S. Mill and Marx. Two hours of lecture.
Exclusion: POLB03
Session: Winter Day
J. Colman

POLB80Y International Relations
A study of the nature of the international system; the factors that motivate foreign policies; and the institutions for the conduct of international relations. The purpose of the course is to help the student develop intellectual tools with which to analyse politics at the international level.
Exclusion: POLB10
Session: Winter Day, Summer Evening
A. Rubinoff

POLB82Y American Foreign Policy
An examination of the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world.
Exclusion: POLB42
Prerequisite: POLB80 (POLB10) or POLB87 (POLB20)
Session: Winter Day
A. Rubinoff

POLB85Y Comparative Politics of Industrial Societies
A comparative analysis of major themes in the politics of industrial societies, including political accountability and state interventionism. This course is an examination of the conditions of government and political freedom in industrial societies. We begin by examining the process of industrialization and the formation of the modern state. Thereafter, a number of international political issues are examined: interaction among political and bureaucratic elites, methods of political control and interest representation, the dynamics of the welfare and warfare state, and the future conditions of the post-industrial society. Organization will consist of a seminar. Preparation reading might include J.K. Galbraith, The New Industrial State. Exclusion: POLB16Y
Prerequisite: One course in Political science or permission of instructor.
Session: Winter Day
M.W. Donnelly

POLB86Y Soviet Government and Religion
The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects. The course examines the formation and consolidation of the Soviet political order and the major problems confronting Soviet society today, both internally and in its relations with other states.
Exclusion: POLB23
Session: Winter Day
T.J. Colton/S. Solomon

POLB87Y U.S. Government and Politics
General examination of national institutions and political processes in the United States with specific emphasis on the role of presidential leadership in policy making. Specific topics include: the "Constitution", the social basis of political conflict, political participation, the links between state and society, the Washington Community, role of interest groups, and patterns of public policy.
Exclusion: POLB26
Session: Winter Day, Winter Evening
A. Rubinoff

POLB88Y Urban Politics
Examination of the politics and government in urban areas; the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision-making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.
Exclusion: POLB38
Session: Winter Day
R. Donnelly

POLB89S Politics and Society in Contemporary Japan
Analysis of politics and government in contemporary Japan. Special attention will be given to social and cultural explanations of political behaviour. The contributions made by government policy towards achieving economic growth will be considered.
Exclusion: POLB39
Session: Winter Day
R. Donnelly

POLB90Y Politics of the Third World
Effects which various Western, especially American, political and social institutions and so-called "development" in the Third World have on Third World societies. The political and social consequences of these effects shall be analyzed in detail. The course aims to provide a comprehensive overview of the major political and social problems of the Third World countries.
Exclusion: POLB39
Prerequisite: POLB50 or POLB01
Session: Winter Day
R.S. Blair

POLB60F Administrative Politics
Analysis of the political processes and political behavior of political institutions and public agencies. The course aims to provide a comprehensive overview of the major political and social problems of the Third World countries.
Exclusion: POLB50
Session: Winter Day
R. Manzer

POLB61S Policy Development
Analysis of the processes of decision-making, including formulation and implementation of public policy in a modern democratic state with cases based primarily on contemporary political institutions and practices—both in Canada and the United States.
stabilization, public schooling and criminal justice in Canada.
Prerequisite: POLB35 or POLB50 or POLB60 (or POLB01, POLB05 or POLB35)
Session: Winter Day
R. Manzer

POLC55F Topics in Political Leadership
This course will involve detailed studies of specific political leaders in the light of a variety of theories of leadership. While the emphasis will be on psychological theories, students who have the necessary background may apply other approaches. It is assumed that the leaders selected for study will come from the areas of Canada, the United States and Western Europe but other political leaders may be studied where the students have the appropriate background.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussion.
Exclusion: (POLC12F/S)
Prerequisite: POLB66 (POLB24Y) or POLA01 or POLB50 or POLB60 (POLB01) or POLB55 (POLB18) or POLB57 (POLB26) or POLC55 (POLC15Y)
Session: Winter Day
J. Esberen

POLC70Y Twentieth Century Political Thought
A study of some of the major developments in political thought in the twentieth century.

The course examines the evolution of democratic theory with particular attention to the impact on that theory of the sociopolitical crisis (the failure of democracies and rise of fascism in Europe) and the growth of new approaches to social inquiry (quantitative research, behavioural studies).
Exclusion: (POLB98)
Session: Winter Day
S. Solomon

POLC71Y Canadian Political Ideas
An examination of the ideas informing Canadian political movements and parties from Confederation to the present.

The seminar will require two class presentations during the year.
Prerequisite: One of POLB50, POLB70, POLB71, HISB04
Session: Winter Day
E. Andrew

POLC72F Selected Topics in Political Philosophy
A detailed examination of selected themes in political philosophy or the work of a particular philosopher. The topics to be studied will be announced annually in the spring.
Prerequisite: POLB70, POLB71, or permission of instructor
Session: Winter Day
S.J. Colman

POLC73S Selected Topics in Political Philosophy
A detailed examination of selected themes in political philosophy or the work of a particular philosopher. The topics to be studied will be announced annually in the spring.
Prerequisite: POLB70, POLB71 or permission of instructor
Session: Winter Day
S.J. Colman

POLC81S The Psychology of International Relations
This course will explore the contribution that psychology of international relations can make to an understanding of international relations. Problems to be considered include problems of war and peace, the influence of perception on foreign policy decisions, the influence of personality on decision making.

The course will be taught in a weekly two hour seminar and the students will be expected to undertake regular preparatory reading and to participate actively in class discussions.
Exclusion: (POLC11F/S)
Prerequisite: POLB66 or POLB80
Session: Winter Day
J. Esberen

POLC85Y Comparative Communism
An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.
Exclusion: (POLC06)
Prerequisite: One 2-level course in Political Science
Session: Winter Day
E. Andrew, T. Colton

POLC91F Urbanization and Underdevelopment
An analysis of how cities in selected African and Latin American countries reflect the underdevelopment of the latter in their histories, functions, occupational structures and processes of social marginalization, and of the efficacy of present and proposed policies and strategies to ameliorate the major problems arising therefrom.
Exclusion: (POLC13)
Prerequisite: a 2-level course in Social Science. A prior course on development or some part of the Third World is advisable but not mandatory.
Session: Winter Day
R.J. Sandbrook

POLC92S Multinational Corporations and Underdevelopment
This course will assess the impact of these large, transnational firms upon the politics and economies of selected countries in Africa and Latin America. Particular attention will be placed upon the strategies, both in operation and in prospect, which transnational corporations use to control the flow of profits and extract the maximum benefits from their operations for the poor. There will be case studies of multinational firms engaged in both primary production and manufacturing in underdeveloped countries.

Students who wish to undertake some backround preparation for this seminar course are advised to read one or both of: Richard Barnet and Ronald Muller's Global Reach: The Power of the Multinationals (New York: Simon and Schuster, 1974) and Raymond Vernon's Storm over the Multinationals: The Real Issues (Cambridge, Mass.: Harvard Uni. Press, 1977).
Exclusion: (POLC18)
Prerequisite: One Social Science course dealing with the Third World or development.
Session: Winter Day
R.J. Sandbrook

POLC98F Supervised Reading
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: (POLC04)
Prerequisite: One 2-level course in Political Science; permission of instructor.
Session: Winter Day

POLC99S Supervised Reading
Advanced reading programme in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest.
Exclusion: (POLC05)
Prerequisite: One 2-level course in Political Science; permission of instructor.
Session: Winter Day

Courses Not Offered in 1982-83

POLB81F Canadian Foreign Policy
Prerequisite: POLB50 (or POLB01) or (POLB10)

POLB92Y Politics and Society in Independent Africa

POLC50Y Canadian Problems in Comparative Perspective

POLC62F Organized Interests and the State
Prerequisite: POLB60 (or POLB05) or POLB55 (or POLB35)

POLC86S Intergovernmental Relations in the European Economic Community
Exclusion: (POLB34)
Psychology

Associate Chairman:
Psychology is that branch of science which seeks to understand behaviour and experience. Why humans and infrahumans act as they do is a puzzle which has always challenged mankind. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. But the methods of scientific enquiry can also be applied to an understanding of behaviour.

The areas of interest which psychology encompasses include: how humans perceive their environments; how they learn and adapt; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behaviour; how their behaviour relates to physiological functions; and how individuals differ from one another. The course offerings in Psychology consider how psychologists pursue inquiries into these areas and what knowledge they have gained.

The Specialist Programme in Psychology includes courses from the main subfields within the discipline. It has been designed both for students wishing to pursue graduate work in psychology and for students who have a general interest in this field. Students considering graduate study in Psychology should include the thesis course (PSYC890Y) in their Programme. The Major Programme is similarly designed to expose students to the main areas in Psychology and is recommended for those with less specialized interests.

Students particularly interested in the relation of brain to behaviour should consider the Major and Specialist Programmes in the Neurosciences (NRS) described in this calendar.

Specialist Programme in Psychology
Supervisor: C. MacLeod (284-3218)

The programme requires completion of eleven and one-half full-course equivalents.

A. Nine and one-half full-course equivalents in Psychology as follows:
1. PSYA0Y Introduction to Psychology
2. PSYB07F/S Data Analysis in Psychology
3. PSYB01F/S Introduction to Psychological Research

B. At least one additional full-course equivalent at the B-level selected from the 10-, 20-, or 30-series. (This series offers courses in social, developmental, and personality psychology, respectively.)

C. At least one additional full-course equivalent at the B-level selected from the 40-, 50-, or 70-series. (This series offers courses in physiological and comparative psychology.)

