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CALENDAR

1992-1993

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University of Toronto

Scarborough College

Calendar

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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.

vices

Stephen Leacock

1992/93

1265 Military Trail, Scarborough, Ontario, Canada, M1C 1A4 (416) 287-7550

Table of Contents

History of Scarborough College	4
Child care Centre	5
Academic Calendar	6
Officers of the University and Scarborough College	8
Faculty of Scarborough College	9
Programmes of Study and Course Descriptions	15
Co-operative Programmes	53
Language Studies	130
Stratford Summer Seminars	199
General Interest Courses	17
Admissions	200
Awards	206
Academic Regulations	213
Part-time Studies	247
Telephone Directory	250
Index	251

IMPORTANT NOTICES

Changes in Programs of Study

The programs of study that the Calendar lists and describes are available for the years to which the Calendar applies. They may not necessarily be available in later years. If the University or the Faculty (School, College) must change the content of programs of study or withdraw them, all reasonably possible advance notice and alternative instruction will be given. The University, however, will not be liable for any loss, damages, or other expenses that such changes might cause.

Changes in Courses

For each program of study offered by the University through the Faculty (School, College), the courses necessary to complete the minimum requirements of the program will be made available annually. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, prerequisites and corequisites, grading policies, and timetables without prior notice.

Changes in Regulations and Policies

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty (School, College) are displayed here. Applicable University policies are either fully displayed here or listed here.

In applying to the Faculty (School, College) the student assumes certain responsibilities to the University and the Faculty (School, College) and, if admitted and registered, shall be subject to the rules, regulations, and policies cited in the Calendar.

Calendar Limitations

The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the Calendar, and to withdraw courses or sections for which enrolment or resources are insufficient.

Copyright in Course Lectures

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or similar materials provided by instructors, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by physically disabled students, the instructor's consent will not be unreasonably withheld.

Student Number

Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Records, strictly controls access to student numbers. The University assumes and expects that students will protect the confidentiality of their student numbers.

- The University reserves the right to alter the fees and other charges described in the Calendar.
- A separate Calendar is published by the Faculty of Arts and Science and by Erindale College. Students are reminded that Scarborough College is a separate faculty of the University and that rules covering students at Scarborough College may differ from those in the Faculty of Arts and Science.
- It is the responsibility of students to see that their academic programmes meet the College's regulations in all respects.
- 1 0 ACADEMIC OFFENCES ARE A SERIOUS MATTER. See page 239.
- 1 1 The College has a fire safety plan. Copies are available from Physical Plant Services
- 1 2 The College has a No-Smoking Policy.

This is Scarborough College



Scarborough College, a constituent college of the University of Toronto, was established in 1964 to provide for the rapid growth in demand for undergraduate education foreseen for the later 1960's. Since that time it has grown from a modest beginning of ten evening courses in a local high school to a thriving campus where 220 faculty teach more than 700 courses to 5200 students.

The first 191 full-time Scarborough students enrolled in 1965. Classes began on the University's St. George campus that fall and moved to the new Scarborough campus when the first building, made up of the Science and Humanities wings, opened in January, 1966. The building, designed by Toronto architect John Andrews, won immediate international attention for its striking architecture.

1973 saw the opening of both the R-wing which provided much needed additional classroom and office space, as well as a gymnasium and other sports facilities and the Student Village, a complex of townhouse residences with room for 260 students. In 1985 the original Student Village was expanded and in 1990 the West Village which includes some wheelchair-accessible houses opened. A total of 536 students can now be accommodated in residence on the Scarborough Campus.

In 1982, the Vincent W. Bladen Library, named in memory of a former member of the Economics faculty of Scarborough College, was added to the R-wing. The library has more than 200,000 books, as well as thousands of maps and periodicals and a media centre with recordings and fine art slides. The Soil Brosion Research Laboratory opened in 1989 and the N'Sheemaehn child care centre in 1990.

Originally an integrated part of the University's Faculty of Arts and Science, in 1972 Scarborough College became a separate arts and science division of the University of Toronto which allowed it more independence in curriculum development. It was the first college in the University to adopt a credit system allowing both full and part-time students to complete their degrees at a rate of their own choosing. The College offers the only formal co-operative programmes in the University. The programme in Administration was offered for the first time in 1975. Since then co-operative programmes have been added in Arts Administration, in Computer Science and Physical Science and in International Development Studies. The Physical Sciences Specialist programmes have been redesigned and, in cooperation with the Faculty of Education will include an Early Teacher Project component. Successful completion of the Early Teacher Project, together with the required academic standing will guarantee admission, on application to the Faculty of Education, for at least thirty students a year. Other special programmes include Neurosciences, Terrain and Environmental Earth Sciences, the Humanities and Women's Studies. From the beginning faculty research and the training of graduate students have flourished at the College with Scarborough faculty also making an important contribution to the School of Graduate Studies through courses taught both here and on the St. George campus. The well-appointed research laboratories, the high level of technical services, the relatively small size of the College and the diversity of the faculty foster an ideal environment for intellectual pursuits both at the undergraduate and graduate level.

Scarborough students have full and up-to-date resources available on campus, such as the excellent library, laboratory and computer facilities, residences and recreational facilities. They may also, as full members of the University of Toronto, take advantage of the resources of the University as a whole. On the Scarborough Campus, they can take part in or simply enjoy concerts and drama presentations. Many distinguished guests come to the College to give lectures in the Snider series and the prestigious Watts lecture has attracted such notable names as Nobel Prize winner and former Prime Minister Lester Pearson, architect Raymond Moriyama, philosopher and theologian Hans Kung, scientist and television personality David Suzuki, union leader Bob White and Assembly of First Nations chief Georges Erasmus.

"N'Sheemaehn:" The Scarborough Campus Child Care Centre

The name of the University of Toronto's newest child care centre, pronounced N-she-meh, comes from a native folktale in which the song of the chickadee (n'sheemaehn) reminds us to take good care of our little ones.

The centre, licensed for 46 children of students, staff, faculty and neighbourhood families, operates Monday to Friday 7:30 a.m. to 6:00 p.m. It is housed in a brand new building, officially opened October 10, 1990, and has already attracted praise both for its thoughtful design and fine programming and staff.

"N'sheemaehn" is a non-profit centre, managed by a parent/university board of directors. The board has developed a philosophy for the centre which emphasizes the provision of a warm, secure and loving environment for the children which will foster the development of each child's self-esteem, independence and self-control, while encouraging cooperation, consideration and empathy for others.

The centre has arranged for a purchase-of- service agreement with the municipal government to assist low-income families with the fees. As there is a very long wait for these subsidies, interested families are strongly advised to apply well in advance of the time child care will be needed. A child care bursary is available.

For more information about the child care centre or to arrange for a visit, please contact the Director, Ms. Kathleen McElroy at (416) 287-7624.

Academic Calendar/Summer Session 1992

March 15	Last day for new students to apply for admission to the University for the Summer Session for courses beginning in
	May (Y, A, F and H courses).
April 1	Summer Session registration begins.
May 11	Classes for Y, A, F and H courses begin.
May 15	Last day for new students to apply for admission to the
, 10	University for the Summer Session for courses beginning in July (B and S courses.) 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.
May 15	Last day to add Y, A, F or H courses.
May 18	Victoria Day. University closed.
June 5	Last day to withdraw without academic penalty from A or F
	courses.
June 19	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. H and
	Y courses continue to meet.
June 22-June 26	Final examinations in A and F courses on the St. George and
	Erindale campuses.
June 26	Last day of classes in A and F courses at Scarborough College.
	Last day for submission of term assignments in these courses.
	Final examinations, if required, will be held in a class period of
	the last week.
June 29-July 3	Reading Week for H and Y courses.
June 29	Classes for B and S courses begin.
July 1	University closed for Canada Day holiday.
July 6	Last day to add B or S courses.
July 17	Last day to withdraw without academic penalty from Y or H
	courses.
July 24	Last day to withdraw without academic penalty from B or S
	courses.
August 3	Civic holiday. University closed.
August 7	Last day of classes for Y, B, H and S courses on the St. George and Erindale campuses.
August 10-August 14	Final examinations in Y, B, H and S courses on the St. George and Erindale campuses.
August 14	Last day of classes in Scarborough College courses. Last day for submission of term assignments. Final examinations, if
Apparet 21	required, will be held in a class period of the last week.
August 31	Last day to request conferment of degree at the Fall

Convocation.

Academic Calendar/Winter Session 1992/93

1992

March 16	Winter Session registration begins.
June 1	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.
June 15	Course changes for students who registered early and course selection for other students begin.
September 7	Labour Day. University closed.
September 14	Classes for Y, A, F and H courses begin.
September 25	Last day to add Y, A, F or H courses.
October 12	Thanksgiving Day. University closed.

November 6 Last day to withdraw without academic penalty from F or A

courses.

November 16 Christmas Examination Schedule published.

December 11 Last day of classes in the first term. Last day for submission of

term assignments in F and A courses.

December 14-December 23 Term test and final examination period.

1993

January 4	Classes for B and S courses begin.
January 15	Last day to add B or S courses.
February 12	Last day to withdraw without academic penalty from Y or H courses.
February 15	Last day to request conferment of degree at the June Convocation.
February 15-February 19 February 26	Reading Week - no classes held. Last day to withdraw without academic penalty from B or S

courses.

March 15 Annual Examination Schedule published.

April 8 Last day of classes; no tests or examinations may be held until

the beginning of the examination period. Last day for submission of term assignments for Y, H, B or S courses.

April 9 Good Friday. University closed.
April 19-May 7 Final examination period.

June 7 University Spring Convocations are likely to begin.

Officers of the University of **Toronto 1992/93**

Chancellor R. Wolfe, B.A.

Chairman, Governing Council R.J. McGavin, B.P.E., M.Sc., Ph.D.

President J.R.S. Prichard, M.B.A., LL.B., LL.M.

Vice-President and Provost J.E. Foley, B.A., Ph.D.

Vice-President, Business Affairs and Chief Administrative Officer B.P. Davies, B.Com, M.P.A.

Vice-President, Computing and Communications C.D. Sadleir, B.A.Sc., M.A.Sc., Ph.D., P.Eng.

Vice-President, Department of Development and University Relations G.C. Cressy, B.Sc., M.S.W.

Vice-President, Human Resources M.G. Finlayson, B.A., M.A., Ph.D.

Vice-President, Research J.F. Keffer, B.A.Sc., M.A.Sc., Ph.D., P.Eng.

Vice-Provost A.H. Melcher, M.D.S., H.D.D., Ph.D., D.Sc.

Vice-Provost, Health Sciences A.R. Ten Cate, B.Sc., Ph.D., B.D.S.

Vice-Provost, Staff Functions D.B. Cook, B.A., M.A., Ph.D.

Assistant Vice-President, Finance R.G. White, C.M.A.

Asst. Vice-President, Operations/Services J. Oliver, B.Com., M.Sc.

Assistant Vice-President (Planning) and University Registrar D.W. Lang, B.A., M.A., Ph.D.

Assistant Vice-President, Research Relations & Technology Transfer P. Munsche, B.A., M.A., Ph.D.

Assistant Vice-President, Student Affairs W.D. Neelands, B.A., M.A., M.Div., Th.D.

Secretary of the Governing Council J.G. Dimond. B.A., M.A., Ph.D.

Officers of Scarborough College 1992/93

Principal and Dean R.P. Thompson, M.A., Ph.D.

Vice-Principal and Associate Dean M.E. Irwin, M.A., Ph.D.

Chair, Division of Humanities J. Warden, M.A.

Chair, Division of Life Sciences J.W. Gurd, B.A., Ph.D.

Chair, Division of Management and Economics S. Borins, B.A., M.P.P., Ph.D.

Chair, Division of Physical Sciences J.M. Perz, B.A.Sc., M.A.Sc., Ph.D.

Chair, Division of Social Sciences E. Relph, B.A., M.Phil., Ph.D.

Registrar D.J. Perry, B.S.B.A.

Dean of Students in Residence G.P. Nagel, B.A., M.A., Ph.D.

Librarian M. Miller, B.A. (Hon), M.L.S.

Director of Co-operative Programmes H. Wittmann, M.A., Ph.D.

Director of Administration, P.S. Phillips, B.A., C.A.

Faculty of Scarborough College

Division of Humanities

Classics

- J. Warden, M.A. (Cantab.), Professor and
- 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
- I.R. McDonald, B.A. (Alberta) Ph.D. (N. Carolina), Associate Professor
- W. Helleman, M.A. (Toronto), Ph.D. (Free University, Amsterdam), Assistant Professor

Cognitive Science

- R.I. Binnick, M.A., Ph.D. (Chicago), Professor
- J.M. Kennedy, B.Sc., M.Sc. (Belf.), PH.D. (Cornell), Professor
- C.M. MacLeod, B.A. (McGill), Ph.D. (Washington), Professor
- M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor
- A. Kukla, A.B., M.A., Ph.D. (UCLA), Associate Professor
- W.E. Seager, M.A. (Alberta), Ph.D. (Toronto), Associate Professor
- M.A. Schmuckler, B.A. (Suny-Binghampton), Ph.D. (Cornell), Assistant Professor
- S. Sedivy, B.A. (Toronto), Ph.D. (Pittsburgh), Assistant Professor
- R. Smyth, B.A. (Carleton), M.Sc., Ph.D. (Alberta), Assistant Professor

Drama

- M.Q. Schonberg, M.A., Ph.D. (Toronto), Associate Professor
- K. Theil, M.A., Ph.D. (Yale), Associate Professor
- P. Sperdakos, M.A., Ph.D. (Toronto), Assistant Professor
- H. Ohlendorf, A.M., Ph.D. (Stanford), Associate Professor

English

- J.M.R. Margeson, M.A., Ph.D. (Toronto), Professor Emeritus
- R.M. Brown, M.A., Ph.D. (New York), Professor
- W.J. Howard, M.A., S.T.B. (Toronto), Ph.D. (Leeds), Professor
- M.C. Cuddy-Keane, M.A., Ph.D. (Toronto) Associate Professor

- J. Kay, M.A. (Glasgow), M.A., Ph.D. (Pennsylvania), Associate Professor
- A.J.G. Patenall, M.A. (McGill), Ph.D. (Birmingham), Associate Professor M.S. Tait, M.A., Ph.D. (Toronto),
- Associate Professor K. Theil, M.A., Ph.D. (Yale), Associate Professor
- A.C. Thomas, M.A., Ph.D. (Toronto), Associate Professor
- E.P. Vicari, M.A., Ph.D. (Toronto), Associate Professor
- M. Gadpaille, M.A. (Western Ontario), Ph.D. (Toronto), Assistant Professor
- G. Leonard, M.A. (Florida), Ph.D. (Florida), Assistant Professor
- J. Matus, M.A. (Columbia), Ph.D. (Toronto), Assistant Professor

Fine Art

- M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), Professor
- G. Scavizzi, M.A., Ph.D. (Turin), Professor M.C. Shaw, M.A., Ph.D. (Bryn Mawr), Professor
- R. Siebelhoff, M.A., Ph.D. (Toronto), Associate Professor
- L. Carney, M.A. (Columbia), Assistant Professor
- L. Varga-Gervers, M.A., Ph.D. (Budapest), Assistant Professor
- A. Brannen, M.A. (New Mexico), B.F.A. (York, Canada), Senior Tutor
- D. Holman, B.F.A. (Kansas City Art Inst.), Senior Tutor
- J. Hoogstraten, B.F.A. (Manitoba), Senior Tutor

French

- G.F.R. Trembley, L.és L. (Montpellier), Ph.D. (Yale), Professor Emeritus
- C. Bertrand-Jennings, L.és L. (Paris), Ph.D. (Wayne State), Professor
- L.E. Doucette, B.A. (London), Ph.D. (Brown), Professor
- W.J. Bancroft, M.A. (Manitoba), Ph.D. (Harvard), Associate Professor
- J.A. Curtis, M.A., M.Phil. (Toronto), Associate Professor
- W.J. Kirkness, M.A. (Auckland), Ph.D. (de Besançon), Associate Professor
- L.B. Mignault, B.A. (Toledo), Ph.D. (Colorado), Associate Professor
- S. Mittler, M.A. (Toronto), Ph.D. (Strasburg), Associate Professor
- C. Evans, M.A. (Rochester), Ph.D. (Toronto), Senior Tutor
- F. Mugnier-Manfredi, M.A. (Lyon), Ph.D. (Grenoble), Senior Tutor

German

- H. Wittmann, M.A., Ph.D. (Mass.), Professor
- H. Ohlendorf, A.M., Ph.D. (Stanford), Associate Professor
- U. Lesser-Sherman, M.A., Ph.D. (Pennsylvania), Senior Tutor

History

- J.S. Moir, M.A., Ph.D. (Toronto), D.D. (Presb. College, Montreal), Professor Emeritus
- M. Eksteins, B.A. (Toronto), B.Phil., D.Phil. (Oxon.), Professor
- M. Gervers, M.A. (Poitiers), Ph.D. (Toronto), Professor
- L.J. Abray, M.A. (McMaster) M.Phil., Ph.D. (Yale), Associate Professor
- W.M. Dick, M.A. (Edinburgh), Ph.D. (Toronto), Associate Professor
- E.W. Dowler, A.M. (Harvard), Ph.D. (London School of Economics), Associate Professor
- J.L. Pearl, M.A., Ph.D. (Northwestern), Associate Professor
- I.R. Robertson, M.A. (McGill), Ph.D. (Toronto), Associate Professor
- A.N. Sheps, M.A., Ph.D. (Toronto), Associate Professor
- F. Iacovetta, M.A., Ph.D. (York, Canada), Assistant Professor