D. At least one additional full-course equivalent at the B-level selected from the 50-series. (This series offers courses in cognitive psychology, human learning, memory, sensation and perception.)

PSYB01 Introduction to Psychological Research

The intent is to present the principles of the scientific method as they apply to experimental psychology. Using examples from both animal and human experiments, the development of research projects in psychology will be described. The nature of hypothesis testing through the design of experiments provides the nucleus of the course. Out of this grows discussion of issues important in planning and conducting research: generating research problems, experimental control, sampling of subjects, scaling and measurement, interpretation and evaluation of results, theory construction, and preparation of the research report. The social psychology of the experiment and ethical issues in research will also be considered.

Topics will include classical and operant conditioning, motivation, learning, perception, and memory. Research methods will be introduced in lectures and illustrated in laboratory exercises. This course is required by both the Major and Specialist Programmes, and provides the basic skills necessary to take the other lab courses in psychology.

Prerequisites: PSYA0Y

Exclusions: (PSYB09, PSYB52)

Session: Winter (S), Winter Evening (S)

B. Biederman, M. Smith

PSYB07F/S Data Analysis in Psychology

Data reduction techniques: frequency distributions, measures of central tendency and variability, linear and non-linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, and distributions.

Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behaviour of the human species is explained by observing the behaviour of individual persons. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed. (Students concerned about the adequacy of their background in mathematics should consult H. M. Walker's Mathematics Essential for Elementary
PSYB08S Experimental Design in Psychology
The analysis of variance as a research tool and the rationale and mechanics of its application to a variety of experimental designs, simple and complex, one way and factorial designs, random and randomized block designs, and covariance. Interpretation of statistically significant results, and the extent to which these results may be generalized to the population from which the sample is drawn. Prerequisites: PSYB07 or MATB57.

PSYB12S Advanced Social Psychology
A detailed examination of selected social psychological issues introduced in PSYB10. Attitudes play a central role in our social lives. This course will examine the nature of attitudes, their formation and change, the role of social influence, and the relationship between attitudes and behaviour. Practical issues such as the measurement of attitudes and the relationship between attitudes and behaviour will be covered. In addition, the course examines belief systems and their manifestation in political and moral ideologies. Teaching method: lectures. Prerequisite: PSYB10.

PSYB20F Developmental Psychology
Developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social developmental perspectives. The course will cover the development of children's cognitive processes, including the development of language and the development of social skills. Prerequisite: PSYB10.

PSYB21F Advanced Developmental Psychology
This course considers the development of personal and interpersonal processes from a lifespan perspective. The emphasis will be on development during early and middle adulthood, with some material drawn from earlier phases of development for comparative purposes. Prerequisite: PSYB20.

PSYB30S Personality
An introduction to some of the influential theories of personality and the research which they have guided. Specific theories covered vary from year to year. A typical selection might include theories of autistic behavior, Freud, Jung, Adler, and Rogers. Prerequisite: PSYB10.

PSYB32F/S Abnormal Psychology
A critical examination of psychoanalytic, S-R, cognitive, interpersonal, biological and phenomenological views concerning the causes and treatment of abnormal behavior. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized. Opportunities for work on current topics of interest, research in areas of interest, and individualized study under the direction of the instructor. Prerequisite: PSYB10.

PSYB40F Learning
Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to problems and techniques in the study of the acquisition of behavior. Topics include reinforcement, motivation, classical and instrumental conditioning principles, and theory construction. Prerequisite: PSYB30S.

PSYB45S Behaviour Modification: Origins and Applications
A survey of attempts to understand and regulate human behavior in non-laboratory settings. Founded on principles derived from the learning and conditioning laboratory. A critical analysis of current applications and systems of behavior modification and control. Philosophical underpinnings; basic concepts and models of behavior change; research strategies; operant procedures; reinforcement; schedules, extinction, shaping, self-reinforcement; fading, chaining, instructions, the token economy, behavioral contracting, biofeedback, punishment and its side effects; cognitive and behavior therapy; attribution, placebo effects, cognitive therapy, rational-emotive therapy, thought-stopping, neuro-linguistic modeling.
establislment of new behaviors, bear extinction, assertive training, treatment of obesity, treatment of depression; systemic desensitization; treatment of anxiety; aversive counterconditioning; treatment of alcohol and drug abuse.
Pre-requisite: PSYA01
Session: Winter Day

PSYB50F Sensation and Perception
An investigation into the processes by which we gather information about the world around us, and the laws that govern the way in which that information is used to construct our perceptions. Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity; colour and tone; spatial and temporal resolution; contrast; perception of space and movement; perception of pattern and form. The teaching method will be lectures, for which preparatory reading will be important, and classroom demonstrations of many phenomena under discussion.
Pre-requisite: PSYA01
Session: Winter Evening
J. Foley

PSYB51S Perceiving and Knowing
Theories of representation and research studies by psychologists and educators. Specific topics include displays for the perceptually handicapped, projection, outline representation, machine drawing of pictures, trompe l’oeil, ambiguous pictures, impossible objects, metaphors in pictures, perception by special groups in New Guinea, Africa, India. Cave art. Illusory effects.
In obtaining information about our environment we rely on first-hand contact with real things, and also on second-hand contact, with representations - we have to distinguish between reality and appearance, objects and images, the pictured and the pictures. The course examines such distinctions using data from children and adults, from different cultures, from different periods, and from different species. Demonstrations and exercises will form part of the course work.
Pre-requisite: A.B-level course in Psychology (or PSYA01 and permission of instructor); PSYB50, PSYB52, PSYB70, PHIL83 are recommended
Session: Winter Evening
J.M. Kennedy

PSYB53F Microcomputers in Experimental Psychology
Examination of the widespread impact of computers in experimental psychology. This is a laboratory course emphasizing the use of microcomputers in preparing, controlling, and analyzing experiments. Students will use a simple programming language, and will have considerable "hands-on" experience with laboratory microcomputers. The aim is to develop the skills necessary to perform experiments in psychology with particular emphasis on research in cognition. Limited enrolment: 20.
Pre-requisite: PSYA01, PSYB51 (PSYB59/PSYB52), and at least two other B-level psychology courses.
Exclusion: PSYC56
Session: Winter Day
C. MacLeod

JLP55F Psycholinguistics
Theories and experiments that address the question: how is language comprehended and produced? Linguistic theories that form the basis of psychological and biological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.
The relations between field of Psycholinguistics and the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and units proposed by linguistics, the acquisition of language by the child, and the relationships between human language and phylogenesis will be discussed. There will be lectures, films, and discussion.
Pre-requisite: LINA01
Session: Winter Day
E. Bialystok

PSYB57S Human Learning and Memory
Discussion of the theoretical and experimental literature on human learning and memory. A general cognitive perspective is taken, where learning and memory are viewed as critical aspects of information processing. The course provides an in-depth analysis of the encoding, storage, and retrieval processes involved in active memory and in long-term memory.
Three lecture-hours per week. Concurrent readings from the text and original sources will supplement and extend the lecture material. Students should be prepared to do a considerable amount of reading and thinking about the issues. Extra-class sessions can be arranged to pursue issues of less general interest.
Pre-requisite: PSYA01, PSYB51 (PSYB59) or permission of instructor.
Session: Winter Day
C. MacLeod

PSYB58F Brain Mechanisms and Behaviour: I
The relationship between behaviour and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception. Students with prior credit for PSYB65 may take PSYB60 for credit.
The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behaviour of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement. Three lectures and one hour lab or tutorial per week.
Pre-requisite: PSYA01, PSYB51 (PSYB59) or permission of instructor.
Session: Summer Evening (F), Winter Day (F)
E. W. Migram

PSYB58S Brain Mechanisms and Behaviour: II
Physiology of Motivation and Learning
A continuation of PSYB60. Topics covered under the category of Motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered under the category of Motivational processes and memory, structural basis of learning and memory, biochemistry and memory.
The course is designed to provide students with an understanding of the physiological substrates underlying behaviour. Discussions will centre around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In motivation, the general areas of feeding, sexual behaviour, and reinforcement will be discussed from neurological and neuropharmacological perspectives. Neurophysiological basis of learning and memory will be dealt with and then integrated with motivational models to provide a basis for understanding brain function in behaviour. Three lecture-hours per week.
Pre-requisite: PSYB60
Session: Winter Day
T. Parri

PSYB62Y Research in Physiological Psychology
Instruction in a variety of techniques used in the investigation of nervous system function. The course is intended for students particularly interested in the neurosciences who are pursuing a Specialist Program in Psychology, Biology or Neurosciences.
The course starts out with a dissection of a sheep brain. Subsequently, the procedures covered include: (i) histology (preparing and staining of brain tissue); (ii) lesioning specific regions of the central nervous system; (iii) chemical stimulation of the brain; (iv) electrical stimulation of the brain; (v) recording techniques; (vi) electrophysiological recording techniques. Two hours of lectures and three hours of scheduled laboratory work per week; in addition, students might spend a few hours of their free time working in the student laboratory. The course involves a series of five laboratory projects.
Pre-requisite: PSYA01, PSYB50 or STAB57 (MATB57); PSYB51 (PSYB59) or a Biology course, permission of instructor.
Course: PSYB60; PSYB50 and PSYB59 are recommended.
Session: Winter Day
N.W. Migram

PSYB85F Biological Foundations of Behaviour
An examination of the structural and physiological basis of behaviour. The course is geared towards non-biologically oriented students. Students with prior credit for PSYB60 may not take PSYB85 for credit.
The structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behaviour. Once these fundamentals are covered, the course then focuses on the following: disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, mental deficiency and schizophrenia); drugs of misuse and abuse (stimulants, depressants, and hallucinogens); and the biological basis for violence, schizophrenia, depression, psychosis and aggression. Three lecture-hours per week.
Exclusion: PSYB60
Pre-requisite: PSYA01 or permission of instructor.
Session: Winter Evening
T. Parri
PSYC15F  Current Topics in Social Psychology
An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25.
The course will review the development of important theoretical and empirical approaches to the study of social perception. These will include attribution theory, impression formation and recent developments in social cognition. Lectures, discussions and student presentations. Prerequisite: PSYB10, PSYB20 or PSYB10 (plus permission of instructor). Session: Winter Day J. Bassili

PSYC165  Critical Analysis in Social Psychology
Progress in psychology is predicated on developments in both theory and methodology. The primary goal of the course is to enhance skills for critically analyzing both domains in Social Psychology. European and North American approaches to critical thinking are compared. Evolutionary and revolutionary modes of development are contrasted. Disciplinary and professional approaches to social psychology are discussed in relation to scientific progress. Special emphasis is placed on social and personality factors which shape theory construction and validation. Examples are drawn from both cognitive and motivational approaches to social phenomena. Finally, the analogy between Fregel's account of intellectual development in the child and development in social psychology is considered.
Prerequisite: PSYB10, PSYB20, PSYB30
Session: Winter Evening (S), Winter Day (F) D. Stewart, A. Kulka

PSYCS0F/S  Current Topics in Personality and Motivations
An intensive examination of selected issues and research problems in the areas of personality and motivation. Limited enrolment: 25.
The specific content will vary from year to year. Prerequisite: PSYB30 Session: Summer Evening (S), Winter Day (F) D. Stewart, A. Kulka

PSYC32F/S  Current Topics in Abnormal Psychology
An intensive look at selected current problems and issues in the study of abnormal behavior. Limited enrolment: 30.
Topics will be selected from within the broad area of abnormal child psychology, and will include descriptions of child and adolescent behavior problems, classification systems and methods, biological and socio-cultural contributors to abnormality, treatment and management approaches and follow-up studies. Lectures, class discussion, and student presentations.
Prerequisite: PSYB20, PSYB32 Session: Summer Evening (F), Winter Day (S) J. Pauker

PSYC41F  Research in Operant Conditioning
Prerequisite: PSYB01 (PSYB09), PSYB40 (or PSYB41)
Session: Winter Day

G.B. Briderman

PSYC53F  Current Topics in Human Information Processing
An intensive examination of selected issues and research problems in human information processing.
In 1982-83, the course will focus on the application of information to the law, particularly the perceptual and memorial processes which influence the giving of testimony.
Session: Winter Day M. Smith

PSYC545  Art and the Psychology of Perception
Recent theories of perception and representation as applied to art. Theorists to be included are J. Gibson, E.H. Gombrich, R. Arnheim, D.E. Berlyna. Other approaches include information-processing or constructionist approach as posed by D.E. Hockney and R.L. Gregory. Comments from philosophers include N. Goodman, J. Margolis, M. Wartofsky. The kinds of art to be considered include representational and abstract art. Limited enrolment: 25.
There will be 5 lecture sessions with the instructor, and 50 short presentations by students. The bibliography will be included at least one reading from each of the major theorists and theoretical approaches being considered - one from ecological optics (Gibson), one from cognitive-perceptual theory (Gombrich), one from Gestalt-theory (Arnheim), one from experimental aesthetics (Berlyna) and two from constructionist and information-processing approaches. Essays by the instructor each of the above will be submitted. In addition, the philosophers on the optional reading list will form the basis of essays, edited by John Philp "Perceiving Arts" (1980) and the M. Hagen (ed.) 2 volume set "The Psychology of Representational Art" Academic Press, forthcoming will provide a selection of readings.
Prerequisite: PSYB31 Session: Winter Day J. Kennedy

PSYC60F  Current Topics in Comparative and Physiological Psychology
An intensive examination of selected issues and research problems in comparative and physiological psychology.
The course will consider the development of the nervous system and correlate behavior from conception to death. The major emphasis will be on behavioral development and, factors influencing its normal or abnormal growth. The course will also consider the psychological and theories of aging on the brain. Students will be required to work 3-4 hours per week in a laboratory situation, working with a variety of animal species. Two hours of lecture per week.
Prerequisite: PSYB60, permission of instructor Session: Winter Day

L. Petri

PSYC685  Clinical Psychopharmacology
Pharmacology of the central nervous system, pharmakokinetics and theoretical bio-psychiatry. Detailed discussion centres on the psychotropic drugs used as anti-psychotics, anti-manics, antidepressants. Related content areas, such as geriatric pharmacology and pharmacological applications to clinical neuropsychology will be introduced. The course is designed to integrate abnormal psychology and physiological psychology content and research. Lecture, seminar, and practical observation.
Prerequisite: PSYB60 or PSYB65 or permission of instructor Session: Summer (S), Winter Day (S) D.L. Chute

PSYC85F  History of Psychology
Paradigm change in the history of psychology; animism, Greek psychology, the modern era, Descartes, Leibnitz, the English Empiricists; nineteenth century developments; the emergence of descriptive and positivist methodologies; twentieth century approaches, systems theory, functionalism, structuralism, behaviourism, phenomenology. Limited enrolment: 35.
The course examines the diverse contributions of the Greek philosophers which established the foundation of Western thought. The course then turns to the conceptual, methodological and factual developments in both continental and English science and philosophy from the seventeenth to the nineteenth centuries. The appearance of psychology in its modern form in the second half of the nineteenth century is discussed and a critical analysis is provided of the various schools including systems theory, functionalism, structuralism, behaviourism and phenomenology. Prerequisite: PSYB10, two B-level half-courses in Psychology Session: Winter Day G. Cupchik

PSYC85F/S/H  Supervised Study in Psychology
A reading or research project. These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not prerequisites for advanced courses in fields where these are available. The student must demonstrate that his or her background is adequate for the project proposed and should present a clear rationale to
Prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will normally culminate in a written submission but other bases of evaluation may also be determined by the supervisor.

Prerequisite: Three full-course equivalents in psychology, permission of instructor. Session: Winter Day, Winter Evening Supervision by a faculty member.

PSYC88Y Thesis in Psychology

This course is intended to offer qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others and to discuss the results of their investigations.

Students will meet as a group with the coordinator as well as individually with the supervisor.

Prerequisite: Satisfactory completion of fifteen full-course equivalents in any discipline but including PYS807, one laboratory half-course in psychology, and two additional full-course equivalents in psychology; consent of a faculty member in psychology to serve as research supervisor.


Courses Not Offered in 1982-83

PYS695A Environ. and Mach. in Psych.

Prerequisites: PSY41, qualitative skills such as are required in PSY101, or PSY100 are an advantage.

PYS705 Independent Study

Prerequisite: PSY301.

PYS405 Current Topics in Animal Learning

Prerequisite: PSY204.

PYS525 Structures in Psychology

Prerequisites: PSY205 or AT857 (MA only), PYS525 (PSY120) or PSY521, permission of instructor.

PYS609 Philosophy and Psychology

Prerequisite: Three B-level half-courses in psychology and one B-level half-course in philosophy.

Major Programme in Quaternary Studies

Supervisor: J.A. Westgate (034-916) The Quaternary Period embraces the last two million years of Earth History. Major climatic changes which occurred during this time resulted in repeated expansion and recession of continental and mountain glaciers, alternating wet and dry periods in low latitudes, marked fluctuations in sea level, development of ephemeral but often large inland seas and pleistocene lakes, etc.

These climatic changes have significantly influenced the distribution and, to an extent, the forms of plant and animal life on earth today. Among these are the hominids whose appearance and development coincides with the Quaternary.

Detailed reconstruction of Quaternary environments—both the physical and biological components of the landscape—and their placement in a historical context is clearly an interdisciplinary task. Such studies bring together the Quaternary geologist, physical geographer, historical ecologist, paleoanthropologist, archaeologist and many others. In this programme the student will develop expertise in the multidisciplinary approaches used in studying the Quaternary as well as specialist expertise in one or more of the sub-disciplines.

The programme consists of seven courses, two of which are required, QUAC10Y and QUAC10X. Both reflect the interdisciplinary nature of Quaternary Studies and are presented by faculty from Simon Fraser University and occasionally from other parts of the University who are involved in Quaternary research. Of the remaining five courses required, the student is given wide choice but it is recommended that he/she develop expertise in one (or more) of the sub-disciplines by following a sequence of A and B-level courses as noted below.

A Level: QUAC10Y (NSC202) Ice Ages and Human Evolution

plus at least two of: ANAT10Y Introduction to Anthropology

BIOG10Y Introduction to Biological Geography

GLAC10Y Introduction to Geology

B Level: QUAC10X (NSC203) Quaternary Environments and Man

at least three full-course equivalents from:

INTB20Y Introduction to Prehistoric Archaeology

INTB11Y Human Behaviour in the Old Stone Age

INTB12Y The Rise of Civilization

INTB14Y Fundamentals of Ecology

IB039B Biogeography

IB111Y Quaternary Plant Ecology

IB507Y Geomorphology: The Proterozoic Epoch

SCI250Y Geomorphology: The Quaternary Epoch

SCI260Y Sedimentary Geology

SCI270Y Mineralogy and Petrology

SCI280Y Stratigraphy and Sedimentation

The student should note that prerequisites for these courses are not included in the Quaternary Studies Programme.