Humanities

- R.I. Binnick, M.A., Ph.D. (Chicago), Professor
- W.C. Graham, M.A., Ph.D. (Toronto), Professor
- P.R. León, M.A., Ph.D. (Cornell), Professor
- C.V. Ponomareff, M.A., Ph.D. (Toronto), Professor
- R. Skyrme, B.A., M.Litt. (Bristol), M.A., Ph.D., (Michigan) Professor
- J. Warden, M.A. (Cantab.), Professor and Chair
- H. Wittmann, M.A., Ph.D., (Mass.) Professor
- W.J. Bancroft, M.A. (Manitoba), Ph.D. (Harvard), Associate Professor
- H. Ohlendorf, A.M., Ph.D (Stanford), Associate Professor
- M.Q. Schonberg, M.A., Ph.D. (Toronto), Associate Professor
- P.D. Gooch, M.A., Ph.D. (Toronto), Assistant Professor
- C. Evans M.A. (Rochester), Ph.D. (Toronto), Senior Tutor

Italian

A. Franceschetti, Dott. in Lett. (Padua), Ph.D. (Columbia), Professor

- D. McAuliffe, A.B. (St. Peter's, New Jersey), Ph.D. (New York), Associate Professor
- J.A. Čampana, B.A., M.A., Ph.D. (Toronto), Senior Tutor

Linguistics

- R.I. Binnick, M.A., Ph.D. (Chicago), Professor
- D.M. James, M.A. (Cornell), Ph.D. (Michigan), Associate Professor
- J.D. Woods, B.A. (Bowdoin Col.), Ph.D. (Mass.), Associate Professor
- R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Assistant Professor

Music

- J. Mayo, G.T.C.L. (Trin. Coll. London) M.A., Ph.D. (Toronto), Assistant Professor
- W. Bowen, B.A., B.A.Mus. (Carleton), M.A., Ph.D. (Toronto), Assistant Professor

Philosophy

- P.W. Gooch, M.A., Ph.D. (Toronto), Professor
- W.C. Graham, M.A., Ph.D. (Toronto), Professor
- J.H. Sobel, M.A. (Iowa State), Ph.D. (Michigan), Professor
- R.P. Thompson, M.A., Ph.D. (Toronto), Professor
- D.B. Cook, M.A., Ph.D. (Toronto), Associate Professor
- G.P. Nagel, B.A., M.A. (Simon Fraser), Ph.D. (Cantab.), Associate Professor
- W.E. Seager, M.A. (Alberta), Ph.D. (Toronto), Associate Professor
- L. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Assistant Professor
- S. Sedivy, B.A. (Toronto), Ph.D. (Pittsburgh), Assistant Professor
- W.F. Freeman-Sobel, B.S., B.A. (Rice), Lecturer

- P.R. León, M.A., Ph.D. (Cornell), Professor
- R. Skyrme, B.A., M.Litt. (Bristol), M.A., Ph.D. (Michigan), Professor
- K. Gödde, B.A. (McGill), M.A. (N.Y.), Ph.D. (Toronto), Senior Tutor

Women's Studies

- C. Bertrand-Jennings, L.és L. (Paris), Ph.D. (Wayne State), Professor (French)
- R.P. Thompson, M.A., Ph.D. (Toronto), Professor (Philosophy)
- L.J. Abray, M.A. (McMaster), M.Phil., Ph.D. (Yale), Associate Professor (History)

- J. Boddy, M.A. (Calgary), Ph.D. (UBC), Associate Professor (Anthropology)
- M.C. Cuddy-Keane, M.A., Ph.D. (Toronto), Associate Professor (English)
- M.E. Irwin, M.A., Ph.D. (Toronto), Associate Professor (Classics)
- D.M. James, M.A. (Cornell), Ph.D. (Michigan), Associate Professor (Linguistics)
- M. Latta, M.A., Ph.D. (Toronto), Associate Professor (Anthropology)
- L. Carney, M.A. (Columbia), Assistant Professor (Fine Art History)
- K. England, B.A., P.G.C.E. (Leicester), M.A., Ph.D. (Ohio), Assistant Professor (Geography)
- M. Gadpaille, M.A. (Western Ontario), Ph.D. (Toronto), Assistant Professor (English)
- F. Iacovetta, M.A., Ph.D. (York, Canada), Assistant Professor (History)
- L. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Assistant Professor (Philosophy)
- J. Matus, M.A. (Columbia), Ph.D. (Toronto), Assistant Professor (English)
- A. Sev'er, B.A., M.A. (Windsor), Ph.D. (York, Canada), Assistant Professor (Sociology)
- A. Brannen, M.A. (New Mexico), B.F.A. (York, Canada), Senior Tutor (Fine Art
- J. Hoogstraten, B.F.A. (Manitoba), Senior Tutor (Fine Art Studio)

Division of Life Sciences

Biology

- J.C. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), F.R.S.C., Professor Emeritus
- F.A. Urquhart, B.A., M.A., Ph.D. (Toronto), Professor Emeritus
- R. Boonstra, B.Sc. (Calgary), Ph.D. (B.C.), Professor
- I.R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
- C.K. Govind, B.Sc. (Rhodes), M.Sc. (Natal), Ph.D. (Manitoba), Professor
- J. W. Gurd, B.A. (Mnt.All.), Ph.D. (McGill), Professor
- C. Nalewajko, B.Sc., Ph.D., D.Sc., (Univ. College London), Professor
- J.C. Silver, B.Sc., Ph.D. (CUNY), Professor A.H. Weatherley, B.Sc. (Sydney), M.Sc. (Tas), Ph.D. (Glas), Professor
- D.D. Williams, B.Sc. (Univ. Coll. N. Wales), Dip.Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor
- G.R. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), F.R.S.C., Professor

- J.H. Youson, B.A. (Victoria), M.Sc. (McGill), Ph.D. (Western), Professor R.E. Dengler, B.Sc., Ph.D., (UCD), Associate Professor
- M.F. Filosa, B.S. (St. Peter's), M.S. (Fordham), Ph.D. (Princeton), Associate Professor
- G.F. Israelstam, B.Sc. (Witwatersrand), Ph.D. (Univ. College London), Associate Professor
- J. M. Eadie, B.Sc.(Western), M.Sc. (Queen's), Ph.D. (B.C.), Assistant Professor
- C. A. Hasenkampf, B.S. (Loyola), M.Sc., Ph.D. (Florida State), Assistant Professor
- K. M. Martin, B.Sc. (U. of P.E.I., Charlottetown), M.Sc. (Alberta), Ph.D. (Queen's), Assistant Professor, NSERC University Research Fellow
- C. D. Riggs, B.Sc. (North Carolina), Ph.D. (Florida State), Assistant Professor
- N. E. Williams, B.Sc. (Guelph), M.Sc. (Waterloo), Ph.D. (Toronto) Assistant Professor
- C. Pickett, B.Sc., M.A. (Toronto), Senior Tutor

Psychology

- G.B. Biederman, B.Sc. (CUNY), Ph.D. (NYU), Professor
- G.C. Cupchik, B.A. (Mich.), M.A., Ph.D. (Wisc.), Professor
- K.K. Dion, B.A. (Wellesley), Ph.D. (Minn.), Professor
- J.E. Foley, B.A., Ph.D. (Syd.), Professor
- B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), Professor
- J.M. Kennedy, B.Sc., M.Sc. (Belf.), Ph.D. (Cornell), Professor C.M. MacLeod, B.A. (McGill), Ph.D.
- (Washington), Professor
- N.W. Milgram, B.A. (U.Cal.), M.A., Ph.D. (McGill), Professor
- T.L. Petit, B.S., M.A. (Louisiana), Ph.D. (Florida), Professor
- M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor J. Bassili, B.A. (McGill), Ph.D. (Cornell),
- Associate Professor G.O. Ivy, B.A. (Drew), Ph.D. (Irvine),
- Associate Professor F. Klajner, B.Sc. (McGill), M.A. (Toronto), Ph.D. (Toronto), M.D.
- (Toronto), Associate Professor A. Kukla, A.B., M.A., Ph.D. (UCLA), Associate Professor
- J. R. Mendelson, B.Sc. (Toronto), Ph.D. (Dalhousie), Assistant Professor
- M.A. Schmuckler, B.A. (Suny-Binghampton), Ph.D. (Cornell), Assistant Professor

S. B. Zeitlin, B.S. (UCLA), M.S. (CSULA), Ph.D. (UHS/CMS), Assistant Professor D. A. Bors, B.A. (Florida), M.A. (Regina), Ph.D. (Toronto) Senior Tutor G.A.J. Heighington, B.A. (Toronto), B. of

Division of Management and Economics

Economics

Ed., Senior Tutor

L. Tarshis, B.A., M.A., Ph.D. (Cambridge), Professor Emeritus

A. Berry, B.A. (Western), Ph.D. (Princeton), Professor

D.È. Campbell, B.A. (Queen's), Ph.D. (Princeton), Professor

J. Cohen, B.A. (Columbia), M.A., Ph.D. (California), Professor

S. K. Howson, B.A., M.Sc. (London), M.A., Ph.D. (Cambridge), Professor M. Krashinsky, S.B. (M.I.T.), M. Phil., Ph.D. (Yale), Professor

S. Horton, B.A., M.A. (Cambridge), Ph.D. (Harvard), Associate Professor

W. Milne, B.A. (Victoria, B.C.), M.A. (Toronto), Ph.D. (Penn.), Associate

I.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), Associate Professor

M. Baker, B.Comm. (Toronto), M.A. (York, Canada), Ph.D. (Michigan), Assistant Professor

K. McKenzie, B.Comm. (Saskatchewan), M.A. (Calgary), Ph.D. (Queen's), Assistant Professor

J. Tenjo, B.A. (Un. Nacional de Columbia), M.A. (Brown), M.A., Ph.D. (Toronto), Assistant Professor

D. Trefler, B.A. (Toronto), M.A. (Cambridge), Ph.D. (Un. of California, L.A.), Assistant Professor

Management

O. Berman, B.A., S.M. (Tel Aviv University), Ph.D. (M.I.T.), Professor S. Borins, B.A. (Harvard), M.P.P. (Kennedy

School of Gov't.), Ph.D (Harvard), Professor

G. Hunt, B.Sc. (Trent), M.Ed (Toronto), Ph.D (Bath), Assistant Professor

J. Rumsey, B.A. (California, Berkely), M.Sc. (Victoria), B.Ed. (Toronto), M.B.A., Ph.D. (York, Canada), Assistant

A. Stawinoga, B.A. (Toronto), M.B.A. (York, Canada), C.M.A., Assistant Professor

T. Litovitz, B. Comm. (Toronto), C.A., M.B.A. (York, Canada), Senior Tutor

Division of Physical Sciences

Astronomy

R.G. Carlberg, B.Sc., (Saskatchewan), M.Sc., Ph.D. (U.B.C.), Professor C. Dyer, B.Sc., M.Sc., Ph.D., Professor P.P. Kronberg, B.Sc., M.Sc., (Queens), Ph.D. (Manchester), Professor

Chemistry

A.J. Kresge, B.A. (Cornell), Ph.D. (Illinois), F.R.S.C., Professor Emeritus R.A. McClelland, B.Sc., Ph.D., Professor R. Morris, B.Sc. (Waterloo), Ph.D. (U.B.C.), Professor

T.T. Tidwell, B.S. (Georgia Inst. Tech.), Ph.D. (Harvard), Professor

A. Walker, B.Sc., Ph.D. (Nottingham), Professor

S. Fraser, B.A. (Oxford), Ph.D (Cambridge), Associate Professor

D.J. Donaldson, B.Sc. (Carleton), Ph.D (Carleton), Assistant Professor

K. Henderson, B.Sc., M.Eng., Senior Tutor J. Potter, B.Sc. (Birmingham), M.Sc. (Windsor), Senior Tutor

A. Verner, M.Sc., M.Eng., Senior Tutor W. Restivo, B.Sc., Senior Tutor

L. Teo B.Sc., B.Ed., (Singapore), Senior Tutor

N.E. Mitchell, B.Sc. (Guelph), Tutor

Computer Science

C. Dyer, B.Sc., M.Sc., Ph.D., Professor W.H. Enright, B.Sc. (British Columbia), M.Sc., Ph.D., Professor

J. von zur Gathen, Ph.D. (Zurich), Professor A. Mendelzon, B.S., M.S.E., M.A., Ph.D., (Princeton), Professor

V. Hadzilacos, B.A. (Princeton), Ph.D. (Harvard), Associate Professor

G. Hirst, B.A., B.Sc., M.Sc. (Anu, U.B.C.), Ph.D. (Brown U.), Associate Professor G.J. Cupit, B.Sc. (U.B.C.), Senior Tutor

P. Lumby, B.Sc. (McGill), M.Sc. (London) Tutor

N. Cheng, B.Sc., Tutor

N. Eyles, B.Sc. (Leicester), M.Sc. (NFLD), Ph.D. (East Anglia), D.Sc. (Leicester), Professor

J.A. Westgate, B.Sc. (Reading), Ph.D. (Alberta), Professor

K.W.F. Howard, B.Sc., M.Sc. Ph.D. (Birmingham), Associate Professor

A. Mohajer, B.Sc. (Tehran), Ph.D (London), Adjunct Associate Professor

G.L. Moltyaner, M.Sc., Ph.D. (USSR), Adjunct Professor

R.T. Pybus, B.Sc. (Brock), Special Lecturer

Mathematics

E.W. Ellers, Ph.D. (Hamburg), Professor J. Friedlander, B.Sc., M.A. (Waterloo), Ph.D. (Penn. State), F.R.S.C., Professor S. Halperin, B.Sc., M.Sc., Ph.D. (Cornell),

F.R.S.C., Professor

E. Mendelsohn, B.Sc., M.Sc. (Manitoba), Ph.D. (McGill), Professor

P. Selick, B.Sc., M.Sc., Ph.D. (Princeton), Professor

R.W. Sharpe, M.Sc., Ph.D. (Yale), Professor

J.B. Wilker, B.Sc., M.A. (British Columbia), Ph.D., Professor

R.O. Buchweitz, Ph.D. (Hanover), Associate Professor

J. Scherk, D.Phil., (Oxford), Associate Professor

J.C. Harris, M.S., Ph.D. (Chicago), Assistant Professor

S. Chawla, B.A. (Delhi), M.Sc. (McMaster), Senior Tutor

D. Hall, B.Sc., Senior Tutor

M. Horrigan, B.Sc., M.A., M.Sc., Senior

E. Moore, M.A. (Memorial), Ph.D., Senior

H.S. Rosenthal, B.Sc. (C.U.N.Y.), Senior Tutor

N. Shalaby, M.A. (York), Tutor

S. C. Tryphonas, M.Sc., Tutor

Physics

H.C. Corben, M.A., M.Sc. (Melbourne) Ph.D. (Cantab), Professor Emeritus

E. Fawcett, M.A., Ph.D. (Cantab), Professor A. Griffin, M.Sc. (British Columbia), Ph.D. (Cornell), Professor

A. Jacobs, B.A.Sc., B.Sc. (Waterloo), Ph.D. (Illinois), Professor

J.D. King, B.A., Ph.D. (Saskatchewan), Professor

M.J.G. Lee, M.A., Ph.D. (Cantab), Professor

P.J. O'Donnell, B.Sc., Ph.D. (Glasgow), Professor

J.M. Perz, B.A.Sc., M.A.Sc. (Toronto), Ph.D. (Cantab), Professor

S. Quick, M.Sc., Ph.D. (Windsor), Senior Tutor

G. Lorincz, B.Sc., M.Sc. (Toronto), Tutor

Statistics

M. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D., Professor

S. Chawla, B.A. (Delhi), M.Sc. (McMaster), Senior Tutor

Division of Social Sciences

Anthropology

T.F.S. McFeat, B.A. (McGill), M.A., Ph.D.(Harvard), FRSC, Professor

F. D. Burton, B.Sc., M.A. (NYU), Ph.D. (CUNY), Professor

M. Lambek, B.A. (McGill), M.A., Ph.D. (Michigan), Professor

J. Boddy, B.A. (McGill), M.A. (Calgary), Ph.D. (UBC), Associate Professor

M. Latta, B.A. (Kansas), M.A., Ph.D. (Toronto), Associate Professor

L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor

H.B. Schroeder, B.A. (Penn. State), Ph.D. (Columbia), Associate Professor

R.W. Shirley, M.A. (Stanford), Ph.D. (Columbia), Associate Professor

G.S. Gillison, B.A. (McGill), Ph.D. (CUNY), Assistant Professor

Geography

R.B. Bryan, B.A. (Dublin), Ph.D. (Sheffield), Professor

B. Greenwood, B.Sc., Ph.D. (Bristol), Professor

J.R. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc., Ph.D. (Toronto), Professor

E. Relph, B.A., M. Phil. (London), Ph.D. (Toronto), Professor

M.F. Bunce, B.A., Ph.D. (Sheffield), Associate Professor

A.G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor

K. England, B.A. (Leicester), M.A., Ph.D. (Ohio State), Assistant Professor

Political Science

S.J. Colman, M.A. (Oxon.), Professor Emeritus

E.G. Andrew, B.A. (British Columbia), Ph.D. (London), Professor

R. Manzer, B.Ed. (New Brun.), M.A. (Oxon.), Ph.D. (Harvard), Professor

G. Skogstad, B.A., M.A. (Alberta), Ph.D. (British Columbia), Professor

S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor

R.S. Blair, M.A. (Glasgow), M.A. (Toronto), Associate Professor

D.B. Cook, M.A., Ph.D. (Toronto), Associate Professor

J. Esberey, B.Ed., B.A. (West. Australia), B.Sc. (London), M.A., Ph.D. (Toronto), Associate Professor

A. Rubinoff, A.B. (Allegheny), M.A., Ph.D. (Chicago), Associate Professor

J. Teichman, B.A., M.A., Ph.D. (Toronto), Associate Professor

D. Welch, B.A. (Toronto), A.M., Ph.D. (Harvard), Assistant Professor

Sociology

R.L. James, M.A. (Wayne State) Ph.D. (Oregon), Professor Emeritus

W.W. Isajiw, B.A. (LaSalle), M.A., Ph.D. (Catholic Univ. of America), Professor

R. O'Toole, B.A. (Leeds), PGCE (London), M.A. (McMaster), Ph.D. (Toronto) Professor

J-L. de Lannoy, Sc. Soc. (Louvain), Ph.D. (California), Associate Professor

M. Hammond, B.A. (California), M.A., Ph.D. (Toronto), Associate Professor

J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Associate Professor

J.A. Lee, B.A., M.A. (Toronto), Ph.D. (Sussex), Associate Professor

S. Ungar, B.A. (McGill), M.A., Ph.D. (York, Canada), Associate Professor

J. Tanner, B.Sc. (Hons.) (University of London) PGCE (Leicester), M.A., Ph.D. (University of Alberta) Associate Professor

A. Sev'er, B.A., M.A. (Windsor), Ph.D. (York, Canada), Assistant Professor

Vincent W. Bladen Library

Librarians J.L. Ball, M.A., Dip. Lib., A.L.A. J. Crichton, B.A., M.L.S. A. Gregorovich, B.A., B.L.S. L. Le, B.A., M.L.S. M. Miller, B.A. Hon., M.L.S. M. Wiederkehr, Dip. Trad., M.L.S. P.H. Yamamoto, B.A., M.S.C. in L.S.