MAC61Y Quaternary Environments and Man: an interdisciplinary course on the physical, historical, archaeological and cultural aspects of the Quaternary Period. The seminars and reading list for the course will be devised to recent, interdisciplinary, methods in environmental reconstruction. The laboratory part of the course will be a series of projects on topics of geological, biological and cultural aspects of plain and slope complex will be directed in an integrative field and laboratory environment.

One two-hour seminar per week, one three-hour field laboratory per week, alternates weeks. Session: Winter Day.

Courses Not Offered in 1982-83

UBAD5Y Ice Ages and Human Ecology: Exclusion (NSC203)

Renaissance Studies

These Programme are for students who wish to study the cultural, arts and intellectual aspects of the period known as the Renaissance. Its nature is interdisciplinary, and it necessitates learning the methods of more than one discipline. Many of the courses (those with an asterisk) require permission within the discipline that offers them, and the student is advised to plan his Programme carefully so that he does not choose more courses with prerequisites than he can qualify for. For example a student who plans to take ITAB12Y, ITAB325 or ITAB345 should note that ITAB12Y or ITAB11Y is a prerequisite to these courses, and plan his programme accordingly. The student should also note that some of the normal prerequisites can be waived for students in these programmes. (It will be noted that courses on the St. George campus are also listed. The student, however, should check that the majority of his courses at Scarborough College—see p. 25.)

Specialist Programme in Renaissance Studies

Supervisor: E. P. F. Virtne (034-9175)

Students must complete at least one full-course equivalent, two from each of the following categories:

1 Background

The student must take one full-course equivalent from (a) and one from (b) and one from either (c) or (d).

1a HIST80Y Europe in the Middle Ages

1b HIST81Y Europe in the Reformation Era

1c HIST83X Tudor and Stuart Britain

1d HIST83Z The Renaissance in England

1e HIST84X The European Mentality in the 16th Century

1f HIST85Y The Renaissance

1g HIST85Z Politics and Social Change in England

1h HIST85A Early Modern Europe (1540-1945)

IC103X The Italian Renaissance

1j HIST835Y Renaissance and Baroque France

1k HIST836Y Renaissance and Baroque France

1l HIST837Y European Social History

1m HIST838Y The Dynamics of European Economy

1n HIST10Y Basic Christian Beliefs

1o REL100Y Reformation in the Sixteenth Century

1p REL20Y Christianity: Middle Ages and Renaissance
Courses in the Literature:

- ENG101Y* Poetry and Prose of the English Renaissance
- ENGB10Y Shakespeare
- ENGB12Y English Drama to 1642
- ENGB20Y* Studies in the Renaissance Literature
- ENGC10F* Problems in Later Shakespeare
- FANC15Y* Baroque and Mannheim
- ITA31* Life of Dante and Medieval Culture
- ITA32F* Petrarch and Boccaccio
- ITA33F* Machiavelli and Renaissance Thought (Exclusion: HUMB50S)
- ITA34F* The Renaissance Epic
- ITA35F/FS* Italian Sixteenth-Century Theatre
- ITA36F/FS* Lyric Poetry of the Renaissance
- ITA40F/FS* Renaissance and Reformation Literature
- HUMB21S The Literature of the Spanish Mystics
- HUMB33Y World Visions from the Late Middle Ages to the Renaissance
- HUMB40S Machiavelli and Aspects of the Italian Renaissance (in translation) (Exclusion: ITA35/36S)
- HUMB46F* Humanities Seminar
- JSBB24F Golden Age Drama
- SPA302S* Golden Age Poetry
- SPA305Y* Golden Age Literature
- VIA32Y* Renaissance Italian Literature in Translation

Major Programme in Renaissance Studies

Supervisor: E.P. Vicari (284-3175)

Students must complete seven full-course equivalents from the following list:

1. Background

Two full-course equivalents from the following:

- HIS13Y* Europe in the Reformation Era, 1500-1650
- HIS12Y* The Renaissance, 1350-1550
- HIS14Y* The European Mentality in the Early Modern Period (1500-1700)
- HIS23Y* The Early Modern Period (1500-1700)
- HIS35Y* Greek and Roman Mythology
- REL15Y Basic Christian Beliefs
- REL25Y* Reformations in the Sixteenth Century
- REL35Y Christianity in the Middle Ages and Renaissance
- REL30Y The Mythological Framework of Western Culture
- PHLB44F Philosophers of the Middle Ages
- PHLB45S Philosophers of the Middle Ages II
- PHLB46F Plato and His Predecessors II

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. All Russian literature courses, with the exception of RUSC01Y, RUSC02Y, RUSC03Y, RUSC04Y, and RUSC05Y, are taught in translation and are open to non-specialists.

Fine Art, Music and Drama

Two full-course equivalents from the following:

- ARB15F* Renaissance in Italy
- ARB16Y The Arts of Northern Europe, 1400-1500
- ARB19Y Michelangelo
- ARB20Y* Advanced Studies in the High Renaissance
- RUS04F* Music of the Renaissance
- RUS15F* Music in Elizabethan England
- RUS30H Early Music
- RUSA12B Medieval and Early Tudor Drama
- RUSK0Y European Art from 1400-1750

Language and Literature

Three full-course equivalents from the list under (A) of Specialist Programme.

College Programme in Russian and Related Studies

Supervisor: S. Whalen (284-3258)

This Programme is designed for students interested in Russia and Eastern Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a Programme in Russian and Related Studies can do much to promote a better understanding between East and West. In academic, governmental, industrial, journalistic and other fields.

The Programme is aimed at two different groups of students: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature; second, those interested in a general knowledge of the area as a complement to some other field of study.

The Programme requires the completion of ten full-course equivalents, one of which must be at the C-level:

1. Two consecutive courses in Russian language from RUSA 10Y, RUSA20Y, RUSA30Y.
2. Four courses to be chosen from the following three groups and to include one from each group:
   a. RUS811Y The Eighteenth Century
   b. HIS07Y Russia from the Thirteenth Century to the Present
   c. POL866Y Soviet Government and Politics
   d. ECOA01Y Introduction to Economics

Discipline Representative: S. Whalen

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. All Russian literature courses, with the exception of RUSC01Y, RUSC02Y, RUSC03Y, RUSC04Y, and RUSC05Y, are taught in translation and are open to non-specialists.

The student must take two of FARB32F, FARB32G, and FARC09F, and two additional full-course equivalents from this group:

- FARB15F* Renaissance in Italy
- FARB16Y The Arts of Northern Europe, 1400-1500
- FARB19Y Michelangelo
- FARC09F* Advanced Studies in the High Renaissance
- MUSB04F Music of the Renaissance
- MUSB15F Music in Elizabethan England
- MUS30H Early Music
- DRA212B Medieval and Early Tudor Drama
- FAH200Y European Art from 1400-1750

Language and Literature

The student must take three full-course equivalents in literature, one of which at least must be in a language other than English. In addition to the three literature courses, therefore, he may have to satisfy prerequisites in language, from those listed below.

Prerequisites in French:

- FREB0Y Language Practice

Prerequisites in Italian:

- ITA00Y or ITA11Y or Grade 13 Italian
- ITA01Y or ITA11Y

Prerequisites in Spanish:

- SPA30Y or Grade 13 Spanish
- SPA31Y
- SPA35S
Social Science

**SOSB015 Origins of the Social Welfare System**
The philosophy and history of the Canadian welfare system. Its religious, secular, political and economic origins will be explored in some detail. Against this historical and ideological background, some current problems will be examined: guaranteed income, services for children and the elderly.

Session: Winter Day

**NOTE** Please refer to the Women’s Studies section of the Calendar for additional Social Science courses.

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**Overseas Programme**

Students in the Russian and Related Studies Programme, after completing their second year of Russian language study, become eligible to apply to go to the Pushkin Institute of Russian Language and Literature in Moscow, USSR, as participants of the Russian Studies Programme at Dalhousie University in Nova Scotia.

Each year some twelve Canadian students are selected by Dalhousie to spend four months studying Russian in Moscow (February - May). The programme involves 4 1/2 hours of intensive instruction per day by Soviet staff; students are housed three to a suite at the University Hotel; late afternoons and evenings are free for cultural and other activities. The cost, which covers air transportation Montreal-Moscow return, tuition, texts, room and board, is $2,500.

Before applying to Dalhousie, and in order to improve their chances, interested students are encouraged to undertake some additional Russian language study in a supervised reading course. For information consult the Supervisor.

**Major Programme in Russian Language and Literature**

Supervisor: S. Whalen (284-3258)

The Programme consists of seven full-course equivalents:

1. Two consecutive courses in Russian Language from RUS901Y, RUS902Y, RUS905Y

2. Five further full-course equivalents to be chosen from:
   - RUS901Y, RUS911Y, RUS921Y, RUS923Y,
   - RUS924F, RUS901Y, RUS903S, RUS904H,
   - HUMB13Y, HUMB42S, HUMB44F.

Students must include at least one full-course equivalent at the C-level.

See also the Specialist Programme in Language and Literature.

**RUS901Y Russian Culture**

An introduction to Russian culture from the tenth century to the present.

The course covers aspects of Russian culture from Religion, Social Anthropology, History, Language, Literature, Music and the Arts. Films and slides will be part of the presentation. No knowledge of Russian language is required. The course makes use of invited speakers (two hour session per week) tutorials follow each presentation (1 hour per week).

The basic text used in the course is Jhum Billington The Icon and the Axe, an Interpretative history of Russian Culture, New York 1967.

Session: Winter Day

Co-ordinators: C. Ponomeff, S. Whalen

**RUS902F Introductory Russian**

Fundamentals of Russian grammar, with emphasis on comprehension and reading, writing and conversation.

The course is designed to introduce the student to the Russian language: reading, writing, elementary grammar, basic comprehension and conversation. Starting with the Cyrillic alphabet, students will study declensions, conjugations, the aspectual system and word order. Equal emphasis is given to written and oral drills. In addition to structural oral work in laboratory and class, conversation based on material read is encouraged. Four class hours, in addition to which the student is expected to spend one hour in the language laboratory. The textbook used is Galina Stirman and others, Introductory Russian Grammar, Xerox College Publishing.

Session: Winter Day

K. Noskov

**RUS904H Intermediate Russian**

Expanded study to increase ability in speaking, writing and reading Russian.

A study of Russian morphology involving translation, composition, selected reading in the original and conversation. Four hours a week in two intensive two hour sessions plus additional language laboratory practice. The textbooks used are: P.A. Davis and D.V. Oprenel, Making Progress in Russian, Xerox, 1973. S. Khavronina

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**RUS905Y Supervised Reading**

These supervised reading courses are designed for one individual or very small groups of students who would like to pursue specific projects in Russian language and/or literature. Classes usually meet every other week for a two-hour session and students engaged in a literary project are expected to produce a paper in their area of study.

Prerequisite: RUS902

Session: Winter Day or Winter Evening Staff

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**Course Not Offered in 1982-83**

RUS901B Introductory Russian Conversation

RUS911S Elementary Conversation

Prerequisite: RUS902

Corequisite: RUS910B

RUS911B Intermediate Russian Conversation

Prerequisite: Grade 13 Russian or a comparable introductory course

RUS9110 Intermediate Conversation

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The Nineteenth-Century Russian Novel, 1830-1880

The Fiction of Leo Tolstoy

Twentieth Century Russian Fiction (1900-1940)

Soviet Russian Underground Literature from the 1920's to the Present

Post-1945 Soviet Russian Literature
**Society, Values and Medicine**

The programme provides a focus for the study of social, political and ethical aspects of medicine in North America and cross culturally.

There has in the last decade been an increasing awareness of the large extent to which social, political and ethical judgments and concepts are involved in the theory and practice of medicine. There has also been a growing awareness that, while an increased ability on the part of physicians to deal with these aspects of medicine is desirable and clearly needed - an excellent reason for those contemplating a medical career to consider seriously this programme - these are matters on which society and not medicine alone should deliberate and make judgments. However, this requires that individuals be exposed to the issues and be provided with the analytic skill that enable them to think as clearly as possible about the issues. This programme is designed to meet these requirements.

**Major Programme in Society, Values and Medicine**

Supervisors: M. Hammond (Sociology 284-3133); P. Thompson (Philosophy)

The programme requires completion of six full course equivalents as described below.

1. ANTB41Y; ANT45F/S or ANTD40F/S; PHLB05F/S; PHLC05F/S; PSYB52F/S; PSYB56F/S; SOCB17F/S
2. Two full-course equivalents from the following groups: ANTB41Y, PHLB17F/S, PHLC17F/S, PSYB56F/S, SOCB11Y, SOCB19Y, SOCC28F/S, ANTB47F/S; and whichever course of ANT45F/S or ANTD40F/S was not selected in 1.

Note: ANTB41Y and PSYB52Y are normally prerequisites for ANT1 and PSY1 courses in this programme.

**Specialist Programme in Society**

Supervisor: S. Unger (284-3109)

The programme requires completion of eleven and one half full-course equivalents as described below. No more than fourteen full-course equivalents in Society may be included in the four-year degree.

1. SOCA01Y Introduction to Sociology
2. SOCB01Y Methods in Social Research
3. SOCB06F/S Social Statistics
4. SOCB03Y History of Social Thought
5. SOCB05Y Contemporary Social Theory
6. One full-course equivalent in a macrostructural field at the B-level. Any one of SOCB04Y, SOCB05Y, SOCB10Y, SOCB13Y, SOCB14Y, SOCB15Y, SOCB16Y, SOCB20Y, SOCB23Y or JCSB27Y.
7. One full-course equivalent in a microstructural field at the B-level. Any one of SOCB12Y, SOCB07Y or SOCB08F/08S.
8. Two full-course equivalents from the C-level offerings from the courses numbered C01 to C29 inclusive.
9. One full-course equivalent from the C-level offerings: SOCC40F/S, SOCC41F/S, SOCC42F/S or SOCC43F/S.
10. Two full-course equivalents from disciplines other than Sociology shall be agreed upon in consultation with the Supervisor.

**Major Programme in Sociology**

Supervisor: S. Unger (284-3109)

The programme requires completion of six full-course equivalents in Sociology including:

- SOCA01Y Introduction to Sociology
- One of the microstructural courses at the B-level: SOCA02Y, SOCA08Y, SOCA09Y, SOCA10Y.
- One full-course equivalent at the C-level in Sociology.
- Two or three B- or C-level full-course equivalents following the usual prerequisite rules applying to the chosen course. (e.g. C-level microstructure follows from B-level microstructure).

**Society, Values and Medicine**

Introduction to Sociology

An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, and social institutions and social change.

Session: Winter Day, Winter Evening

James, S. Unger/R. O'Toole, J-L. deLannoy

**Society, Values and Medicine**

Methods in Research Social Work

The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to read and critically evaluate research. Several studies will be examined in detail, and then students will be given the opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses.

Prerequisite: One full-course equivalent in Sociology.

Corequisite: SOCB06

Session: Winter Evening

N. Howell

**Society, Values and Medicine**

Structure of Interpersonal Relations

Patterns of interaction and influence in interpersonal relations. The course begins with a consideration of the problem of social order; i.e., how we constrain individual desires and induce people to act morally. We will also examine the problem of the "absurd", using Camus' Outsider. This will be followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "altercasting" our behavior, with examples drawn from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations.

Prerequisite: One full-course equivalent in Sociology.

Session: Winter Day and Winter Evening

J. Lee

**Society, Values and Medicine**

History of Social Thought

A study of the development of sociology and the works of sociologists whose ideas have historical interest and contemporary relevance. The course begins with a basic discussion of the nature of sociological theory and a look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary sociological thought will be considered.

Prerequisite: One full-course equivalent in Sociology.

Session: Winter Evening

J-L. deLannoy

**Society, Values and Medicine**

Political Sociology

A review of social and political theories; major political ideologies; political development and emergence of modern nation-state; political action (political protests, revolutions and wars of independence). The course will examine a number of contemporary issues such as the question
SOCB05 Urban Sociology
A review of theories of urban genesis and urban form, interrelationship of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, unemployment, etc.), urban social networks (ethnic and cultural heterogeneity, neighbourhood, community and other voluntary associations).
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
J. Hannigan

SOCB06 Social Statistics
A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises.
This course is intended to supplement SOCBO1.
Exclusion: PSYB07, ECOC01
Prerequisite: One full-course equivalent in Sociology
Corequisite: SOCBO1
Session: Winter Day
N. Howell

SOCB07 Small Groups
Analyses of small group behaviour with special reference to the dynamics of structure formation, conflict patterns, maintenance patterns, and patterns of change. Limited enrolment: 20.
The first term will be conducted as an academic self-analytical group; the second term as a seminar. The method in the first term will be participation in group task performance supplemented by regular reading and written reports; and in the second term, class reports, discussions and research reports.
Prerequisite: Two courses in Sociology, one of which must be a B-level course.
Session: Winter Day
W. Issawi

SOCB08 Sociology of the Family as a Group
The sociological study of the family in contemporary Western society. This course will focus on the family as a small group, emphasizing the family life cycle, member roles, interaction, patterns and interpersonal problems in the family relationships.
Exclusion: SOCBO12
Prerequisite: SOCA01
Session: Winter Day
R. James

SOCB09F Sociology of the Family as an Institution
An examination of the family in its community, institutional and historical setting, emphasizing the various social factors which will affect family life and its changing nature.
Exclusion: SOCBO12
Prerequisite: SOCA01
Session: Winter Day
M. Baker

SOCB10Y Social Class and Social Stratification
Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems; social classes and associated behavior; social mobility; and class conflict.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Evening
M. Hammond

SOCB11Y Sociology of Science
A study of the relationship between science and society. In the first term, the effects of different social structures on the development of science and scientific ideas will be analyzed in a number of historical contexts. During the second term, the effects of science on contemporary societies will be studied, with particular attention given to the Canadian situation. For instance, we will consider from a sociological perspective such topics as the war and energy and genetic engineering. This course will be of interest to students of both the natural and social sciences.
Session: Winter Day
M. Hammond

SOCB13Y Canadian Society
An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of energy resources, the future of Quebec and the question of a distinctive national identity.
Exclusion: (SOCBO8)
Prerequisite: SOCA01
Session: Winter Day
D. Tippin

SOCB15Y Sociology of Mass Media and Communications
The study of the social organization of the mass media - radio, TV, newspapers, magazines and trade publications - and of the effects of the contents of mass communications on the general public.
Exclusion: (SOCBO14)
Prerequisite: SOCA01
Session: Winter Day, Summer Day
J. Hannigan

SOCB17Y Medical Sociology
Social factors in sickness and health, training of doctors and nurses, organization of health care services, and alternatives to conventional medical care. This course is designed to meet the needs of students in both the natural and the social sciences.
Session: Winter Day
M. Hammond

SOCB18Y Sociology of Deviant Behaviour
The analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as crimes against persons, "victimless crimes", mental illness, sexual deviation and alcoholism.
Prerequisite: One full-course equivalent in Sociology
Session: Winter Day
R. James