Programmes of Study and Course Description

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

Specialist Programmes - Type of Degree

Anthropology* - B.A./B.Sc.

Arts - B.A.

Astronomy, Physics & Mathematics - B.Sc.

Biological Sciences - B.Sc.

Chemistry - B.Sc.

Chemistry & Biochemistry - B.Sc.

Cell and Molecular Biology - B.Sc.

Cognitive Science - B.Sc.

Computer Science - B.Sc.

Computer Science & Mathematics - B.Sc.

Computer Science & Physics. - B.Sc.

Computer Science & Statistics - B.Sc.

Computer Science for Data Management -B.Sc.

Drama - B.A.

Ecology & Environmental Studies - B.Sc.

Economics - B.A.

Economics & History - B.A.

Economics & Mathematics - B.A.

Economics & Political Science - B.A.

Economics & Quantitative Methods - B.A.

English* - B.A.

Environmental Chemistry - B.Sc.

Fine Art History - B.A.

Fine Art Studio - B.A.

French - B.A.

Geography - B.A./B.Sc.

History* - B.A.

Linguistics - B.A.

Management - B.A.

Management & Economic Theory - B.A.

Management & Economics - B.A.

Management & Language - B.A.

Mathematics - B.Sc.

Mathematics & Statistics - B.Sc.

Modern Languages - B.A.

Neuroscience - B.Sc.

Philosophy* - B.A.

Physical Sciences - B.Sc. Political Science - B.A. Psychology* - B.A./B.Sc. Sociology* - B.A. Terrain and Environmental Earth Sciences -

B.Sc.

Major Programmes - Type of Degree

Anthropology* - B.A./B.Sc. Astronomy & Physics - B.Sc.

Biochemistry - B.Sc.

Biological Sciences - B.Sc.

Chemistry - B.Sc.

Classical Studies - B.A.

Cognitive Science - B.Sc.

Drama - B.A.

Economics* - B.A.

English* - B.A.

Fine Art History - B.A.

Fine Art Studio - B.A.

French Language - B.A.

French Language & Literature - B.A.

Geography - B.A./B.Sc.

German Language - B.A.

History* - B.A.

International Development Studies -

B.A./B.Sc.

Italian Language - B.A.

Linguistics - B.A.

Mathematical Sciences - B.Sc.

Music History & Literature - B.A.

Neuroscience - B.Sc.

Philosophy* - B.A.

Political Science* - B.A.

Psychology* - B.A./B.Sc.

Sociology* - B.A.

Spanish Language - B.A.

Women's Studies - B.A.

College Programmes - Type of Degree

Humanities - B.A.

Co-operative Programmes - Type of Degree

Administration - B.A.

Arts Administration - B.A.

International Development Studies -

B.A./B.Sc.

Computer Science & Physical Science -B.Sc.

Co-operative Programmes are work-study Programmes which are designed to integrate related, practical experience with regular university studies. All Co-operative Programmes are Specialist Programmes and may be taken only as part of a four-year

degree. Most Co-operative Programmes, however, will require up to five years to complete because of the time required for the work placements.

Minor Programmes

Classical Studies Modern Greek

French

Linguistics Music History

Spanish

Women's Studies

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

General Interest Courses

The following is a list of courses which are of a general interest nature and are designed to appeal to all students within the College. Please consult the discipline entry in the Calendar for course descriptions.

ASTB03S	Great Moments in Astronomy
BIOB01Y	Introduction to Biologica
NIOD14E	Sciences
BIOB14F	Environmental Biology
BIOC70F	Theoretical Foundations
DIO 0516	Biology I
BIOC71S	Theoretical Foundations
OT 4 4 0 1 W	Biology II
CLAA01Y CLAA02Y	Classical Civilization
CLAAUZI	Greek and Roman
CSCA06S	Mythology Computer Pagings
CSCAVOS	Computer Basics: Fundamental Concepts an
	Terminology
ENGA11Y	Reading Literature: The
DINGALLI	20th Century
ENGB08Y	American Literature: An
DIGBOOL	Introduction
ENGB10Y	Shakespeare
ENGB11Y	Varieties of Drama
ENGB14Y	Varieties of Fiction
ENGB25F/S	The Canadian Short Story
ENGB34F/S	The Short Story
ENGB50Y	Women and Literary Study
FARA91F/S	But Why Is It Art?
FARB49Y	Twentieth Century Art
FREB82F/S	Women and Literature in
0 E D 0 4 E 40	France
GERC01F/S	The Last Hundred Years
GLGA03S	Geological Hazards
GRKB23F/S	Modern Greek Music
HISA02F/S	The Twentieth Century World
HUMA03Y	Prologue II
HUMB02Y	Introduction to Literature
ITAC71S	Italian Cinema
MGTA02Y	Introduction to
	Management
MUSA11F/S	Listening to Music Music of the World's
MUSA12F/S	
MITTER	Peoples
MUSB14S	Jazz Sacial Januar
PHLB05F/S	Social Issues
PHYA02Y SPAB15S	Concepts of Physics The Civilization of
31 WD133	
	Spain II

Anthropology

Discipline Representative: J. Boddy (287-7281)

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

Because of the vastness of its subject matter. Anthropology is traditionally divided into four sub-fields: Social-Cultural Anthropology, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three areas. Students interested in inquiring about appropriate course sequences in one of the sub-fields are invited to consult with one of the faculty in the appropriate sub-field and with the Supervisor of Studies.

Specialist Programme in Anthropology

Supervisor: L. Sawchuk (287-7347) The Specialist Programme in Anthropology is intended to provide the professionallyoriented 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 fullcourse equivalents in disciplines other than

Anthropology within the four-year degree programme. The courses within the Programme are to be selected as follows:

1 ANTAOLY Introduction to Anthropology

2 Two courses from among the following: ANTB15Y Biological Anthropology ANTB20Y Social and Cultural Anthropology ANTB26Y Introduction to Prehistoric

Archaeology 3 Six full-course equivalents from the

remaining B,C or D-level courses in Anthropology.

4 One full-course equivalent in a field methods or supervised reading and research course

ANTC03F ANTC04S ANTC12H ANTC60S ANTD31F ANTD32S

5 At least 2 full-course equivalents in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor.

Major Programme in Anthropology

Supervisor: L. Sawchuk (287-7347) The Major Programme in Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest by taking advantage of Anthropology's unique global, chronological and biological perspective on humankind.

The Programme requires completion of six full- course equivalents in

Anthropology including: 1 ANTA01Y Introduction to Anthropology

2 One course from among the following: ANTB15Y Biological Anthropology ANTB20Y Social and Cultural Anthropology

ANTB26Y Introduction to Prehistoric Archaeology

3 Four additional full-course equivalents from B, C, or D-level courses in Anthropology, of which at least one must be at the C or D level.

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.

ANIA01Y Introduction to Anthropology

Telephone ID #: 00710163 An introduction to the fields of anthropology through which the student will obtain the anthropological view of the nature and diversity of humans. The first term deals with Physical Anthropology and Prehistoric Archaeology, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term concerns the nature of language and the comparative aspects of Cultural Anthropology, through a study of social groups as well as economic, political and religious systems in both non-industrial and industrial societies. Lectures and tutorials. Exclusion: ANT100

TBA

Session: Winter Day, Summer Evening

ANIB03F The Americas: An Anthropological Perspective

Telephone ID #: 00720333 The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact. Special emphasis will be placed on social dynamics and focus on Latin America.

R. Shirley Winter Day

ANIB04Y Introduction to Archaeological Materials

Telephone ID#: 00720463 An introduction to the study of prehistoric and historic archaeological materials including ceramics, lithics, metal and faunal bone. Students will carry out analyses on samples of artifacts, learning about their construction, their functions and their development through time. These studies will lead to consideration of the survival and importance of "traditional" technologies in both developing and developed modern countries. Exclusion: ANTD03

Prerequisite: ANTA01, ANTB26 is recommended as a corequisite.

M. Latta

Session: Winter Day

ANIB07S Comparative Slavery

Telephone ID#: 00720753 An examination of slavery as an institution in several areas of the world, including Brazil, Africa, the Caribbean, and the

United States. An effort will be made to examine the modern consequences of slavery as well.

Prerequisite: ANTA01

R. Shirley

Session: Winter Day

ANTB11F Human Behaviour in the Old Stone Age

Telephone ID#: 00721133 The development of art, technology, religion and lifeways of hunters and gatherers living from two million to ten thousand years ago. Our intellect, interests, emotions, and basic social life are all in part evolutionary products of the success of hunting adaptations over this span of time. Issues to be considered include the nature of prehistoric technological innovation and social change and the reconstruction of ancient ideologies and ecological systems. Prerequisite: ANTA01 (ANTB26 is

recommended) H.B. Schroeder Session: Winter Day

ANIB12S The Rise of Civilization

Telephone ID#: 00721253 Examination of the two major cultural developments of the past ten thousand years out of which emerged modern human societies: the agricultural and urban transformations. The course emphasizes the ecological-adaptive factors and the archaeological evidence bearing on the beginnings of permanent human settlements, the domestication of plants and animals, and the development of complex social and technological systems. Prerequisite: ANTA01 (ANTB26 is recommended)

H.B. Schroeder Session: Winter Day

ANTB15Y Biological Anthropology

Telephone ID #: 00721563 A survey of the human place in nature: origin (Fall) and ongoing evolution (Spring). Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologist.

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

paleontological principles and human

origins.

Exclusion: ANT203

Prerequisite: ANTA01 or permission of

instructor. TBA

Session: Winter Evening

ANIB16Y Cultures of Modern Canada

Telephone ID#: 00721663 This course has two objectives: on the one hand, it explores the regional and ethnic diversity of contemporary Canadian cultures, and on the other, it examines forces which operate, however successfully, to bind Canadians together and foster a coherent world-view. The first objective entails consideration of localized case studies, e.g. of agriculturally based religious communities, Newfoundland outports, indigenous groups (Native Canadians and Metis), and others. The second involves searching for shared cultural meaning in Canadian literature, myth and symbolism, mass media, and political culture. Issues of particular înterest are Canada's place în a Western meta-culture, and the extent to which technology both reflects cultural assumptions and implicitly shapes relations to the physical and social

Prerequisite: ANTA01 or permission of instructor

Session: Winter Day

environments.

TBA

ANIB20Y Social and Cultural Anthropology

Telephone ID #: 00722063 Basic approaches to the understanding of social and cultural organization in societies of varying complexity but with emphasis on simpler societies. Comparative social institutions, especially kinship and marriage will be examined along with economic, political, legal and ritual elements. Some attention will also be given to belief systems and symbolic thought as well as sources of stability and change in society and anthropological perspectives on current social issues.

Exclusion: ANT204 Prerequisite: ANTA01 or permission of instructor.

R.W. Shirley Session: Winter Day

ANIB22Y Primate Behaviour Telephone ID#: 00722263

A general introduction to the lifeways of non-human primates.

Because studying non-human Primates depends on the ability to record accurately what has occurred, emphasis is placed on observation and recording. Readings and lectures develop the context in which observations are analyzed. Tools of recording and analysis are practiced and presented in seminars.

Exclusion: (ANTC22) Prerequisite: ANTA01 or ANTB15 or PSYA01 or BIOA03

F.D.Burton

Session: Winter Day

ANIB25F Human Nature: An Anthropological Inquiry Telephone ID#: 00722533

This course seeks to examine a fundamental issue: is there a "human nature" - an intrinsic template which distinguishes the human species from all others? Are the attributions made to "human nature" adequate depictions of that, or are they convenient rhetoric for some other purpose? Myths, legends and parables have frequently used animal kin, especially nonhuman primates, as metaphor and model in which the "intrinsic" being of humans is derived from the characteristics attributed to other animals. This course investigates this desire to see ourselves reflected in other creatures by exploring the literature of physical anthropology and related fields which have sought to describe "human nature". Two hours of lectures each week. Prerequisite: ANTA01 or permission of instructor.

ANTB26Y An Introduction to Prehistoric

Archaeology Telephone ID #: 00722663

Session: Winter Day

F.D. Burton

A survey of the anthropological subdiscipline which is concerned with human socio-cultural development during the past three million years. Specifically, the course reviews the aims, methods and practice 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.

Exclusion: ANT200 Prerequisite: ANTAO1 H. B. Schroeder Session: Winter Day

ANTCO3F and ANTCO4S Directed Reading in Anthropology

A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. Individual tutorials, as arranged. Prerequisite: ANTA01 and one B-level fullcourse equivalent in Anthropology and permission of instructor. Session: Winter Day, Winter Evening, Summer Evening Members of Faculty

ANTC05Y Anthropological Study of Religion

Telephone ID#: 00730563 A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights and obligations arising out of human dependence on such beings; and of magic, curing, witchcraft and sorcery. The course is concerned with the anthropological study of supernatural beliefs in small scale non-Western societies. Topics covered (time permitting) will be: the origin and function of religion; symbolism; myth; ritual; shaminism; magic; witchcraft; divination;

death; ghosts; ancestor cults; and dynamics

in religion. One two-hour session per

week. Exclusion: (ANTB02) Prerequisite: ANTA01 Session: Winter Day G. Gillison

ANTC11Y The Anthropology of Women and Gender

Telephone ID #: 00731163

A cross-cultural examination of sex roles and gender constructs and their implications for the position(s) of women in contemporary and traditional societies. The course explores how and why socio-cultural systems based on sexual inequality originate, how they maintain themselves, and how they change. Topics include: biological freedoms and constraints; cultural interpretations of femaleness and maleness seen in myth, ritual, metaphor and other imagery; economic and political aspects of gender relations, especially sexuality and reproduction; differences and similarities between small scale and complex societies. Prerequisite: ANTA01 or WSTA01 or permission of instructor.

Session: Winter Evening

J. Boddy

ANTC12H Research on the Social Behaviour of Non-Human Primates

Telephone ID#: 00741243 The purpose of this course is to study nonhuman primates in a free-ranging habitat. Because the animals are habituated to humans, observation from dawn to dusk is possible. The field experience includes exploration of the impact of the local people on the environment and conservation of the monkeys. This field course costs around \$2000 depending on location. Enrolment is limited to 10. Prerequisite: ANTC22 and permission of instructor

Session: Winter Day F.D. Burton

ANTC35F Quantitative Methods in Anthropology

Telephone ID#: 00733533 A consideration of quantitative data and analytical goals, especially in archaeology and physical anthropology. Some elementary computing, and a review of programme packages suitable for anthropological analyses will be included. Exclusions: (ANTB43); ECOB11; PSYB07; SOCB06

Prerequisite: ANTA01; ANTB15 and ANTB26 are recommended Session: Winter Day L. Sawchuk

ANTC37S Prehistory of Mexico and Mesoamerica

Telephone ID#: 00733753 An attempt to understand the development and achievements of the civilization of Mexico. We will consider the two main problems: the beginnings of agriculture and its effects on culture, and the forces which contribute to the emergence or disappearance of civilization. Students will become familiar with the art, crafts and architectural styles of the best known sites which typify the civilizations of this region.

Exclusion: (ANTB37), ANT316 Prerequisite: ANTA01: ANTB03 and ANTB38 is recommended. Session: Winter Day M. Latta

ANTC41Y Human Adaptability

Telephone ID#: 00734163 Human adaptability refers to the human capacity to cope with a wide range of environmental conditions, including aspects of the physical environment like climate (extreme cold and heat), high altitude, and geology, as well as aspects of the socio-cultural milieu, such as pathogens (disease), nutrition and malnutrition, migration, technology, and social change. Behavioural/cultural, physiological, and genetic modes of adaptation are discussed within the context of an holistic, population-based, biocultural perspective. Case studies are used extensively. Emphasis is placed on applying theories and principles to contemporary environmental problems. Exclusion: (ANTB44) Prerequisite: ANTA01 or BIOA03; ANTB15 highly recommended. Session: Winter Day L. Sawchuk

ANTC50F Death and Burial

Telephone ID#: 00735033 The problem of death and suitable treatment of the dead became a human concern by the late Pleistocene, and it is an important component of all human cultures today. To the archaeologist, burials are uniquely important because they are intentional depositions, intended for preservation into the future, of otherwise lost complex symbolic systems. A selection of ethnographic studies of burial practices will lead to an evaluation of the way in which activities are assimilated into the archaeological record. Next, we will examine archaeological burial data to compare the nature of symbolic response to death with important social and economic cultural processes including the rise of horticulture, urbanization and the development of social stratification. Prerequisite: A B-level course in Anthropology Session: Winter Day

ANTC56Y Anthropology of Food

M. Latta

Telephone ID#: 00735663 The role of food as nutrient and its social significance as symbol constitute the theme of this course. The evolutionary approach is taken as changes in the human diet over millennia are surveyed. The current implications of the transformation from gatherer-hunter to domesticator of food sources and its attendant redistribution of nutrient within society are background for issues in development as they specifically relate to food availability. Students are

asked to reflect on their food traditions as they analyze a traditional meal for nutritional and social content.
Exclusion: (ANTB56)
Prerequisite: ANTA01 and one other B or C level course in Anthropology.
F.D. Burton
Session: Winter Day

ANID15S Frontiers of Anthropology Telephone ID#: 00741553
This is an advanced seminar course primarily for majors and specialists in Anthropology .
Exclusion: ANTB49
Prerequisite: Permission of Instructor Session: Winter Day TBA

ANID16S Biomedical Anthropology
Telephone ID #: 00741653
This course is designed for advanced
students seeking an intensive examination
of specific problems in medical
Anthropology.

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

Two hours of lectures and one three-hour laboratory session per week. Exclusion: (ANTC45)
Prerequisite: ANTC51 and one C level full-course equivalent in Physical Anthropology Session: Winter Day L. Sawchuk

ANID31S and D32F Advanced Research in Anthropology Directed critical examination of specific problems in Anthropology, based on

tutorials, are arranged. Prerequisite: Permission of instructor Session: Winter Day, Winter Evening, Summer Evening

library and/or field research. Individual

Members of Faculty

Courses Not Offered in 1992-93

ANTB01Y Ecological Anthropology Prerequisite: ANTA01 ANTB05F African Cultures and Societies I: Survey Prerequisite: ANTA01 or Permission of Instructor ANTB21Y Canadian Native Peoples Prerequisite: ANTA01 or permission of instructor Corequisite: ANTB38, ANTC28 recommended ANTB38Y Prehistory of North America Prerequisite: ANTA01; ANTB26 recommended as prerequisite or corequisite ANTB49F/S Myth and Symbol Prerequisite: ANTA01 ANTB54F/S Anthropology of Sex Prerequisite: ANTA01; ANTB15 ANTC06F/S African Cultures and Societies II: Case Studies Prerequisite: ANTB05 ANTC10F/S Anthropological Perspectives on Development Prerequisite: ANTA01 ANTC16Y Human Origins Prerequisite: ANTA01 or permission of instructor ANTC19F/S Economic Anthropology Exclusion: ANT441 Prerequisite: ANTA01 or WSTA01 (JHSA01) or permission of instructor ANTC25F/S Anthropology and Psychology Prerequisite: ANTA01 Corequisite: ANTB20 and PSYB30 are recommended ANTC32F/S Political Anthropology Prerequisite: ANTAOL ANTC40Y Anthropological Demography Prerequisite: ANTA01; ANTB15 is recommended ANTC47Y Human Osteology Prerequisite: ANTA01 or BIOA03; ANTC16 (ANTB14) and ANTB15 recommended ANTC51Y Medical Anthropology Prerequisite: ANTA01 ANTC60F/S Fieldwork in Social and Cultural Anthropology Prerequisites: Any B-level

course in Anthropology or

IDS or permission of

instructor.

ANTD02F/S Background to Modern Archaeology: Settlement **Patterns** Prerequisite: Any B level full-course equivalent in Archaeology or related disciplines ANTD03Y Analysis of Archaeological Material Prerequisite: Any B-level course in Archaeology ANTD11Y The Concept of Race in Anthropology Exclusion: (ANTC43) Prerequisite: ANTB15 or one C-level course in Anthropology ANTD14Y New Perspective on Human Origins Prerequisite: ANTB15 or one C-level course in Physical Anthropology ANTD23F/S Ethnomedicine Prerequisite: ANTC51 or permission of instructor ANTD24F/S Theory and Methodology in Social/Cultural Anthropology Exclusion: (ANTC16),(ANTC17) Prerequisite: ANTA01 and ANTB20 or permission of instructor

administration and public and high school teaching.

The course requirements for a Specialist Programme in the Arts are as follows:

1 The Major Component:
One of the following areas:
Drama
Fine Art History

Fine Art Studio Music

In each case the courses taken are the same as those specified for the Major Programme in the chosen discipline. Consult the calendar entries under the individual disciplines.

2 The Minor Component: Two of the following areas, other than the area chosen as the Major Component:

Arts Administration:

AADB01Y (Introduction to Arts
Administration)
and 2 full-course equivalents from:
MGTA02Y Introduction to Management
Financial Accounting
ECOA02Y Introduction to Economics: A
Mathematical Approach

or
ECOA03Y Introduction to Economics

ECOA03Y Introduction to Economics
ECOB35F/S Public Decision Making*
Organizational Behaviour*
POLA50Y Introduction to Canadian
Politics

* Students should check these courses for prerequisites

Creative Writing:

ENGC66Y Creative Writing I ENGC66Y Independent Studies: Creative Writing

and one full-course equivalent at the D-level in Directed Writing.

Drama:

DRAB01Y, DRAB03Y, DRAB04Y.

Fine Art History:

FARA10F/S, FARA11F/S, FARA12F/S, FARA13F/S, plus one full-course equivalent at the B-level (Supervisor's approval required).

Fine Art Studio:

FARA90Y and any two full-course equivalents in Fine Art Studio.
Music:

MUSA01Y and any two full-course equivalents in Music.

3 HUMC11H

Plus one and one half full-course equivalents from relevant disciplines. Authorization from the programme supervisor is required.

Arts

Specialist Programme in the Arts

Supervisor: Janis Hoogstraten (287-7128) The Specialist Programme in the Arts is designed for all those students with an active interest in the Arts. This programme will give the student a broad foundation in the areas of Fine Art, Music, and Drama while at the same time developing expertise in one of the areas. In addition, the more practical aspects of these areas can be studied in the minor component in Arts Administration.

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

HUMC11H Arts Seminar

A seminar/performance course combining at least two of: Fine Art Studio, Fine Art History, Drama and Music. Students will bring a proposal for a project to the supervisor early in the fall term and develop their proposals through the term. They will present their seminar/performance in the spring term. The form of presentation will depend upon the development of the proposal and the disciplines involved. Prerequisites: at least 10 full-course equivalents in the Arts Programme. Session: Winter Day Co-ordinator: J. Hoogstraten Offered 1993/94 and 1994/95

Astronomy

Discipline Representative: C.C. Dyer (287-7206)

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is basically the attempt to understand the environment in which humanity developed, from the solar system in which we find our direct and recent origins, to the largest distance scales typified by quasars and the big bang, in which we must search for the very origins of structure ranging from the solar system to the largest structures, such as large clusters of galaxies and cosmic voids. The past quarter century has seen startling discoveries, such as the cosmic microwave background radiation, that have given us both new understanding of the universe and made us more aware of the problems still facing us in attaining a further understanding. In addition there has recently been a significant trend towards the integration of many of the ideas of modern high energy Physics into Astronomy, with particularly interesting developments concerning ideas about the very first seconds in the evolution of our universe.

The full range of modern astronomical topics is covered in the introductory course ASTA03Y. For students wishing to further their study in Astronomy, there are a number of B and C level courses, which are integral components of a number of the Physical Sciences Specialist Programmes. In addition, the course ASTB03S is intended for students who have taken no previous astronomy, and covers the history of

modern Astronomy. It is intended to provide a historical perspective on modern Astronomy, and by example, an introduction to the evolution of a number of modern scientific areas.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Astronomy, Mathematics and Physics

Major Programme in Astronomy and Physics

ASTA03Y Introduction to Astronomy Telephone ID #: 01110363 A description of the solar system, sun, stars, galaxies and other phenomena of the Cosmos in which we live. The mechanisms which make our sun and other stars shine are explained, and the nature and evolution of our solar system, star systems, galaxies and the Universe as a whole are discussed in a manner suitable for both the science and non- science student. Methods and techniques for exploring the Universe are described, including the recent use of radio telescopes and telescopes on spacecraft. Two lectures and one tutorial per week. This is supplemented by a planetarium demonstration and a class trip to the David Dunlap Observatory. Using the College's 12 inch Questar telescope, students also have an opportunity to observe and to photograph heavenly bodies if they wish. Exclusion: AST100, 120, 200 Session: Winter Day R.G.Carlberg

ASTB03S Great Moments in Astronomy Telephone ID #: 01120353 An examination of the people, the background and the events associated with

some major advances in astronomy. Emphasis is given to the role of a few key individuals and to how their 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 stars; the proof of the existence of "island universes"; the birth of the theory of stellar structure; the detection of the cosmic fireball; and the expansion of the Universe. The perspective gained is used to

assess current astronomical research and its impact on society.

The course is intended primarily for students not in Physical Science who, in their second or higher years, wish to acquire an understanding of the origins and significance of our present world view. A term paper dealing in detail with an aspect of one of the topics is required. Exclusion: AST210

Prerequisite: Four full-course equivalents Session: Winter Evening

ASTB50S Celestial and Classical Mechanics

Telephone ID #: 01125053 This course considers classical mechanics with particular emphasis on its origins and applications in celestial mechanics, particularly the study of the motions of bodies in planetary systems. Topics will include central force laws, Kepler's Laws, conservation laws, Lagrange's equations, and an introduction to Hamiltonian mechanics.

Prerequisite: ASTA03Y, MATA26Y, PHYA01Y

Corequisite: MATB41F, MATB42S, PHYB21S

ASTC01H Research Topics in Astronomy

Telephone ID #: 01130143 Application of individual effort to reading and research on a topic of current interest. Research on some topic of current interest in astrophysics and write a report ("minithesis") on their work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. For more detailed information see Professors Dyer or Kronberg. The bibliography is dependent upon the topic

selected.

Exclusion: AST425 Prerequisite: ASTA03 or 323; PHYB21S,

permission of instructor Session: Winter Day

ASTC50F Structure and Evolution of Astrophysical Bodies

Telephone ID #: 01135033 The structure and evolution of astrophysical bodies, particularly stars of various types is considered from its basis in various branches of Physics, and from the observational viewpoint. A number of areas of Physics come together to explain the structure and stability of stars, including gravitation, thermodynamics, radiative processes, and nuclear energy generation mechanisms. Of particular interest is the fragile balance among the various forces and processes, and failures in this balance will be shown to lead to various evolutionary tracks, leading from the birth of stars to the various possible endstates for stars, such as neutron stars and black holes. The generation of the atomic elements by the nuclear processes in stars will be considered. There will also be some discussion of cooler objects, such as the planets, where the structure is typically more complicated due to the solid or liquid state of matter in these objects. Prerequisite: ASTA03Y, ASTB50S, MATA26Y Corequisite: MATB41F, MATB42S

ASTC51S Stellar Systems, Galaxies, and Cosmology

Telephone ID #: 01135153 This course will consider the structure and evolution of collections of astrophysical bodies, usually starting at the scale of stars. Topics will include the star clusters found in various regions of most galaxies, and their implications both for the evolution of the stars and for the evolution of the galaxies of which they are a part. The study of galaxies will extend to their morphology, evolution, and place in the evolution of larger systems, such as clusters of galaxies, superclusters, and eventually the universe. The large scale structure of the universe, cosmology, will be considered in the Newtonian gravity approximation, leading to the simple Friedmann models of the universe. Observational approaches to determining limits on the large scale structure of the universe will be considered. Prerequisite: ASTA03Y, ASTB50S, ASTC50F

Corequisite: PHYC22S Offered 1993/94

Biological Sciences

Associate Chair: D.D. Williams (Office S-549)

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

Four Programmes in Biology are offered. (1) Three Specialist Programmes: for students wishing to concentrate in the biological sciences. These Programmes cover core areas of Biology and require a number of courses in cognate disciplines. NOTE - it is possible for students to take the introductory mathematics and physics courses (or in the case of the Ecology and Environmental Programme mathematics and physics, geography, or geology courses) in the second, third, or fourth years of the Programme. (2) The Major Programme: for students interested in Biology but wishing to combine it with other areas of interest.

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

Major Programme in Biological Sciences Supervisor: G. F. Israelstam (Office S-526) This Programme must include BIOA03Y plus 6 full- course equivalents in Biology. Note that at least I full-course equivalent must be in animal science and I full-course equivalent in plant science.

The following are the plant science

BIOB06Y, BIOB39F, BIOB40S, (BIOC07S), BIOC37F, BIOC38S, BIOC46S, BIOC47F, (BIOD10S), (BIOD11F), BIOD12H, BIOD17F, BIOD30S.1

Note that B, C, and D level courses can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites.

1 BIOA03Y

At least six full-course equivalents (unspecified) from the following groups: (Note that at least 0.5 fullcourse equivalent must be taken from each group and that courses with an * can be used to fulfil this requirement in only one group). Group 1. Evolution, Structure, and Diversity: BIOB25F*, BIOB26S, BIOB32F, BIOB39F, BIOB40S, BIOC29F, BIOC30S, BIOC37F*, BIOC38S, BIOC60F. Group 2. Physiology and Biochemistry: BIOB02Y, BIOB06Y, BIOB17Y, BIOC31S*, BIOC48F*, BIOC35Y, BIOC36H, BIOD12H, BIOD30S. Group 3. Ecology and Environmental Biology: BIOB12Y, BIOB14F, (BIOB28S), BIOC03F, (BIOC07S), BIOC16S, BIOC18S (BIOB03S), BIOC19F, BIOC33S, BIOC46S, BIOC47F, (BIOC50F), BIOC52F, BIOC64F, BIOC65S, BIOC68F, BIOC99F, (BIOD10S), (BIOD11F), BIOD13F, BIOD15F, BIOD22S, BIOD61S. Group 4. Genetics and Cell Biology: BIOB05Y, BIOB23Y, BIOB25F*, BIOC31S*, BIOC37F*, BIOC48F*, BIOC20Y, (BIOC51F), BIOD05S, BIOD17F, BIOD18S, BIOD19S.

Specialist Programme in Biological Sciences

Supervisor: G. F. Israelstam (Office S-526) This Programme must include the following 14 full- course equivalents of which at least one should be in the Plant Sciences (see Major Programme for a list of Plant Science courses) and at least three must be at the C or D levels (0.5 must be at the D level). Note that courses at the B, C, or D levels may be taken in any year after the first, subject to the fulfilment of the necessary prerequisites.

BIOAO3Y

- At least one full-course equivalent in Evolution, Structure, and Diversity: BIOB25F, BIOB26S, BIOB32F, BIOB39F, BIOB40S, BIOC29F, BIOC30S, BIOC37F, BIOC38S, BIOC60F.
- At least one full-course equivalent in BIOB02Y, BIOB06Y, BIOB17Y, BIOC31S, BIOD12H, BIOD30S.

- At least one full-course equivalent in Ecology and Environmental Biology: BIOB12Y, BIOB14F, (BIOB28S), BIOC03F, (BIOC07S), BIOC16S, BIOC18S (BIOB03S), BIOC19F, BIOC33S, BIOC46S, BIOC47F, (BIOC50F), (BIOC51F), BIOC52F, BIOC64F, BIOC65S, BIOC68F, BIOC99F, (BIOD10S), (BIOD11F), BIOD13F, BIOD15F, BIOD22S, BIOD61S.
- At least one full-course equivalent in Cell and Molecular Biology: BIOB05Y, BIOB23Y, BIOC20Y, BIOC35Y, BIOC36H, BIOC48F, BIOD05S, BIOD17F, BIOD18S, BIOD19S.
- Five other full-course equivalents in Biology (unspecified). Note that BIOD01Y or BIOD02Y can be used in filling this requirement.
- Three full-course equivalents in cognate disciplines: CHMA02Y PHYA01Y or PHYA02Y MATA26Y or (MATA27Y)

One full-course equivalent from Humanities or BIOC70F and BIOC71S.