SOCB24F Sociology of Education: Primary and Secondary Levels
The sociology of the classroom, peer group influences on school performance, social class and sub-cultural influences on students and teachers. The formal organization of school systems.
Exclusion: (SOCBO8)
Prerequisite: SOCA01
Session: Winter Day
A. Lee

SOCB26S Sociology of Education: University and Adult Levels
Allocation and training of upper-level students, and relationships of higher education to the occupational system. Problems of education or retraining for older adults.
Exclusion: (SOCBO8)
Prerequisite: SOCA01
Session: Winter Day
J. A. Lee

JCSB27Y Organizational Behaviour
Social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Empirical studies used in the first term will focus on single organizations. Those used in the second term will focus on industries and other inter-dependent organizations.
Prerequisite: One previous course in Sociology, Commerce, Economics, or Political Science
Session: Winter Day, Winter Evening
D. Tippin, M. MacKinnon

SOCB28F Collective Behaviour
The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course.
Session: Winter Day
J. Hannigan

SOCB05Y Contemporary Social Theory
A consideration of basic questions underlying sociological thinking as they arise in the work of contemporary theorists and theoretical schools. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally required, a previous course in social and/or political theory (e.g. SOCBO3Y) would be a distinct asset.
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course.
Session: Winter Day
M. Hammond

SOCB07S Sociology of Occupations and Professions
A study, within the context of the relevant sociological theories of Durkheim, Weber and Marx, of the relationship of people to their work and their occupation through the examination of particular occupations in industry, bureaucracy and the professions. Career choice and patterns,
questions of satisfaction and alienation, and future changes and trends are analysed with special reference to the Canadian labor force. Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course. Session: Summer Evening D. Tippin

SOCCL1S Sociology of Law and Law Enforcement
Studies of existing legal systems, the process of creation of legislation, court interpretation of law, and the law enforcement institutions. Prerequisite: SOC18. Session: Winter Day J.A. Lee

SOCCL3S Industrial Sociology
Comparative studies of industrial organization, considering scale, division of labor, organization of work teams, levels and forms of organization. Prerequisite: One B-level full-course equivalent in Sociology (JCS287 recommended). Session: Winter Day M. Mackinnon

SOCCL7F Social Change in the Third World
Sociological studies of stratification, politics, religion, education, and kinship organization in countries of Africa, Asia, Latin America. Prerequisite: Two courses in Sociology, one of which must be a B-level course. (SOC814 and SOC816 recommended.) Session: Winter Day J.-L. de Lannoy

SOCCL8Y Sociology of Art and Culture
A seminar on the organization, production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose any form of "high culture" for special research. Exclusion: SOC008 and SOC185F/S. Prerequisite: Two full-course equivalents in Sociology. Session: Winter Day R. Beals

SOCCL9F Sociology of Knowledge
The sociology of knowledge as a social process. Exclusion: (SOC22). Prerequisite: SOC03. Session: Winter Day W. Isaac

SOCCL32Y Sociology of Religion
A sociological analysis of religion as a social institution. Consideration of the problem of a definition of the phenomenon; analysis of major theoretical and empirical contributions to the field; and investigation of the forms of religion in historical and contemporary contexts. Exclusion: (SOC205F/S). Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course. Session: Winter Evening R. O'Grady

SOCCL23S Qualitative Methods in Social Research
Systematic analysis of basically non-statistical or qualitative materials. The craftsmanship of research. The problems, limitations and techniques of sociohistorical analysis, content analysis, and methodologies for the study of non-academic materials from non-scholarly sources. Limited enrolment: 15. Prerequisite: SOC201 and one B-level course in Sociology. Session: Winter Day N. Howlett

SOCCL24S Changing Family Life in Canada
Examination of the major changes in the structure of the family in Canada, and its consequences for family life. Prerequisite: Two courses in Sociology, one of which must be a B-level course. Session: Winter Day M. Baker

SOCCL295 Variant Family Forms
A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns in the 1970’s. Included will be "singleness", "living together", androgyne as a life style, non-monogamous forms, voluntary childlessness, communes and cooperatives, and "swinging": Special reference to structural and functional dimensions, role changes, special problems and community response. Prerequisite: SOC208 and SOC209. Session: Summer Day R.L. James

SOCCL30S Criminal Behaviour
An advanced study of the causes and consequences of criminal behavior, with special emphasis on Canada. Exclusion: (SOC211). Prerequisite: SOC18. Session: Winter Day R. Baker

SOCCL40F/S Supervised Independent Research
Student research by field methods, survey analysis or library research. Regular supervision of data collection and analysis, culminating in a research report. Prerequisite: Completion of fifteen full-course equivalents including SOC201, SOC203 and SOC206. By permission of instructor only. Session: Winter Day S. Staff

SOCCL41S Supervised Independent Research
Student research by field methods, survey analysis or library research. Regular supervision of data collection and analysis, culminating in a research report. Prerequisite: Completion of fifteen full-course equivalents including SOC201, SOC203 and SOC206. By permission of instructor only. Session: Winter Day R. Isaac

SOCCL42S Advanced Seminar in Sociological Theory
Special topics in contemporary sociological theory. Prerequisite: Two courses in Sociology, one of which must be a B-level course. Session: Winter Day R. Ungar

SOCCL43F Advanced Seminar in Research Methods
Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a specialisation in Sociology. Prerequisite: SOC203, SOC201, and SOC206. Session: Winter Day S. Staff

Courses Not Offered in 1982-83

SOCCL14Y Comparative Social Structure
Prerequisite: One full-course equivalent in Sociology

SOCCL16Y Social Change
Prerequisite: One full-course equivalent in Sociology

SOCCL19Y Sociobiology
Prerequisite: One full-course equivalent in Sociology

SOCCL20Y Ethnic and Race Relations
Prerequisite: One full-course equivalent in Sociology

SOCCL23Y Population
Prerequisite: One full-course equivalent in Sociology or JCS207

SOCCL01/S Sociology of Revolution
Prerequisite: Two full-course equivalents in Sociology (SOC214 and SOC216 recommended)

SOCCL02/S Research on Small Groups
Prerequisite: SOC202 or SOC101 or SOC107 or PSY10 or permission of instructor

SOCCL04S Social Movements
Prerequisite: Two courses in Sociology, including a B-level course

SOCCL06F Applied Sociology
Prerequisite: Two courses in Sociology

SOCCL10F Sex, Self and Society
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCCL12F Mathematical Methods in Sociology
Prerequisite: Permission of instructor

SOCCL16F/S Sociology of Conflict
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCCL25F/S Comparative Race Relations
Prerequisite: Two full-course equivalents in Sociology, one of which must be a B-level course

SOCCL26F Sociology of Urban Growth
Prerequisite: Two full-course equivalents in Sociology

SOCCL27F Social Class in Canadian Society
Prerequisite: Two full-course equivalents in Sociology

SOCCL28F Sociology of Aging
Prerequisite: Two full-course equivalents in Sociology
Spanish

Discipline Representative: R. Skyrme

Students enrolling in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literatures. Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may prove valuable to these students as adjuncts to their plan of study or as enrichment of their total programme.

Students intending to enrol in the Specialist Programme in Modern Languages or in the Specialist Programme in Language and Literature should consult the listing in the Calendar. It is important that students enrolled in Spanish, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, confer with the relevant Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled programme.

Major Programme in Spanish Language and Literature

Supervisor: R. Skyrme (284-320S)

Seven full-course equivalents are required as follows:

SPAO1Y/1Y Introductory Spanish (Note: Students who have Grade 13 Spanish must complete, in place of SPA01Y, one full-course equivalent from SPA courses which are not named in the programme.)

SPAO02H Language Practice I

SPAO01Y/B Intermediate Spanish

SPBA02H Language Practice II

SPAO01Y Advanced Spanish

SPBA12S Phonetics

HUMB15Y The Civilization of Spain or

HUMB14Y Topics in Latin American Culture and Literature

SPAO20H Pre-literacy Examination of Texts

SPAO1Y/B Survey of Spanish Language Literature

SPAO1Y/B Survey of Spanish Literature

3 One half-course from each of the following areas:
   a) Pre-modern Literature: B35F/S, B36F/S, HUMCO1F/S

Information on the sequence and scheduling of these courses should be obtained from the Supervisor.

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

SPAO1Y Introductory Spanish

A course in basic grammar and syntax, with instruction in spoken and written Spanish. Stress is placed on oral practice and conversation. Regular class attendance and participation are essential. Three hours per week: 1 hour grammar; 2 hours oral practice.

Exclusion: Grade 13 Spanish

Corequisite: SPA02H

Session: Winter Day

R. Skyrme

SPAO2H Language Practice I

A companion course to SPAO1Y.

Through the gradual introduction of reading material, composition, and sketches, this course forms an essential complement to the predominantly oral approach of SPAO1Y. Two hours per week in tutorial format.

Exclusion: Grade 13 Spanish

Corequisite: SPAO1Y

Session: Winter Day

R. Skyrme

SPAO01Y Intermediate Spanish

A continuation of SPAO1Y.

The same format and methodology will be followed at a more advanced level. Three hours per week: 1 hour grammar; 2 hours oral practice.

Exclusions: Grade 13 Spanish or SPAO1Y and SPAO02H

Corequisites: SPAO1Y, SPAO02H

R. Barta

SPAO20H Language Practice II

A companion course to SPAO1Y.

A through reading material, composition, translation, and play-acting, this course forms an essential complement to the predominantly oral approach of SPAO1Y. Two hours per week in tutorial format.