It is recommended that Biology Specialists take a course in Computer Science such as CSCA02F/S (CSCA04F/S) or CSCA06F/S or (CSCA56F/S) or CSCA57F/S.

Specialist Programme in Cell and Molecular Biology

Supervisor: J. Youson (Office S-566) This programme must include the following 14 full- course equivalents of which at least 3 must be at the C or D levels (0.5 must be at the D level). Note that courses at the B, C, or D levels can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites. However, CHMB44Y (CHMB05Y) Organic Chemistry is strongly recommended in the second year for students who plan to take Biochemistry. BIOAO3Y

- Five full-course equivalents as follows: BIOB02Y; BIOB05Y; BIOC20Y; BIOC35Y: BIOC36H: BIOC48F or BIOD19S. Courses from the above which are not used to fulfil the requirement of the five full-course equivalents in category 2 may be used to fulfil the requirement of three full-course equivalents in category 3 below.
- Three full-course equivalents from the following:

BIOB06Y or BIOB17Y; BIOB23Y; BIOB25F or BIOC37F; BIOD05S; BIOD17F; BIOD18S; BIOD01Y or BIOD02Y. Courses from the following St. George offerings may be taken to satisfy 1.5 full-course equivalents of the 3 fullcourse equivalents required for this category: JBM351Y, JBM353Y, IMM334Y, any MPL400 series course, any BCH400 series course, or any MGB course. Students who wish to enrol in courses offered on the St. George campus should note that entry into many of these courses will be by

- ballot. Four full-course equivalents in cognate disciplines: CHMA02Y CHMB44Y (CHMB05Y) PHYA01Y or PHYA02Y MATA26Y or (MATA27Y)
- One full-course equivalent from the Biology course offerings at Scarborough Campus not listed above. BIOC60F and BIOD61S are recommended.
- It is strongly recommended that students take a statistics course.

Specialist Programme in Ecology and Environmental Biology

Supervisor: J. Eadie (Office S-558) This Programme must include the following 14 full- course equivalents of which at least 3 must be at the C or D levels (0.5 must be at the D level). At least I full-course equivalent must be in animal science and 1 full-course equivalent in plant science (see Major Programme for list of plant science courses). Note that B, C or D level courses can be taken in any year after the first, subject to the fulfilment of the necessary prerequisites.

BIOA03Y

5.5 full-course equivalents in Ecology and Environmental Biology: a) 2.0 full-course equivalents are mandatory: BIOB12Y, (BIOB28S), BIOC60F and STAB22F/S. b) 3.5 full-course equivalents from the following groups with at least 0.5 fullcourse equivalent from each group: Note for 1992/93, please consult with the Supervisor of Studies regarding availability of courses in Group 1. Group 1: (BIOC07S), BIOC46S, BIOC47F, (BIOD10S), (BIOD11F) Group 2: BIOC16S, BIOC19F, BIOD13F, BIOD15F

- Group 3: BIOB14F, BIOC03F, BIOC18S (BIOB03S), BIOC33S, (BIOC50F), BIOC52F, BIOC64F, BIOC65S, BIOC68F, BIOC99F, BIOD22S, BIOD61S*.
- 3 1.5 full-course equivalents in Structure and Diversity:
 BIOB25F*, BIOB26S, BIOB32F, BIOB39F, BIOB40S, BIOC29F, BIOC30S, BIOC37F*, BIOC38S.
- 4 One full-course equivalent in Physiology and Biochemistry: BIOB02Y, BIOB06Y, BIOB17Y, BIOC31S*, BIOC35Y, BIOC36H, BIOC48F*, BIOD12H, BIOD30S.
- 5 One full-course equivalent in Genetics and Cell Biology: BIOB05Y, BIOB23Y, BIOB25F*, BIOC20Y, BIOC31S*, BIOC37F*, BIOC48F*,(BIOC51F), BIOD05S, BIOD17S, BIOD18S, BIOD19S, BIOD61S*.
- 6 Note that in the above items 2, 3, 4 and 5 courses with an * can be used to fulfill the requirements of one category only.
- One full-course equivalent from categories 3, 4, and 5 or from BIOD01Y or BIOD02Y.
- 8 Three full-course equivalents in cognate disciplines:
 CHMA02Y
 PHYA01Y or PHYA02Y
 MATA26Y
 GLGA01Y or GGRA05F/S plus
 CSCA02F/S (CSCA04F/S) or
 CSCA06F/S
- 9 For those interested in pursuing Theoretical Ecology, an additional MAT course should be considered.
- 1 0 A computer science course, CSCA02F/S (CSCA04F/S) or CSCA06F/S or (CSCA56F/S) or CSCA57F/S, is rcommended.

BIOA03Y Introductory Biology

Telephone ID #: 01310363
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 in plants and animals and the origin and evolution of life.

Specific topics include: the chemical constituents of cells, cell structure and function, inheritance, the structure and function of genes, early developmental

processes, mechanisms of development, cellular metabolism, photosynthesis, molecular basis of muscle contraction, nerve physiology, plant hormones, evolution, basic ecology.

Two one-hour lectures and one three-hour laboratory per week. Laboratory and discussion periods will supplement the lecture material.

Exclusion: BIO100, BIO150

Although this course has no prerequisites, a background in Biology and Chemistry is recommended.

Session: Winter Day

The Faculty

BIOB01Y Introduction to Biological Sciences

Telephone ID #: 01320163

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

The course is designed for students with no formal background in Biology but who have acquired some skill in reflection and in writing. Topics will include the functioning of cells and organisms and the relationships of organisms in space and time. The contemporary understanding of biological structures and functions will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies which require biological input for their solution. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods. Exclusion: (JBHB01). Not open to students who are taking or have taken BIOA03Y. Prerequisite: Either, two full-course equivalents in the Division of Humanities; or, two full-course equivalents in the Division of Social Sciences with permission of instructor. Session; Winter Day G. R. Williams

BIOB02Y Basic Microbiology

Telephone ID #: 01320263
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. 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 the environment. To obtain proficiency in the handling and

growing of microorganisms in the laboratory.

One two- hour lecture and three hours of laboratory each week.
Exclusion: MPL200Y
Prerequisite: BIOA03
Session: Winter Day

T.B.A.

BIOB05Y Genetics

Telephone ID #: 01320563
A lecture and laboratory course in basic genetics and cytogenetics, with examples chosen from work on bacteria, fungi, Drosophila and vertebrates, including man.

Topics include: Mendel's principles, linkage, mapping, structure of genes, genetic control of protein synthesis, recombinant DNA technology and its uses, regulation of gene activity, chromosome structure, mutation. Lectures, laboratory, problem sessions, discussion. Exclusion: BIO260H

Prerequisite: BIOA03 Session: Winter Day M.F. Filosa

BIOB06Y Plant Physiology Telephone ID #: 01320663

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

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

Exclusions: BOT322Y, BOT323H, BOT421H

Prerequisite: BIOA03 Session: Winter Day G.F. Israelstam

BIOB12Y Fundamentals of Ecology

Telephone ID #: 01321263
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.

Importance of evolution in ecology; 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; 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.

Exclusions: ZOO323Y, BOT330H

Prerequisite: BIOA03 Session: Winter Day R. Boonstra

BIOB14F Environmental Biology Telephone ID #: 01321433

A course designed to explore the biological consequences of major selected problems facing Canada and the World which are a direct consequence of human activities. Each of the problems addressed will deal with the causes, the effects, and the potential solutions. A short introduction section in the course will discuss a number of ecological principles that apply to communities in order to set the stage for interpreting the implications of these problems. The following will be among the topics discussed: sustainable development, the pesticide problem, the acid rain problem, the potential impact of increasing carbon dioxide levels on world climate, conservation and extinction of plants and animals, deforestation of the tropics and the human population problem.

Two one-hour lectures per week, plus tutorials every week.
Prerequisite: BIOA03 or permission of instructor
Session: Winter Day

R. Boonstra

BIOB17Y Animal Physiology

Telephone ID #: 01321763

The function of cells and of the organ systems which have evolved to control the environment of the individual cell within the organism. Topics include: (i) body fluids and circulation, (ii) ionic and osmotic balance, (iii) excretion, (iv) gas exchange, (v) nerve and muscle physiology. First term - nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation. Second term - nerves and bioelectricity, synapses and integration,

muscle and neuromuscular systems, sense receptors, hormones.

Lectures and laboratory work.

Exclusion: ZOO252Y Prerequisite: BIOA03 Session; Winter Day C. K. Govind

BIOB23Y Developmental Biology

Telephone ID #: 01322363 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 variety of multicellular organisms. Particular reference will be given to the concept that regulation of gene activity is fundamental to development.

In the Fall term and the first half of the Spring term the principles of animal development are dealt with. The following model systems are employed erythropoiesis, lens development, spermatogenesis, myogenesis, frog metamorphosis and carcinogenesis.

In the last half of the second term aspects of plant development will be discussed. Topics will include: seed germination, meristems and hormonal and environmental effects on plant development.

Lectures and laboratory work. Exclusion: ZOO228Y Prerequisite: BIOA03 Session: Winter Day I.R. Brown and C.D. Riggs

BIOB25F Vertebrate Histology: Cells and Tissues

Telephone ID #: 01322533 The structure of cells and the various tissue types which make up the vertebrate body: epithelial, connective, muscle, nervous, blood, and lymphatic with emphasis on their involvement in form and function.

Two one-hour lectures and three hours of laboratory per week. Exclusion: ZOO351H Prerequisite: BIOA03 Session: Winter Day J. H. Youson

BIOB26S Vertebrate Histology: Organs

Telephone ID #: 01322653 The histological structure of the major organ systems of the vertebrate body (integument, digestive, respiratory, excretory, reproductive, and endocrine) with particular emphasis on functional morphology, evolution, and development.

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

Exclusion: ZOO351H

Prerequisite: BIOA03, BIOB25

Session: Winter Day J. H. Youson

BIOB32F Vertebrate Morphogenesis

Telephone ID #: 01323233 A lecture and laboratory course on comparative morphogenesis of the vertebrates, dealing with their evolution and their anatomical and functional specializations as expressions of their responses to environmental challenges and selection pressures. Beginning with ancestral vertebrates, the evolutionary pathways leading to the more highly evolved and extant vertebrates will be examined. Laboratory work includes study of prepared material and dissection of representative preserved specimens. Exclusion: ZOO263Y

Prerequisite: BIOA03 Session: Winter Day A. H. Weatherley

R. E. Dengler

BIOB39F Comparative Morphology of Fungi, Algae and Bryophytes Telephone ID #: 01323933

A survey course of the major groups of fungi and nonvascular plants with emphasis on the fungi and algae. A comparison of the structure, development and reproduction of representative organisms will serve to define the diagnostic characteristics of the major groups and to reveal evolutionary relationships within and between these groups. The laboratories offer an opportunity to examine organisms which are dealt with in the lectures and text. Where possible, living specimens are used. Offered in alternate years. Exclusion: BOT251Y Prerequisite: BIOA03 Session: Winter Day

BIOB40S Comparative Morphology of Vascular Plants

Telephone ID #: 01324053 A survey course of the major groups of vascular plants including the club mosses, spike mosses, quillworts, horsetails, ferns, gymnosperms and angiosperms. A comparison of structure, development and reproduction of representative organisms will serve to define the diagnostic characteristics of the major groups. Emphasis will be given to the seed plants and to evolutionary trends in their sexual reproduction. The laboratories offer an opportunity to examine living and fossil organisms which are dealt with in the

lectures and text. Many examples used are plants native to Southern Ontario. Offered in alternate years.

Exclusion: BOT251Y Prerequisite: BIOA03 Session: Winter Day R. E. Dengler

BIOC03F Ecology Field Course

Telephone ID #: 01330333 Coverage of basic principles and selected techniques of animal and plant ecology. Students will study a variety of aspects of local ecosystems (both aquatic and terrestrial).

Format will consist of extensive field/laboratory work complemented by lectures and tutorials. Offered in alternate years.

Limited enrolment: 15 Exclusion: BIO300H Prerequisite: BIOB12 Session: Winter Day Members of Faculty

BIOC16S Marine Biology: Habitats and Communities

Telephone ID #: 01331653 A course in selected topics of marine biology. This course will be held during reading week at the Bermuda Biological Station and will have a considerable practical component. Prior to field work, there will be a series of lectures on the origins of the oceans; waves, tides and currents; and the ecology of marine organisms, at Scarborough. In Bermuda, students will study three main habitat types: rocky shore, open ocean, and coral reef. In addition, students will work on individual field projects. There will be a final exam at the end of the spring term. Limited enrolment: 16. Exclusion: BIO301 Prerequisite or corequisite: BIOC29F and

permission of instructor* Session: Winter Evening D.D. Williams * As this course is often oversubscribed.

interested students must contact the instructor well in advance of the start of the fall term for details and must, at that time, be prepared to place a deposit towards the cost of airfare and accommodation. Places are allocated on a first-come, first-served

BIOC18S Microbes in the Environment Telephone ID #: 01331853

This microbial ecology course will deal with the relationships of microorganisms: algae, bacteria, cyanobacteria, fungi, and

viruses, to their environments. As customary in microbial ecology, the course will be both organism and habitat oriented.

Major topics will include the role of microbes as biogeochemical agents (organic matter and nutrient cycling) in both terrestrial and aquatic environments; as specific pathogens, producers of specific antagonistic and stimulating factors, and as symbionts.

Other topics will include bacteria as primary producers in unusual environments e.g., deep-ocean hydrothermal vents; and the significance of degradation processes carried out by bacteria in the context of oil spills and other environmental hazards.

One two-hour lecture per week;

problem sets. Exclusion: (BIOB03) Prerequisite: BIOB02 Session: Winter Day C. Nalewajko

BIOC20Y Cell Biology

Telephone ID #: 01332063 This course will focus on both structural and functional aspects of cells. Topics to be covered include: the structure and function of cellular organelles, the cytoskeleton, organelle biogenesis, the cell cycle, membrane transport and cell-cell interactions. These topics will be discussed with regard to insights obtained from various approaches including microscopy and molecular biology.

Two hours of lectures per week. Exclusion: BIO250Y Prerequisite: One full-course equivalent from the following: BIOB02Y, BIOB05Y, BIOB23Y, BIOB25F, BIOB26S, BIOC37F, BIOC38S or BIOC35Y. BIOC35Y may be taken concurrently. Session: Winter Day R. E. Dengler/C. D. Riggs/J. H. Youson

BIOC29F Invertebrate Zoology

Telephone ID #: 01332933 A general survey of the invertebrate animals (Protozoa-Urochordata), excluding the Arthropods, with emphasis on those groups of numerical, evolutionary and medical importance. Lectures, discussion groups and laboratories will cover classification and study of diversity within groups, with emphasis on functional morphology and evolution. Living specimens and technical films will form an important part of laboratories.

Two one-hour sessions and three hours

of laboratory work per week. Field trip.

Exclusion: ZOO353Y Prerequisite: BIOA03 Session: Winter Day D.D. Williams

BIOC31S Invertebrate Neurobiology Telephone ID #: 01333153

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

One two-hour lecture per week; laboratory work to be arranged with class. Prerequisite: BIOA03 Session: Winter Day C. K. Govind

BIOC33S General Biology of Vertebrates

Telephone ID #: 01333353 Course considers a variety of living vertebrates in a comparative fashion in relation to their life cycles, distribution, adaptations and diversity of form and function, environmental physiology, population biology, ethology.

Practical work includes selected films, visits to zoo. There will also be required essays and seminars. Prerequisite: BIOA03 Session: Winter Day A. H. Weatherley

BIOC35Y Introductory Biochemistry

Telephone ID #: 01333563 An introductory course for students in the biological sciences, designed to introduce a broad range of biochemical topics.

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

The teaching method will consist of one two-hour lecture per week. The text used is: Biochemistry by L. Stryer, W.H. Freeman and Company. Exclusion: (JBCC35), BCH320Y, BCH321Y Prerequisite: BIOA03, CHMB44Y (CHMB05) Session: Winter Evening J. W. Gurd

BIOC36H Laboratory in Biochemistry

Telephone ID #: 01333643 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. Exclusion: (JBCC36), BCH370H, BCH371H Prerequisite: BIOAO3, CHMB44Y (CHMBO5) Corerequisite: BIOC35 Session: Winter Day C. Fu

BIOC47F Plant Community Ecology

Telephone ID #: 01334733 An examination of both the theory and methodology of vegetation analysis, including: description, quantitative analysis and classification of plant communities; the dynamics of vegetation, including succession theory, and the response of vegetation to the climatechange, wildfire, pathogens and other environmental factors.

One two-hour lecture and one threehour laboratory per week. Exclusion: BOT330H Prerequisite: BIOB12 Session: Winter Day T.B.A.

BIOC60F Evolutionary Biology

Telephone ID #: 01336033 An examination of the fundamental principles of evolution. Topics include: the history of evolutionary theory; mechanisms of evolutionary change; natural selection, genetic drift, mutation and recombination; the maintenance of genetic variation; speciation and adaptive radiation; rates of evolution; phylogenetics and systematics; molecular evolution; the ecological basis of evolutionary change and coevolution. The course will not consider population genetics in detail and will focus on conceptual, rather than mathematical,

Two one-hour lectures per week and one two-hour tutorial every second week. Exclusion: (BIOC06) Prerequisite: BIOA03 Session: Winter Day J. M. Eadie

BIOC65S Conservation Biology Telephone ID #: 01336553 A study of scientific principles of biological conservation.

Conservation biology is a pure and applied science that addresses the disturbing reduction in biological diversity of the planet. Lecture topics will include ecological principles of biological conservation; the impact of disease, inbreeding, hybridization, and natural catastrophes on small or fragmented populations; problems and progress on restoration and reintroduction of natural populations; captive breeding programmes; waste management; dynamic interactions between global climate change and biological conservation.

One two-hour lecture per week and one two-hour tutorial biweekly. Prerequisite: BIOB12 Session: Winter Day K. Martin

BIOC68F Environmental Toxicology

Telephone ID #: 01336833 An examination of the effects of pollutants on ecosystems. Pollutants are substances that occur in the environment at least in part as a result of anthropogenic activity, and have deleterious effects on living organisms. This course will deal with the effects of pollutants on the structure (e.g. species composition, diversity, food-web complexity), and function (e.g. nutrient cycling, primary production, secondary production) in aquatic and terrestrial ecosystems.

One two-hour lecture per week; problem sets. Text: "Ecotoxicology: the study of pollutants in ecosystems, Moriarty, 1988, Academic Press. Prerequisite: BIOA03 or permission of instructor Session: Winter Day C. Nalewajko

BIOC99F Advanced Field Course in Ecology

Telephone ID #: 01339933 Inter-university selections from a variety of field courses offered by the Ontario Universities Programme in Field Biology, a co-operative arrangement among nine universities in Southern Ontario. Courses, of one or two weeks' duration at field sites from late April through mid September, are announced each January, and most require a major paper or project report to be submitted within six weeks of course completion. A fee for room and board is charged over and above tuition. Lists of

courses available are posted early in January. Sign-up is on a first-come, firstserved basis. Students register in the fall after the course has been completed and may take one two-week course or two oneweek field courses to complete this credit. See the Scarborough co-ordinator, Professor K. Martin, for further details. Prerequisites: BIOA03, BIOB12 or permission of instructor Session: Winter Day K. Martin

BIOD01Y 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. Will require a seminar presented by the student during a Biology Research Day in the Spring.

Exclusion: BOT460Y, ZOO498Y Prerequisite: Satisfactory completion of fifteen full-course equivalents, of which at least four must be Biological Science B- or C-level courses. Session: Winter Members of Faculty

BIOD02Y Directed Research in Biology Identical to BIOD01Y (BIOC01Y) but not to be taken with the same faculty member. Prerequisite: Completion of fifteen fullcourse equivalents, of which at least four must be Biological Science B- or C-level courses. Will require a seminar presented by the student during a Biology Research Day in the Spring.

Exclusion: BOT460Y, ZOO498Y

Session: Winter Members of Faculty

BIOD05S Advanced Genetics

Telephone ID #: 01340553 This course deals in depth with three or four topics in the area of genetics. In addition to lectures by the instructor, students will present oral reports based on readings of journal articles and lead a discussion of their reports. The topics covered will be different each time the course is given. Offered in alternate years. Limited enrolment: 10. Prerequisite: BIOB05

Session: Winter Day

M. F. Filosa

BIOD12H Physiology and Biochemistry of Plant Growth and Development

Telephone ID #: 01341243

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

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 indepth understanding and to review critically the processes of growth and development in plants. It should acquaint the student with current literature on the subject, via library research, providing a sound basis for possible future research in this field. Lectures and seminars. Limited enrolment: 12.

Prerequisite: BIOB06

Corerequisite: BIOC35 recommended

Session: Winter Day G. F. Israelstam

BIOD13F Environmental Biology of Fish Populations

Telephone ID #: 01341333 Fishes are among the most widely distributed and successful of vertebrates and as such offer great scope for the study of evolution, environmental physiology, ethology and ecology - which are the major themes of this course. A simplified introduction to the study of population dynamics applied to fisheries is also considered.

Prerequisite: permission of instructor Session: Winter Day A. H. Weatherley

BIODISF River Ecology

Telephone ID #: 01341533 The course will begin with an introduction to stream hydrology and sediments, and the adaptations of plants and animals to life in a dynamic habitat. Later topics will cover micro- and macro-distribution of stream faunas and the problems of quantitatively sampling them; biotic interactions; community structure and stability; colonization patterns following disturbance; energy transformations; estimates of production; and man's effects on rivers.

Two one-hour lectures and three hours of laboratory work per week. Field trip. Offered in alternate years. Limited enrolment 15.

Exclusion: ZOO469Y

Prerequisites: BIOB12 or BIOC29 or permission of instructor Session: Winter Day D.D. Williams

BIOD17F Plant Molecular Biology Telephone ID #: 01341733 An upper level course which elaborates on

current genetic, molecular and biochemical aspects of plant cell metabolism.

Plants utilize a number of biochemical pathways which are not found in animal cells to carry out their normal life-cycles and to respond to changes in their environment. With the advent of plant transformation systems and recombinant DNA techniques these unique developmental changes and responses to environmental stimuli are beginning to be understood at the molecular level. Topics to be covered will include: the genetics of Agrobacterium and plant transformation, generation of somatic hybrids, targeting of proteins to the chloroplast, interactions between nuclear and chloroplast genomes, molecular biology of pollen development and floral evocation, embryogenesis and development of monocot and dicot seeds, cis and transacting factors controlling gene expression during the course of development and in response to environmental cues, plant genetic engineering and agricultural applications. Exclusion:MGB460H Prerequisite: BIOB05 Session: Winter Day C. D. Riggs

BIOD18S Molecular and Classical Cytogenetics

Telephone ID #: 01341853 The structure of eukaryotic nuclear genomes will be examined closely in this course. This information will then be integrated with theories on how nuclear genomes accomplish chromosome replication and nuclear division. How evolution and differentiation of new genomes occur will be considered within the above framework. The major topics for the course will be chromosome structure and organization, control of chromosome replication, chromosome behaviour in mitosis and meiosis, chromosome and genome "aberrations," genome evolution and speciation, and molecular characterization

of genomes -- technological approaches. One two-hour lecture per week. Limited

enrolment: 40

Prerequisites: BIOB05or BIOC20 or BIOC35 (JBCC35) or equivalent St. George

courses

Session: Winter Evening C. Hasenkampf

BIOD19S Molecular Biology of the Gene

Telephone ID #: 01341953 The basic concepts of the molecular biology of the gene - key experimental observations. Main topics will include - the structure and function of genes and mechanisms regulating gene expression. This lecture and laboratory course will indicate how recent advances in genetic engineering have permitted great strides to be made in increasing our basic knowledge of the molecular biology of the gene. The course will demonstrate how recent research activity utilizing recombinant DNA technology has advanced our understanding of areas such as human genetic diseases, the molecular functioning of the brain and the production of molecules useful in medicine and agriculture. Students will receive laboratory experience in the use of a range of molecular biology techniques.

Lab sections will meet once every three weeks for a 9 a.m. to 5 p.m. session. Limited to 30 students. Prerequisite: BIOBO5 or BIOC35 (JBCC35) Session: Winter Day I.R. Brown

BIOD22S Global Metabolism

Telephone ID #: 01342253 A study of global biogeochemical cycles, their integration and regulation.

The perturbation of these cycles on a short time scale by human activities and on a geological time scale by extra-planetary effects such as changes in solar input or meteoritic impact. Geochemical feed-back mechanisms tending to preserve habitability, the role of biochemical processes in these mechanisms. Habitability as a compromise between evolutionary/physiological adaptation and geochemical constraints. The link between molecular regulation and global homeostasis.

Prerequisite: GLGA01, BIOB12 or BIOB14, BIOC35 (JBCC35); or permission of instructor

Session: Winter Day G. R. Williams

BIOD30S Physiology of Algae

Telephone ID #: 01343053 Algae are a heterogenous group, ranging in size from about one micrometer to several meters, in morphology from simple unicells to elaborate seaweeds, and in physiology, from exclusively & photosynthetic organisms to forms which resemble bacteria and animals in their

nutrition. The crucial role of algae as primary producers in aquatic environments has motivated intensive investigations of their physiology.

Course content: Kinetics of growth in culture (batch cultures, chemostats and turbidostats); effects of environmental variables on photosynthesis, respiration, photorespiration, and growth; heterotrophy, osmoregulation; survival and growth in extreme environments.

One two-hour lecture and three hours of laboratory per week. The laboratory work involves about five research-style experiments. Limited enrolment: 25. Offered in alternate years. Exclusion: BOT324H Prerequisites: Eight full-course equivalents in Biology Session: Winter Day C. Nalewajko

BIOD61S Evolutionary Genetics

Telephone ID #: 01346153 Evolution, at its most fundamental level, is the progressive change in the genetic composition of a population. This course examines, in detail, the genetic mechanisms underlying evolutionary change. Lecture topics include: 1) basic population genetics - the study of Mendel's laws as applied to entire populations of organisms; 2) quantitative genetics - the extension of population genetic models to polygenic traits; and 3) molecular population genetics - the examination of evolutionary change at the molecular level. The course builds on concepts introduced in BIOC60F Evolutionary Biology, although the material is more advanced and considerably more quantitative. There will be one two-hour lecture per week and one two-hour tutorial per week. During tutorials, students will work on problem sets or computer exercises designed to provide practical experience in population geretic analysis. Prerequisites: BIOA03 and BIOC60

Corequisite: BIOB05 or permission of instructor Session: Winter Day

J.E. Eadie

Courses Not Offered 1992/93

BIOC19F	Limnology Exclusion: ZOO370H,
	ZOO471Y
	Prerequisite: BIOC18 (BIOB03)
BIOC30S	The Arthropoda
DIOCOUS	Exclusion: ZOO353Y
	Prerequisite: BIOA03,
	BIOC29 or permission of
	instructor
BIOC37F	Plant Structure and
DIOCO, I	Development: Cells and
	Tissues
	Prerequisite: BIOA03
BIOC38S	Plant Structure and
DIOCSOS	Development: Organs
	Prerequisite: BIOA03,
	BIOC37 or permission of
	instructor
BIOC46S	Plant Population Ecology
D10C403	Exclusion: BOT330H
	Prerequisite: BIOB12
BIOC48F	Molecular Physiology of the
DIOC46F	Bacterial Cell
	Prerequisite: BIOB02
BIOC52F	Animal Behaviour
BIOC32F	Prerequisite: BIOA03
BIOC64F	
DIUC04F	Alpine and Desert Field
	Ecology
	Prerequisite: BIOB12 or permission of instructors
BIOC70F	Theoretical Foundations of
BIOC/UF	
	Biology I
	Exclusion: (BJPC70F),
	PHLB70
DIOCTIC	Prerequisite: BIOA03
BIOC71S	Theoretical Foundations of
	Biology II
	Exclusion: (BJPC71S)
	Prerequisite: PLIC70
	(BJPC70)

Chemistry

Discipline Representative: A. Walker (287 - 7225)Coordinator of First Year Studies in Chemistry: A. Verner (287-7224) Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool for developing and handling the resources of our contemporary society. The Chemistry Handbook outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities. A sound knowledge of the fundamental

concepts of chemistry is useful to any student in the Physical or Life sciences.

The basic course in chemistry is CHMA02Y which must be taken by those who wish to take further chemistry courses or who require chemistry for another science.

Completion of CHMA02Y permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry, Analytical Chemistry, Physical Chemistry and Organic Chemistry. Thereafter, one can proceed to advanced-level courses at the C and D level.

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

To Enter St. George Series	Complete Scarborough Courses
420	CHMA02Y; CHMB22Y;
	CHMC22F; CHMC26F
430	CHMA02Y; CHMB11Y;
	CHMB33Y; CHMC33S;
	CHMC36S
440 (except 447)	CHMA02Y; CHMB44Y;
, ,	CHMC44Y

NOTE: TIMETABLING CONSTRAINTS USUALLY PRECLUDE SCARBOROUGH C-LEVEL AND ST. GEORGE 400-LEVEL COURSES BEING TAKEN IN THE SAME YEAR.

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYA01Y early in their programmes. Thus, the suggested first-year programme in Chemistry includes CHMA02Y, MATA26Y and PHYA01Y.

Completion of a Specialist or Major Programme in Chemistry can lead to a number of career opportunities in industry, research, teaching, and government. Students who are interested in these Programmes are urged to consult with the supervisors early in their academic careers.

Please refer to the Physical Sciences section of the Calendar for the following programmes.

Specialist Programme in Chemistry

Specialist Programme in Chemistry and Biochemistry

Specialist Programme in Environmental Chemistry

Major Programme in Chemistry

Major Programme in Biochemistry

Specialist Programme in Chemical Physics

The Specialist Programme in Chemical Physics is no longer offered. Students currently registered will be allowed to complete it.

CHMA02Y General Chemistry

Telephone ID #: 02810263 Nuclear chemistry, atomic and molecular structure, ionic solids, bonding in organic compounds; states of matter and equations of state; thermo-chemistry; chemical equilibrium in the gas phase and in solutions; reaction kinetics.

The course includes the quantitative description of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds based on Lewis structures, VSEPR and simple molecular orbital theory. Reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Time permitting, descriptive topics such as introductory organic chemistry are used to round out the course. Two lectures per week and one four-hour laboratory every second week. Exclusions: CHM135, 136, 150 Prerequisite: OAC Chemistry (or Grade 12 Chemistry and permission of instructor); OAC Calculus. Corerequisite: NONE: But MATA26Y is

strongly recommended and is required for some higher level chemistry courses. Session: Winter Day

CHMB11Y Analytical Chemistry

Telephone ID #: 02821163 An introduction of the principles and methods of chemical analysis and to provide practical experience in the techniques employed in a chemistry laboratory.

The course consists of two main divisions: classical wet quantitative analysis and modern instrumental analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques. One hour of lectures and six hours of laboratory per week. Exclusion: (CHMB02Y), CHM219, 268,

Prerequisite: CHMA02Y

Other recommended courses: CHMB33Y

Session: Winter Day

CHMB22Y Introductory Physical Chemistry

Telephone ID #: 02822263 Introduction to physical chemistry, including thermodynamics, elementary statistical mechanics and chemical kinetics. The course starts with the application of the basic laws of thermodynamics to a variety of chemical problems. Topics covered include spontaneous processes, chemical and phase equilibria, properties of solutions and electrochemistry. Further course topics are: the kinetic theory of gases, statistical mechanics of simple model systems, elementary chemical kinetics and theories of chemical bonding.

Exclusion: (CHMB03Y), CHM222 Prerequisite: CHMA02Y, MATA26Y, PHYA01Y

Corequisite: MATB41F and MATB42S are strongly recommended but not required. However note prerequisites for CHMC22F Session: Winter Day

CHMB33Y Inorganic Chemistry I Telephone ID #: 02823363

The ideas of structure and bonding of atoms, molecules and ionic lattices introduced in CHMA02Y are further developed and applied to the rich variety of structures of inorganic solids. The same ideas provide a framework to account for the reactions of these substances - namely acid-base and redox reactions. These concepts are used to rationalize the descriptive chemistry of the elements, particularly those of the s- and pblocks. The structure and properties of the d-metal complexes are introduced as a special case of acid- base interactions. Two one hour lectures per week. Exclusion: (CHMB01Y), CHM239, 339

Prerequisite: CHMA02Y Session: Winter Day

CHMB44Y Organic Chemistry I

Telephone ID #: 02824463 The chemistry of the principal functional groups encountered in aliphatic and

aromatic compounds, interpreted in terms of

reactivity, stereochemistry and reaction mechanisms. An introduction to organic spectroscopy will also be given.

The fundamentals of organic chemistry, including aliphatic and aromatic chemistry and an introduction to the chemistry of biologically important molecules such as proteins and carbohydrates. Two lectures

per week and a four hour laboratory every second week.

Exclusion: (CHMB05Y), CHM240, 249, 268, 269

Prerequisite: CHMA02Y Session: Winter Day

CHMC22F Advanced Physical Chemistry

Telephone ID #: 02832233

This course is a continuation of CHMB22Y. Further topics in physical chemistry are treated, including molecular spectroscopy, topics in statistical mechanics and advanced topics in kinetics. The spectroscopy portion will primarily be concerned with the use and interpretation of various techniques (IR, UV/VIS, NMR, etc.). Both equilibrium and non-equilibrium statistical mechanics will be discussed, through calculation of partition functions for model systems (equilibrium) and treatment of diffusion and other transport properties, as well as the effects of noise (nonequilibrium). The advanced kinetics portion will cover oscillatory reactions, with examples drawn from chemistry, biochemistry and ecology. The approach of this course is more theoretical than that of CHMC25S.