Exclusions: Grade 13 Spanish or SPAO1Y and SPAO02H

Corequisite: SPAO1Y

Session: Winter Day

R. Barta

SPBA13F Romanism

The origin and growth of the Romantic movement in Spain; its relationship to Neo-Classicism and the Spanish tradition; a detailed study of the works of its principal exponents.

A sampling of late Neo-Classical writing will lead to a concentration on the major exponents of the poetry, prose, and drama of the Romantic period, from Rivas, Laara, and Expreso de la Zarhia to Zorrilla and Bécquer. The relationship of the Romantic movement to the Spanish literary tradition and, where appropriate, to the Romantic literature of other countries will also be emphasized. Class participation and discussion are encouraged in the lecture-tutorial format.

Prerequisite: SPA01Y

Session: Winter Day

R. Skyrme

SPBA19Y Survey of Spanish Literature II

From the eighteenth-century to the present.

Reading, analysis and discussion of major texts of Peninsular Spanish literature of the period. A continuation of SPBA18Y

Lectures on background material. Areas of study will include representative texts from eighteenth-century Neo-Classicism, nineteenth-century Romanticism, Positivism, Realism and Naturalism. The late nineteenth and the twentieth centuries will be studied according to the concept of literary generations. Three lecture/discussion hours weekly. Class participation is essential.

Prerequisite: SPA01Y

Session: Winter Day

R. Barta
SPA292S History of the Spanish Language II
The Spanish language from the medieval period to the present.

Through analysis of texts from the ninth to the twentieth centuries, this course will focus on
inherent changes in and external influences on the development of Castilian from a dialect in the
medieval period into one of the major languages of modern times.

Three hours per week in tutorial format.
Prerequisite: SPA102
Session: Winter Evening
P. León

SPA295S Golden Age Prose
The development of Spanish prose writing in the Golden Age. The following genres and works will be
studied: (a) The Moorish novel: El Abencerraje or Historia de Abenazer de Yarfa (N. Y. Las
Americas, 1964), G. Pérez de Hita, Las guerras civiles de Granada (Mimeo), the picaresque
novel: El Lazarillo de Tormes, (Ed. R. O. Jones, Univ. of Manchester Press), and examples of the
later picaresque (Mimeo). (c) The didactic prose: Alonso de Valdés, El dialogo de Mecurio y Carón
(Classicos Castelianos). (d) The exemplary novel: Cervantes, Las novelas ejemplares (Clasicos Cas-
telianos, V.I.)
Prerequisite: SPA03
Session: Winter Day
P. León

SPA30F Spanish American Literature: The Short Story
The history of the Spanish cuento.

Examination of short stories by Spanish and European authors in order to attempt a definition of
the short story: reading, analysis and disuc-
sion of the various forms of the Spanish Ameri-
can short story. Two hours per week in lecture/
tutorial format.
Prerequisite: SPA01
Session: Winter Evening
P. León

SPA305S The Novel of the Mexican Revolution
A study of the various types of novels written in
Mexico from 1910 to the present time.

An attempt will be made to analyze the
Mexican Revolution, firstly as a political and
social event, with reference to other contemporary
revolutions, and secondly, as a literary
movement. Excerpts from various literary works
will be read in order to gain an understanding of
the different approaches to the revolutionary
novel.

Two hours per week in lecture/tutorial format.
Prerequisite: SPA401
Session: Winter Evening
P. León

SPA328S Spanish American Poetry 1800-1809
A study of the Modernist movement, involving an
examination of the attitudes, themes, and tech-
niques of some of its major authors.

The course begins with a study of the initiators
of Modernism and of the principal characte-
ristics of the movement, to show how it diverged
from earlier Spanish American literature and
drew inspiration from poetic developments in
nineteenth-century France. This is followed by a
detailed examination of the poetic evolution of
Rubén Darío, whose poetry serves as a frame-
work for comparison with similar themes, atti-
udes, and techniques in other mature
expounders of Modernism. Finally, an attempt is
made to assess the importance of the movement
for later poetic developments in the Hispanic
world. Class discussion is encouraged in lecture-
tutorial format.
Prerequisite: SPA03
Session: Winter Day
R. Smyth

SPA301Y Advanced Spanish
Intensive study of grammar and syntax; translation,
composition, and oral practice.

Detailed examination of the subtleties of Span-
ish grammar through intensive practice in
translation from and into Spanish; composition,
and conversation. Three hours per week in lec-
ture/tutorial format. Course required for Spanish
Major, but open to all qualified students.
Prerequisite: SPA01
Session: Winter Day
R. Barta

SPA302F-C06F
C075-C10S
C11Y Supervised Reading
Students who wish to enroll in the Spanish
Supervised Reading programme should enroll in
any of the above courses (Y, F, or S as appropri-
ate). They should then contact a particular
instructor in the discipline and discuss with him
a proposed topic. Students should have suffi-
cient background in the area they want to study
more closely, and they should provide a rationale
for choosing a specific topic. They will be
expected to read much of the material on their
own, and to meet with their tutor once a week.
The exact arrangements will depend on the

Nature of the text and the level of ability of the
students.

Specific topics in Peninsular Spanish and
Latin American literature, linguistics and culture.
Prerequisite: SPA03, one course in Spanish
Literature
Session: Winter Day
R. Barta, P. León, R. Smyth

See also the following courses offered under
Humanities:

JUMB11Y Topics in Latin American Culture
and Literature
JUMB11Y The Civilization of Spain
JUMB31Y The Literature of the Spanish
Mythics
JUMB45S The Spanish Civil War: Fact to
Fiction
JUMCO1S Lyric Poetry of the Middle Ages in
the Mediterranean Area

Courses Not Offered in 1982-83

SPA12S History of the Spanish Language I
Prerequisite: SPA04
Session: Winter Evening
R. Barta

SPA17F The Nineteenth-Century Spanish
Novel
Prerequisite: SPA04
Session: Winter Evening
R. Barta

SPA18Y Survey of Spanish Literature I
Prerequisite: SPA01
Session: Winter Day
R. Barta

SPA21S Stylistics and Translation
Prerequisite: SPA01
Session: Winter Day
R. Barta

SPA24F Golden Age Drama
Prerequisite: SPA01
Session: Winter Day
R. Barta

SPA27S The Poetry and Theatre of Garcia
Lorca
Prerequisite: SPA01
Session: Winter Day
R. Barta

SPA35S Medieval Prose Literature
Prerequisite: SPA01
Session: Winter Day
R. Barta

Statistics

Staff member responsible for curriculum: M. Evans

Probability and statistics have developed over a
period of several hundred years as attempts to
quantify uncertainty. With its origins in model-
ing games of chance, probability theory has
become a sophisticated mathematical discipline
with applications in such fields as demography,
genetics and physics.

Statistics is concerned with the proper collec-
tion and analysis of data, both to reduce uncer-
tainty and to provide for its assessment via
probability. Applications range from pre-election
polling to the design and analysis of experiments
to determine the relative efficacies of different
vaccines.

STAB52F and STAB57S serve as an introduc-
tion to the discipline. Those courses are part of
the Mathematics Specialist and Major Pro-
grames. The C-Level Courses build upon the
introductory material to provide a deeper
understanding of statistical methodology and of
its practical implementation.

STAB52F Probability and Statistics I
STAB57S Probability and Statistics II
STAC42F Multivariate Analysis
STAC67S Regression Analysis

For further information see under Mathematics.

Courses Not Offered in 1982-83

STAC42F Multivariate Analysis
Corequisite: MATB41
Prerequisite: STAB57 (MATB57)
Women’s Studies

Major Programs in Women’s Studies
Supervisor: S. Namiohashi (284-3175)
The Major Program in Women’s Studies provides an interdisciplinary perspective on women in the past and present in various societies and cultures. It is designed to acquaint students with the critical concepts and methodologies used to examine the role and significance of women within any field of study. Students may complete the program by selecting six women's studies courses, and they should select an emphasis either in the humanities or in the social sciences. In many cases students will be able to combine a major in women's studies with a major in one of the College's disciplines. However, because of the wide range of possibilities for anyone planning a double major, students are strongly urged to consult the Supervisor of Studies early and regularly.

The Major Program in Women’s Studies with an emphasis in the Humanities
(see also note 1 below)
1. Students must select six FCEs as follows:
   1 JHSA01Y Introduction to Women’s Studies.
   2 3 FCEs from List A.
   3 1 FCE from List B.
   4 JHSC01H Senior project in Women’s Studies.

The Major Program in Women’s Studies with an emphasis in Social Sciences
(see also note 1 below)
1. Students must select six FCEs as follows:
   1 JHSA01Y Introduction to Women’s Studies.
   2 3 FCEs from List B.
   3 1 FCE from List A.
   4 JHSC01H Senior project in Women’s Studies.

List A
*ENGC40F Women Poets
*FREB80F/S Images of Women in French Literature
*FREB81F/S Women’s Consciousness in French Literature
*HISB10F/S Women from the Renaissance to the Present
HUMB26Y Women in the Major Religions
HUMB60F/S Women Artists in Society
HUMB61F/S Women in Ancient Greece
HUMB64Y Feminism and Literary Considerations
*UNB28F Language and Sex
PHLB05F/S Social Issues

List B
*ANTB15Y Biological Anthropology
*ANTB20Y Introduction to Social Organization
*ANTB40Y Anthropological Demography
*ANTB54Y Anthropology of Sex
*ANTC11Y Anthropology of Women
*ANTC12F Social Behaviour of Non-Human Primates
*PSYB10F/S Introduction to Social Psychology
*PSYC22S Socialization Process
*SOCB08F Sociology of the Family as a Group
*SOCB09S Sociology of the Family as an Institution
*SOCB10F/S Sex, Self and Society
*SOCB24F/S Changing Family Life in Canada
*SOCB28F/S Sociology of Aging
*SOCB29F/S Variant Family Forms

Prerequisite: Open to students majoring in Women’s Studies, who have already completed 10 FCEs.
Session: Winter Day

The student will write a substantial essay or give a major presentation on an approved topic in Women’s Studies.
The course is designed for students completing the Major Program in Women’s Studies and is normally taken after completion of all full-course equivalents.
Students are advised to design a project in an area in which they have already done some concentrated study, and, where possible, to build upon work taken in previous courses.
Arrangements with the faculty in Women’s Studies and the supervisor must be made by the student before the end of the pre-registration period in the spring.