Exclusion: (CHMC02Y)

Prerequisite: CHMB22Y, MATB41F,

MATB42S

Session: Winter Day

CHMC25S Environmental Physical Chemistry

Telephone ID #: 02832553 This course treats physical chemical topics of environmental and ecological importance, including colloidal and interfacial chemistry, atmospheric chemistry and large scale physical and chemical transport processes. Collidal chemistry deals with thermodynamic stability and phase equilibria in colloids. Atmospheric chemistry treats the chemical kinetics and photochemistry of the atmosphere, especially as these relate to pollution and ozone depletion mechanisms. Transport properties such as percolation and diffusion are treated in an environmental setting. This course has a

more applied approach than that of CHMC22F.

Prerequisite: CHMB22Y Session: Winter Day

CHMC26F Experimental Physical Chemistry

Telephone ID #: 02832633 This course provides an introduction to modern techniques in physical chemistry, through experimentation and computer simulation. Computer modelling

experiments will examine time-dependent phenomena such as complex and oscillatory chemical reactions, noise-driven processes and simple bifurcation theory, as well as simple trajectory studies of reaction kinetics and electronic structure calculations. "Real" experiments on kinetics and thermodynamics will illustrate the topics covered in the lecture courses (CHMB22Y, C22F and C25S), with some emphasis on environmental systems. Exclusion: (CHMC02Y), CHM268, 269, 368, 369

Prerequisite: CHMB22Y Corerequisite: CHMC22F Session: Winter Day

CHMC33S Inorganic Chemistry II Telephone ID #: 02833353

The objective is to rationalize the structure, bonding, spectra and reactions of transition metal complexes. The introduction to this subject in CHMB33Y is expanded to include the analysis of the electronic spectra of complexes, reaction mechanisms of d-block complexes, organometallic chemistry, and catalysis.

Two hours of lecture per week.

Exclusion: (CHMC01Y), CHM239, 339

Prerequisite: CHMB33Y Session: Winter Day

CHMC35F Environmental Inorganic Chemistry

Telephone ID #: 02833533

This is a study of the sources, reactions and fates of chemical species in the water, soil and air. Topics include the aqueous chemistry of important elements, redox equilibria, coordination complex formation, the role of essential and trace elements in biological systems, catalysis by microorganisms, water pollution, treatment and analysis, soil chemistry and atmospheric chemistry. Much of the chemistry is rationalized in terms of concepts of structure and bonding introduced in CHMA02Y and CHMB33Y. Chemical transport and other physical

aspects are covered in CHMC25S. Prerequisite: CHMB11Y, CHMB33Y or by permission of instructor. Session: Winter Day

BIOC35Y Introductory Biochemistry

Telephone ID #: 01333563 An introductory course for students interested in the bio-medical sciences, designed to introduce students to a broad range of biochemical topics. Topics covered in the course will include: metabolism of sugars, amino acids and lipids and the relationship of these to the energy metabolism of the cell. The effect of hormones on cellular metabolism: structure and function of enzymes; structure and biosynthesis of nucleic acids; biosynthesis of proteins. Regulation and integration of metabolic pathways will be discussed. Two one-hour lectures per week. The text used is: Biochemistry by L. Stryer, W.H. Freeman & Co. Publishers

Exclusions: (JBCC35Y), BCH320, 321 Prerequisite: BIOA03Y; (CHMB05Y) beginning in 1992-93: BIOA03Y;

CHMB44Y

Session: Winter Day

BIOC36H Laboratory in Biochemistry

Telephone ID #: 01333643

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. Exclusions: (JBCC36H), BCH370, 371

Prerequisite: BIOA03Y; (CHMB05Y) beginning in 1992/93: BIOA03Y:

CHMB44Y Corerequisite: JBCC35Y Session: Winter Day

CHMC36S Inorganic Chemistry Laboratory

Telephone ID #: 02833653 Synthetic techniques as applied to inorganic compounds, both main group and transition metal examples, including some organometallic complexes. This course is meant to complement both CHMB33Y and CHMC33S by illustration of the theoretical concepts presented in those two courses through primarily synthetic experiments. Characterization of the products obtained will be done by both classical and

instrumental methods, primarily infrared spectroscopy. The laboratory meets one day each week in the spring term for 6 hours. Exclusion: (CHMC01Y), CHM268, 269, 368, 369

Prerequisite: CHMB33Y Corerequisite: CHMC33S

CHMC44Y Organic Chemistry II Telephone ID #: 02834463

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 techniques and newer synthetic methods.

Two lectures and one three hour

laboratory every week. Exclusion: (CHMC03Y-), CHM349, 368,

Prerequisite: CHMB44Y Session: Winter Day

CHMD33S Special Topics in Inorganic Chemistry

Telephone ID #: 02843353 A selection of topics in inorganic chemistry. Recent developments are emphasized. The content of the course varies from year to year, so students should consult with the faculty members involved as to the specific areas to be covered in a given year.

This course provides an introduction to current research areas and their theoretical and practical importance in inorganic chemistry. The emphasis will be on inorganic, but a good background in organic and physical chemistry is useful. Two lectures per week. Exclusion: (CHMD48S) Prerequisite: CHMC33S

Session: Winter Day Not offered 1992-93

CHMD34S Special Topics in Organometallic Chemistry and Catalysis Telephone ID #: 02843453

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 CHMD33S. 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. Two lectures per week. Exclusion: (CHMD52S) Prerequisite: CHMC33S Session: Winter Day

CHMD42S Special Topics in Physical Organic Chemistry

Telephone ID #: 02844253 A selection of topics dealing with kinetics, equilibria, and mechanisms of organic reactions, and the structure and properties of organic molecules and reactive intermediates. Recent developments are emphasized. The course is usually offered in alternate years, and the topics covered vary, so students should consult with the faculty in organic chemistry as to the specific topics to be covered in a given year. Exclusion: (CHMD49S), CHM443H Corerequisite: CHMC44Y Session: Winter Day Not offered 1992-93

CHMD44S Special Topics in Synthetic Organic Chemistry

A selection of topics in synthetic organic chemistry. A survey of modern synthetic methods will be emphasized, and some application to the synthesis of particular systems of interest will be included. Two lectures per week. Exclusion: (CHMD51S) Corerequisite: CHMC44Y Session: Winter Day

CHMD88Y Introduction to Research

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

The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research. Exclusion: (CHMD46Y), CHM418, 428, 439, 449

Prerequisite: Permission of instructor Corerequisite: One of the advanced laboratory courses at St. George (CHM438F or CHM448F) (except for students undertaking a project in physical chemistry). Normally only for students following one of the Chemistry Programmes.

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

CHMD90Y Library Thesis

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

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

Exclusion: (CHMD45Y) (CHMD47F/S/H) CHMD91H

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

CHMD91H Library Thesis

Similar to CHMD90Y but representing 130 hours of work.

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

Exclusion: (CHMD47F/S/H) (CHMD45Y) CHMD90Y

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

Classical Studies

Discipline Representative: I.R. McDonald Classical Studies introduces the student to the Greek and Roman World, its languages and literature, history and religion. Courses in Classics (CLA) and Greek and Roman History (GRH) present ancient texts and other source material in translation, while courses in Greek and Latin provide an opportunity to learn the languages and to study the texts in the original.

Major Programme in Classical Studies Supervisor: I.R. McDonald

For the Major Programme in Classical Studies students must complete eight fullcourse equivalents to be selected as follows:

1 CLAA01Y Classical Civilization 2 CLAA02Y Greek and Roman Mythology

3 Two full-course equivalents from: GRHB01Y, GRHB04Y, GRHC24F/S, GRHC25Y, GRHC29Y. CLAB32F/S, CLAB33F/S

4 Two full-course equivalents from: CLAC03Y, CLAC04Y, LATA01Y, LATB02F, LATB11S. LATC30-40, GRKA01Y, GRKB02F, GRKB11S, GRKB10Y, GRKB23F, GRKC22Y, GRKC23F/S, GRKC24F/S, GRKC30-40

5 One full-course equivalent from: CLAC21Y, CLAC23F/S, PHLB40F/S, PHLB42F/S. PHLC40F/S, PHLC42F/S

6 One half course from: FARA10F/S, FARB04F/S, FARB05F/S

7 One half course from: CLAC01F/S, CLAC02F/S

Minor Programme in Classical Studies Supervisor: I. R. McDonald

The Minor Programme in Classical Studies offers a limited but coherent curriculum in Classical studies for students interested in studying the Greek and Roman world while pursuing a more wide ranging course of studies in a number of related disciplines.

For the Minor Programme in Classical Studies, students must complete four fullcourse equivalents to be selected as follows:

1 CLAA01Y Classical Civilization CLAA02Y Greek and Roman Mythology

- 2 GRHB01Y or GRHB04Y
- CLAC03Y or CLAC04Y
- One other full-course equivalent from CLA or GRH or GRK or LAT

Minor Programme in Modern Greek Supervisor: G. Kirikopoulos (287-7135) The Minor Programme in Modern Greek introduces students to the broad range of modern Greek culture in its historical context (literature, film, theatre, music) with special attention to the study of the Greek language against the background of classical Greek civilization.

For the Minor Programme in Modern Greek, students must complete four fullcourse equivalents, to be selected as follows:

- 1 CLAA01Y Classical Civilization CLAA02Y Greek and Roman Mythology
- 2 GRKB10Y
- Two other full-course equivalents from: GRKB23F, GRKC22Y, GRKC23F, GRKC24S

CIAA01Y Classical Civilization

Telephone ID #: 03010163 An introduction to the Greco-Roman World: the achievements of the Greeks and Romans in literature, philosophy, science, and government.

These achievements will be set in an historical framework to enable the evolution of ideas to be traced. The course will not merely be a survey course. Provision has been made as well for study in greater depth in carefully selected areas. with readings, in translation, from the classical authors. Exclusion: CLA130 Session: Winter Day A. Boddington Offered 1993/94 and 1994/95

CLAA02Y Greek and Roman Mythology Telephone ID #: 03010263

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.

Exclusion: (HUMA11), CLA205 Session: Winter Day

Offered 1993/94 and 1994/95

CLAB10S Greek and Latin for Scientists Telephone ID#: 03021053

An examination of the role of Greek and Latin in the formulation of technical terms in the science disciplines.

The course aims to provide the student who has no previous knowledge of classical Greek or Latin with the ability to determine the meaning of scientific words by analysing their structure, to increase his/her range and comprehension of technical vocabulary, to acquaint him/her with the principles of scientific word formation, and to help him/ her develop sound nomenclatural practices. Topics will include: characteristics, rules, and codes of scientific nomenclature; Latin and Greek roots, affixes, combining forms, and inflectional patterns; transliteration and pronunciation; malformations, misnomers, and hybrids. Particular emphasis will be placed on the biological and medical sciences.

Exclusion: CLAB11 Session: Winter Day I. R. McDonald Not offered 1993/94 Offered 1994/95

CLAB32F The Age of Nero

Telephone ID#: 03023233

Nero's Rome, as it is reflected in the art, architecture, and literature of the day, and in the accounts of later Roman authors.

The course provides an introduction to Imperial Rome, a controversial Emperor, and the striking cultural milieu over which he claimed to preside. It asks what ideas are expressed in Neronian arts; how far the Emperor controlled their expression; and how far the culture (or counterculture) of the court shaped, or was shaped by, the forces of a largely bicultural Empire. A lecture format will be adopted, with frequent use of slides and some opportunity for discussion. Exclusion: (HUMB24), CLA351 Session: Winter Day I.R. McDonald Not offered 1993/94 Offered 1994/95

CLAC01F Selected Topics in Classical Literature

Telephone ID#: 03030133

A detailed study of an author or a genre in Classical Literature in translation. Prerequisite: One full-course equivalent in

CLA or another literature. Session: Winter Day TBA

Not offered 1993/94 Offered 1994/95

CLAC02S Selected Topics in Classical Civilization

Telephone ID #: 03030253 For 1992/93 the course will study education in the ancient world in the various periods from 5th century B.C. Greece to imperial Rome. Particular emphasis will be placed on the curriculum, types of schools, and educational facilities, with special focus on the goals and ideals of education. Basic text will be H.I. Marrou, A History of Education in Antiquity. We shall also study (in translation) a number of passages dealing with education from such authors as Plato, Isocrates, Cicero, and Quintilian. Prerequisite: One full-course equivalent in CLA or GRH or permission of the Instructor.

Session: Winter Day TBAOffered 1993/94 Not offered 1994/95

CLAC04Y Greek and Roman Tragedy

Telephone ID#: 03030463

An exploration of the nature and intent of classical tragic drama, its conventions, historical origins, and cultural context.

The course introduces students to the drama of Aeschylus, Sophocles, Euripides, and Seneca. Its objective is to foster an appreciation of the originality and power of ancient tragedy and its influence on the imagination and literature of the western world. The greater part of the course will focus on the individual plays of Aeschylus, Sophocles, and Euripides. Insight into ancient perspectives on the nature of tragedy will be sought through reading and discussion of Aristophanes' Frogs, and Aristotle's *Poetics*. Selections from Seneca's Roman tragedies will then be studied.

No knowledge of Greek or Latin or of

the classical world is assumed. Exclusions: DRAB14, (CLAB02); CLA100, Prerequisite: CLAA01 or one full-course equivalent in English or another literature Session: Winter Day

I. R. McDonald Not offered 1993/94 Offered 1994/95

CLAC06F Women in Ancient Greece

Telephone ID #: 03030633

A study of women in Greece from the time of Homer to the fourth century B.C.

The course will consider the role of women and the attitude of society toward them in this period, and will study what we know of women in ancient Greek society, in order to discover their position in society, their rights, their functions, and attitudes towards them. We shall consider women in Homeric epic, tragedy and comedy. Women in Athens will be contrasted with women in Sparta. Non-citizen women will be compared to citizen women. Reading in translation will include selections from Homer, Hesiod, the lyric poets, the historians, philosophers and dramatists. One two-hour meeting each week; lecture followed by discussion.

Exclusion: (HUMB61)(HUMC61) Prerequisite: WSTA01 or one course in CLA

Session: Winter Day

E. Irwin

Not offered 1993/94 and 1994/95

CLAC21Y Greek and Roman Religion

Telephone ID #: 03032163

A study of religion in the Greek and Roman

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

Exclusion: (CLAB21)

Prerequisite: CLAA01 or CLAA02

(HUMA11)

Session: Winter Day J. H. Corbett Not offered 1993/94 Offered 1994/95

Greek and Roman History

GRHB01Y Greek History from the Bronze Age to the Death of Alexander

Telephone ID #: 07120163

An introduction to political, economic, social, and cultural aspects of Greek history.

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

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

To consider how the Greeks viewed their own history, we shall study the Persian Wars as seen through the eyes of Herodotus, and the Peloponnesian War as interpreted by Thucydides; and at all times we shall endeavour to pay the Greeks the compliment of trying to see them as they really were and not as we imagine them. Exclusion: CLA240 Session: Winter Day A. Boddington Not offered 1993/94

GRHB04Y The Roman World

Telephone ID #: 07120463

Offered 1994/95

An introduction to the Roman World. The course will study the origins and rise of Rome in its natural and social contexts. Special attention will be given to the Roman army and the social and political system which supported it, the economic basis of the Roman state and the social and economic impacts of Roman expansion, especially as evidenced in slavery, agricultural development and urban life. It will be the objective of this course (i) to broaden the student's awareness of the major phases of Roman history and the major social and economic structures supporting the Roman state and (ii) to suggest how the distinctive experience of Rome is fundamental to our understanding of the later history of the Western World. Exclusions: GRHB02Y, GRHB03Y, CLA231, CLA351

Session: Winter Evening J.H. Corbett Not offered 1993/94 Offered 1994/95

GRHC25Y Political and Social Life in Classical Athens (500-300 B.C.)

Telephone ID #: 07132563

A study of the political, economic, social, and cultural life of Classical Athens, including some consideration of the other leading states of Greece.

The course provides more advanced study of issues and problems considered in GRHB01Y. The period will be studied, as far as possible, from the Greek authors (in translation).

The choice of topics to be studied will depend to some extent on the interests and qualifications of the students. Prerequisite: GRHB01 or any related GRH.

Session: Winter Day A. Boddington

Not offered 1993/94 or 1994/95

Greek

GRKB02F Introduction to Greek Authors

Telephone ID #: 07220233 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. Exclusion: (GRKA10), GRK215 Prerequisite: GRKA01 or OAC Greek or Grade 13 Greek

Session: Winter Day W. Helleman Not offered 1993/94 Offered 1994/95

GRKB10Y Intermediate Modern Greek

Telephone ID #: 07221063 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: GRKA05 unless the student is a native speaker of the language

Exclusion: GRK245 Session: Winter Day G. Kirikopoulos Offered 1993/94 and 1994/95

GRKB11S Plato: Apology

Telephone ID #: 07221153 A study of the Apology, Plato's version of Socrates' defence in court against the charges of religious non-conformity and of corrupting the young.

The text will be read in Greek. The political, legal, and social situation in Athens at the time of the trial will be considered.

Exclusion: (GRKB01), GRK210 Prerequisite: GRKB02 (GRKA10)

Session: Winter Day E. Irwin Not offered 1993/94 Offered 1994/95

GRKB23F Modern Greek Music

Telephone ID #: 07222333

An examination of modern Greek music as a social and cultural phenomenon as well as a musical one, with attention paid to the main forms, movements and composers of the last seventy years.