Note:
1. All courses with an * have a prerequisite. Students should nonetheless check all the courses for prerequisites. In some cases, JHSA01Y may be substituted for another prescribed course. Please see instructor and Supervisor of Studies.

JHSA01Y Introduction to Women’s Studies
Women and their roles and relationships in various societies. Taught by approximately fifteen faculty members representing about eleven disciplines in the Humanities and Social Sciences. The course provides an overview of the problems investigated by specialists in women's studies and teaches how to use the methodologies of a range of disciplines to explore these problems.
Areas for discussion may include women and mythology, women and power, women's roles in the family, and women and literature. Among the particular topics are: the origins of misogyny; sexual stereotyping; poetry and propaganda; and the family - myth and reality. A detailed bibliography will be distributed at the first session.
Lecture and discussion with occasional seminars.
Session: Winter Day
Co-ordinators: S. Namiohashi, L.J. Abay

JHSC01H Senior Project in Women’s Studies
A research project chosen by the student approved by the Supervisor in Women’s Studies, and supervised by one faculty member. After the topic has been approved, a second reader will be appointed.
Key

Explanation of Suffixes, Y, A, B, F and H
'Y' A course taught throughout the session worth one full course credit.
'A' A course taught in the first term and worth one full course credit.
'B' A course taught in the second term and worth one full course credit.
'F' A course taught in the first term and worth one-half course credit.
'S' A course taught in the second term and worth one-half course credit.
'H' A course taught throughout the session and worth one-half course credit.

Explanation of M, T, W, R, F and T, B, A,
M, T, W, R, F - the days of the week with R denoting Thursday.
T, B, A. - denotes that the student is responsible for arranging time and/or room with the instructor for that course.

Explanation of Letters
L - Lectures
P - Practical work in laboratories or studios *(denotes every other week)
T - Tutorials
E - Evening

Explanation of Lecture Section Numbers
01 etc: day sections
30 etc: evening sections

Tying of Sections
Some lecture, practical and tutorial sections must be taken as a 'package'. This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g., P001 and T002 must be taken with L01, and T001 or T002 must be taken with L02 or L03.
The reason for 'tying' sections is that the subject matter may differ from section to section. Many courses are 'united' so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be 0, e.g., P001 or P002 and T001 or T002 may be taken with L01 or L02 or L03.

Rooms
Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.

Summer Session
Courses, 1982

Monday 17th May:
Classes for 'Y', 'A' and 'Y' courses begin

Wednesday 30th June:
Classes for 'A' and 'F' courses end

Monday 5th July:
Classes for 'B' and 'S' courses begin

Friday 20th August:
Classes for 'Y', 'B', 'H' and 'S' courses end

Key: MTWRF: days of the week with R as Thursday
Tutorials may be given in addition to the lecture times given below. They will normally be given on the same night except as noted below.

Course No. & Title

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Special Summer Programmes

Summer Arts Programme

DRA12B Medieval & Early Tudor Drama: The Texts & Their Production MTWR6-9
FAR87S* Intermediate Painting I MTWR1-4
FAR875* Intermediate Painting II MTWR1-4
FAR879A* Introduction to Etching MTWR6-9
FAR885S* Intermediate Etching MTWR9-12

*Enrolment will be limited in these courses owing to limitations in studio space

Scarborough Language Institute

Intensive summer French courses are offered in the second term at all levels.

For further information please refer to Scarborough Language Institute Information Package (available mid-February).

FRA08B Introductory French *TBA
FRA17S Elementary French TBA
FRA16B Elementary French TBA
FRA17S Elementary French TBA
FRA08B Elementary French TBA
FRA08B Workshops in Modern French Theatre TBA
FRA08B Language Practice III TBA
FRA08B Advanced French TBA

Stratford Summer Seminars (non-credit)

For further information please contact Mrs. Lois Pickup, 284-3185

English Writing Skills

To be announced.

Winter Session Evening Courses

ANTB26Y Introduction to Prehistoric Archaeology M7-9
ANTB51Y Medical Anthropology M9E T0021
CLAB01Y Greek and Roman Tragedy T7-9
CLAB23S Christianity in the Greco-Roman World M7-9
COMA01Y Financial Accounting T7-10 L30
COMC01Y Management Accounting W7-10 L31
COMC01S Intermediate Financial Accounting W7-10 L32
COMC15S Management Control Systems M7-9
COMC15Y Income Tax W7-10 L30
COMC50F Advanced Accounting M7-9
COMC55F Current Issues in Accounting W7-10 L31
COMC60F Auditing T7-10
OSCA56F Computer Programming T9-9
DRA835Y The Art and Nature of Comedy M7-9
ECGA01Y Introduction to Economics M7-9
ECOB03Y Price Theory T7-10
ECOB07Y Macroeconomic Theory and Policy W7-10
ECOB11S Quantitative Methods in Economics W7-10
ENGA02Y English Literature: An Historical Survey T7-10
ENGB11Y Varieties of Drama T7-9
ENGB80S Selected Topics in Nineteenth Century Literature W7-9
ENGB81F Selected Topics in Nineteenth Century Literature W7-9
FARA11S Medieval Art T7-9
FARA12F Renaissance and Baroque Art W7-9
FARA70F Two and Three Dimensional Design W7-10
FARA71S Colour T7-10
FARA90Y Foundations in Studio M7-10
FARB04S Art of the 17th Century and Baroque Painting in Southern Europe 1600-1650 M7-9
FARB27F Impressionism T7-9
FARB48F Art from 1900 to 1950 T7-9
FARB47Y Introduction to Painting T7-10
FARB85F Introduction to Lithography T7-10
FARB86Y Language Practice I T7-10
FARB89F Language Practice II T7-10
FARB91S Contemporary French Theatre: The Theatre and the Absurd M7-9
FARB91F French Classicism: The Theatre W7-9
FARB92Y Greek and Roman History from the Death of Alexander to the Gracchi W7-10
HISC04Y Introduction to Canadian History M7-9
HISB06Y Europe in the Middle Ages M7-9
HISB44F Canadian Religious Traditions W7-9
HISC43S Selected Topics in Canadian Religious History W7-9
HUMB06F Women Artists in Society T7-9
HUMB08Y Creative Writing: An Introduction W7-9
JCEC04S Industrial Relations T7-10
JCEC02Y Corporation Finance T7-10
JES02Y Organizational Behaviour T7-10
JLPB05F Psycholinguistics W7-10
LINA04F Introduction to Linguistics T7-10
NSCA02Y Introduction to Natural Science: The Biological Sciences T7-10
PHLAB01Y Fundamental Questions of Philosophy W7-10
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## Telephone Directory: frequently called numbers

<table>
<thead>
<tr>
<th>Department</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Associate Dean</td>
<td>284-3124</td>
</tr>
<tr>
<td>Athletic Association (S.C.A.A.)</td>
<td>284-3395</td>
</tr>
<tr>
<td>Bookstore</td>
<td>284-3251</td>
</tr>
<tr>
<td>Cafeteria</td>
<td>284-3110</td>
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<tr>
<td>Career Counselling and Placement</td>
<td>284-3292</td>
</tr>
<tr>
<td>Cashier's Office</td>
<td>284-3103</td>
</tr>
<tr>
<td>Community Relations Office</td>
<td>284-3243</td>
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<td>Computer Centre</td>
<td>284-3122</td>
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<tr>
<td>Fees Office</td>
<td>284-3116</td>
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<td>Health Service</td>
<td>284-3253</td>
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<td>Library</td>
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<td>Physical Services</td>
<td>284-3203</td>
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<td>Post Office</td>
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<td>Pub</td>
<td>284-3177</td>
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<tr>
<td>Principal's Office</td>
<td>284-3111</td>
</tr>
<tr>
<td>Recreation Centre</td>
<td>284-3392</td>
</tr>
</tbody>
</table>

## Campus Location

![Campus Map]

- **Registrar's Office**
  - Records (Registration, transcripts, etc.): 284-3127
  - Admissions/Liaison Counsellor: 284-3359
- **Timetable, classroom allocation, examinations, etc.**: 284-3300
- **Student Services**
  - Registrar: 284-3286
- **Residence Office**
  - Office: 284-3174
  - Dean of Students in Residence: 284-3210
- **Riding Stables**: 282-5309
- **Security Desk**
  - (including lost and found): 284-3396
- **Student Councils**
  - Scarborough College Student Council (S.S.C.C.): 284-3135
  - U of T S.A.C. desk: 284-3219
- **Student Services Office**: 284-3292
- **Teaching-Learning Unit**: 284-3181
- **Writing Laboratory**: 284-3369

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*Note: Distances are approximate.*

- **Walking Distance**: 31 kilometers
- **Biking Distance**: 24 kilometers

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*3 St. George Campus is 31 kilometers from Scarborough College*