After briefly considering ancient sources and the character of Byzantine music, the course will cover demotic (folk) songs, the contribution of Asia Minor, urban rebetiko, the golden years of the Sixties and Seventies, the varied perspectives of the Eighties and finally, contemporary experimental music. The modern Greek heritage of musical instruments and elements of musical design such as rhythm and dromoi (or scales) will be illustrated through a variety of compositions and brief comparison to European and Middle Eastern traditions.

No previous musical experience is required. The course is given in English; students enrolled in a Modern Greek Minor Programme are, however, expected to do their written work in Greek. Session: Winter Day S. Mittler Not offered 1993/94 Offered 1994/95

GRKC23F Modern Greek Cinema and Theatre

Telephone ID #: 07232333 An examination of the development of

Greek theatre and film from World War II to the present.

Students seeking certification in Classical Studies with Modern Greek will be expected to do their written work in Greek. The course is open to students with no previous knowledge of the Greek language, who will do their written work in English. Prerequisite: GRKB10Y or CLAA01Y or any related course in Greek or Cinema or Drama.

Session: Winter Day G. Kirikopoulos Not offered 1993/94 Offered 1994/95

GRKC24S Classical Themes in Modern Greek Literature

Telephone ID #: 07232453

A broadly representative study of the way in which the myths, history, and people of

classical Greece are reflected in the literature of modern Greece.

Students seeking certification in Classical Studies with Modern Greek will be expected to do their written work in Greek. The course is open to students with no previous knowledge of the Greek language, who will do their written work in English. Prerequisite: GRKB10Y or CLAA01Y or any related course in GRK, CLA, or GRH Session: Winter Day G. Kirikopoulos Not offered 1993/94 Offered 1994/95

GRKC30-34F GRKC35-39S

GRKC40Y Supervised Reading

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

Students who wish to enter the Greek Supervised Reading Programme should enrol in any of the above courses. They should then contact the co-ordinator and discuss what they want to read and with whom. (This will depend to some extent on time available.) The student will meet regularly with the tutor - the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. Problems in the text will be discussed as well as the literary qualities and cultural context of the work being studied. Exclusion: (GRKB30-35, GRKB35-39, GRKB40), GRK428 Prerequisite: GRKB11(GRKB01) or demonstrated competence in reading classical Greek Session: Winter Day Co-ordinator: I.R. McDonald Offered 1993/94 and 1994/95

Latin

LATA01Y Introductory Latin

Telephone ID #: 19810163 An introduction to the essentials of the Latin language.

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

Classes are designed to introduce fundamentals of vocabulary, grammar, and syntax, but this routine will be varied occasionally to allow for lectures. discussions, and slides to increase awareness of the cultural milieu. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature. Exclusion: OAC Latin or Grade 13 Latin.

except by permission of the Division, LAT100, LAT200 Session: Winter Day I. R. McDonald Not offered 1993/94 Offered 1994/95

LATC30F-34F LATC35S-39S

LATC40Y Supervised Reading

Students who wish to take Latin Supervised Reading courses should enrol in any of the above courses (F/S/Y as appropriate). They should then contact the co-ordinator and discuss with him what they want to read and with whom. The student will be expected to read much of the material on his or her own, and to meet with the tutor once a week. normally for a two-hour period; exact arrangements will depend on the nature of the text and level of ability of the student. The purpose of these sessions is to sort out any problems of comprehension and to discuss the literary qualities and cultural context of the work being read. Exclusion: (LATB30-34, LATB35-39, LATB40), LAT428 Prerequisite: LATB11 (LATB01) Co-ordinator: I.R. McDonald Session: Winter Day Offered 1993/94 and 1994/95

Courses Not Offered in 1992/93

Classics

CLAB11F/S The Classical Element in

English Exclusion: CLAB10 Offered 1993/94

Not offered 1994/95 CLAB33F/S The Age of Homer

> Exclusions: (HUMB25), CLA215, CLA225 Offered 1993/94 Not offered 1994/95

Greek and Roman Epic CLAC03Y Exclusion: (CLABO1);

CLA100, CLA215, CLA225

Prerequisite: CLAA01Y or one course in English or another literature Offered 1993/94 Not offered 1994/95

CLAC23F/S Christianity in the Greco-

Roman World Exclusion: (CLAB23) Prerequisites: CLAA01 or Permission of the Instructor Offered 1993/94 Not offered 1994/95

Greek and Roman History

GRHC24F/S Ancient Historiography

Exclusion: CLA216, CLA217, CLA270 Not offered 1993/94 or 1994/95

GRHC29Y

The Romanization of Western Europe 200 BC -

AD 400

Prerequisite: GRHB04Y or any related GRH or CLA course

Not offered 1993/94 or

1994/95

Greek

GRKA01Y

Introductory Greek Exclusion: OAC Classical Greek or Grade 13 Classical Greek, except by permission of the Division, GRK100 Offered 1993/94 Not offered 1994/95

GRKC22Y

Images of Modern Greece: 1930 to the Present Exclusion: (GRKB22) **GRK250**

Prerequisite: GRKB10 or permission of instructor Offered 1993/94 Not offered 1994/95

Latin

LATB02F

Introduction to Latin Authors Exclusion: LATA10, LAT200, LAT216 Prerequisite: LATA01 or OAC Latin or Grade 13 Offered 1993/94

LATB11S

Not offered 1994/95 Catullus Exclusion: (LATB01); LAT215 Prerequisite: LATB02 (LATA10) Offered 1993/94 Not offered 1994/95

Cognitive Science

Supervisor: Ron Smyth (287-7171) Cognitive Science is the study of knowledge - how human beings, other animals, and even machines acquire knowledge, organize and store that knowledge, and use that particular knowledge to solve problems. Cognitive scientists are particularly interested in the way we use symbolic systems, such as natural or computer languages, drawing, or mathematical notation, to organize our knowledge of the world. Cognitive Science considers questions like: Are we born with some knowledge already in place? How does our experience of the world allow us to develop knowledge? How does the knowledge we already have affect our experience of the world? Is knowledge stored as visual images, words, or abstract propositions? How do we decide which pieces of information are relevant to a specific problem? How do we master and store the complicated system of rules that allows us to use language? How do language and culture affect our understanding of the world? How is the knowledge stored in a computer like and unlike the knowledge stored in our heads?

Researchers in philosophy and psychology, linguistics, computer science and anthropology all use different methods to investigate these questions and have all provided part of the answers. The Cognitive Science Programmes (Specialist and Major) include courses from all these disciplines-from the humanities and the sciences at both the theoretical and the practical level.

The Faculty of Education, University of Toronto, considers four year graduates of the Specialist Programme in Cognitive Science to have an excellent preparation for application to the Primary Junior Division of the Bachelor of Education Programme. Applicants should have an overall 70% average and appropriate experience.

The Specialist Programme requires thirteen courses; the Major Programme requires eight courses.

Note: Students intending to take COGB01Y in 1992/93 should consult the Programme Supervisor for advice on alternative courses.

Specialist Programme in Cognitive Science Supervisor: Ron Smyth (287-7171) * Students should check prerequisites/corequisites/exclusions for

these courses.

Required Cour	
Seven full-cou	ırse equivalents:
PSYA01Y	Introduction to Psychology
LINA01Y	General Linguistics
PHLA01Y	Fundamental Questions of
	Philosophy
CSCA06S	Computer Basics
or	Computer Basies
CSCA58F/S*	Introduction to Computing
	Introduction to Computing
COGB01Y*	Elements of Cognitive
BONDOTE	Science
PSYB07F/S	Data Analysis in
DOMD SERVE	Psychology
PSYB57F/S*	Memory and Cognition
PHLB20F/S	Belief, Knowledge and Truth
PHLB81F/S	Theories of Mind
PLIB55F/S*	Psycholinguistics
Optional Cour	rses
Psychology	
Two full-cours	se equivalents chosen from the
following, to i	nclude either PSYB50F/S or
PSYB51F/S of	r both:
PSYB10F/S*	Introduction to Social
	Psychology
PSYB20F/S*	Introduction to
	Developmental Psychology
PSYB50F/S*	Sensation and Perception
PSYB51F/S*	Perception and Cognition
PSYB65F/S*	Human Brain and Behaviour
PSYC08F/S*	Experimental Design in
F3 FC00173	
PSYC26S	Psychology Davelonmental Psychology
F31C203	Developmental Psychology Laboratory
PSYC34F/S*	
131034173	Psychometric Methods Laboratory
PSYC54F/S*	Cognition and
131034173	_ ·
PSYC85F/S*	Representation
PSYD34S	History of Psychology Human Intelligence
PSYD50F/S*	Current Topics in Memory
DOVDE2E/C*	and Cognition
PSYD53F/S*	Psychology and the Law Supervised Study in
COGC91F/S*	Supervised Study in
* • • •	Cognitive Science
Linguistics	
I wo full-cours	e equivalents chosen from the
following:	
LINB01Y*	Practical Language Analysis
LINB09F/S*	Phonetics: The Study of
	Speech Sounds
LINC02F/S*	Phonology
LINC11Y*	Syntax
LINC12F/S*	Semantics: The Study of
	Meaning
LINC14F/S*	Pragmatics: The Study of
	Language Use
LINC25F/S*	Second Language Learning
LINC26F/S*	Second Language Teaching
PLIC24F/S*	Developmental
	Psycholinguistics
PLID55F/S*	Disorders of Speech and
	Language
	5 5

COGC92F/S*	Supervised Study in
	Cognitive Science
Philosophy an	d Theoretical Psychology
	e equivalent chosen from the
following:	•
COGD10F/S*	Supervised Study in
	Cognitive Science
PHLB15F/S	Philosophy of Education
PHLB20F/S	Belief, Knowledge, and
1113023170	Truth
PHLB48F/S	Philosophy in the Late
1112240170	Modern Age
PHLB50F/S	Symbolic Logic I
PHLB70F/S*	Philosophy of Science
PHLB80F/S	Philosophy of Science Philosophy of Language
PHLB81F/S	Theories of Mind
PHLC48F/S	
FHLC46173	Philosophy in the Late
PHLC50F/S	Modern Age II
	Symbolic Logic II
PHLC52F/S	Modal Logic and Probability
PHLC54F/S	Metalogic
PSYC82F/S*	Theoretical Psychology
PSYD80F/S*	Current Topics in
G: 4 G	Theoretical Psychology
Cognate Cours	ies
One full-course	e equivalent chosen from the
following:	
CSCA68F/S*	Computer Applications
CSCB38F/S*	Discrete Mathematics for
	Computer Science
CSCB58F/S*	Computer Organization
	e in Anthropology at the B-
level or higher	•
Major Program	me in Cognitive Science
Supervisor: R	on Smyth (287-7171)
* Študents shot	uld check
prerequisites/c	orequisites/exclusions for
these courses.	
Required Cours	es
Four full-cours	
PSYA01Y	Introduction to Psychology
LINA01Y	General Linguistics
COGB01Y*	Elements of Cognitive
	Science
PLIB55F/S*	Psycholinguistics
PSYB57F/S*	Memory and Cognition
Optional Cours	
Psychology	
	ilf full-course equivalents
chosen from th	e following, to include either
PSYB50F/S or	PSYB51F/S or both:
DCVD10E/C*	Introduction to Cocial

PSYB10F/S* Introduction to Social

PSYB20F/S*

PSYB50F/S*

PSYB51F/S*

PSYC08F/S*

PSYC34F/S*

Psychology

Psychology

Laboratory

Introduction to

Developmental Psychology

Sensation and Perception

Perception and Cognition

Experimental Design in

Psychometric Methods

PSYC54F/S*	Cognition and	
	Representation	
PSYC85F/S*	History of Psychology	
PSYD50F/S*	Current Topics in Memory	
	and Cognition	
COGC91F/S*	Supervised Study in	
	Cognitive Science	
Linguistics	· ·	
	alf full-course equivalents	
chosen from the		
LINB01Y*	Practical Language Analysis	
LINB09F/S*	Phonetics: The Study of	
	Speech Sounds	
LINC02F/S*	Phonology	
LINC11Y*	Syntax	
LINC12F/S*	Semantics: The Study of	
	Meaning	
LINC14F/S*	Pragmatics: The Study of	
	Language Use	
LINC25F/S*	Second Language Learning	
LINC26F/S*	Second Language Teaching	
PLIC24F/S*	Developmental	
	Psycholinguistics	
PLID55F/S*	Disorders of Speech and	
	Language	
COGC92F/S*	Supervised Study in	
	Cognitive Science	
Cognate Cours	ses	
One full-course equivalent chosen from the		

following: PHLB15F/S Philosophy of Education

Belief, Knowledge and Truth

PHLB20F/S

PHLB48F/S Philosophy in the Late Modern Age PHLB50F/S Symbolic Logic I PHLB70F/S* Philosophy of Science PHLB81F/S Theories of Mind PHLC48F/S Philosophy in the Late Modern Age II PHLC50F/S* Symbolic Logic II PHLC52F/S Modal Logic and Probability PHLC54F/S Metalogic PSYC82F/S* Theoretical Psychology PSYD80F/S* Current Topics in

Theoretical Psychology CSCA02F/S How Computers Are Used CSCA06S Computer Basics CSCA58F/S* Introduction to Computing

COGD10F/S* Supervised Study in Cognitive Science

COGC91F/S/H COGC92F/S/H COGD10F/S/H Supervised Study in Cognitive Science

Supervised reading or research project. These courses provide an opportunity to pursue advanced study in a specialized area following the appropriate scheduled courses and in close consultation with the supervisor. They are not intended as a

substitute for scheduled advanced courses. A written report or paper is normally required. Prerequisites: Three FCEs at the B or C level in COG and/or LIN and/or PSY; permission of supervisor. Session: Winter Day TBA

Course Not Offered 1992-93

COGB01Y Elements of Cognitive Science Exclusion: JUP250 Prerequisite: PSYA01, LINA01

Computer Science

Discipline Representative: V. Hadzilacos (287 - 7256)

Computer science is the study of the use of computers to process information. The form of this information may vary widely, from the business person's records or the scientist's experimental results to the linguist's texts. One of the fundamental concepts in computer science is the algorithm -- a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related is the development of tools to foster these goals: programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms.

Theoretical computer science is also concerned with the inherent difficulty of problems that can make them intractable by computers. Numerical analysis, data management systems, computer graphics, and artificial intelligence are concerned with the applications of computers to specific problem areas.

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

Students interested in computer studies should also refer to Specialist and Major Programmes in Cognitive Science.

Please refer to the Physical Sciences section of the Calendar for the following six Programmes.

Specialist Programme in Computer Science

Specialist Programme in Computer Science and Mathematics

Specialist Programme in Computer Science and Physics

Specialist Programme in Computer Science and Statistics

Specialist Programme in Co-op Computer Science and Physical Sciences

Specialist Programme in Physical Sciences

Major Programme in Mathematical Science (Computer Science)

Specialist Programme in Computer Science for Data Management Supervisor: G. Cupit (287-7253) NOTE: Registration in this Programme is limited. A maximum of 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 Calculus. There are thirteen and one- half courses required for the Specialist Programme in Computer Science for Data Management. The courses may be taken in a different order than that listed below, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

CSCA58F, CSCA68S, MATA26Y or (MATA27Y) or (MATA55Y), MATA04Y, MGTA01Y, ECOA02Y

Second year: CSCB28S, CSCB38F, CSCB58F, ECOB03Y or ECOB07Y, both MATB41F and MATB42S or MATB05Y

CSCC24S, CSCC78F, MGTB03 and MGTC06 (MGTB01Y), STAB47S*

* A lower-level statistics course is normally a prerequisite to STAB47S.

Third or fourth year. CSCC64S, 434

Three half-courses to be chosen from the following options. Any one of: CSCC50F, C51S. Any two of: CSCC54F, C85S, 340, 372, 418, 428, 444, 454, 458, 468, 484, 485, 488, including at least one of: CSCC85, 372, 458, 468, 488.

Note that only CSCC50, C51, C54, C64 and C85 are available at Scarborough; the remaining courses must be balloted for and completed at the St. George Campus. Consult the Department of Computer Science Undergraduate Student Handbook. In completing the Programme, a student is discouraged from including any Computer Science courses other than those required above.

The following courses are offered only on the St. George Campus. Consult the Department of Computer Science Undergraduate Student Handbook for more details.

CSC300	Computers and society
CSC318	Computer graphics and
	applications
CSC336	Numerical methods
CSC340	Information systems analysis
	and design
CSC372	Microprocessor software
CSC418	Interactive computer graphics
CSC428	Human-computer interaction
CSC434	Data management systems
CSC438	Computability and logic
CSC444	Economics of computers
CSC446	Computational methods for
	partial differential equations
CSC448	Formal languages and
	automata
CSC454	The business of software
CSC458	Architecture of distributed
	computer systems
CSC465	Programming methodology
CSC468	Operating systems
CSC478	Computer algebra
CSC484	Applied artificial intelligence
CSC485	Introduction to
	computational linguistics
CSC488	Language processors

Major Programme in Computer Science

The Major Programme in Computer Science is no longer offered. Students registered in it will be allowed to complete it.

CSCA02F/S How Computers Are Used

Telephone ID # for CSCA02F: 03710233 Telephone ID # for CSCA02S: 03710253 Parts of a computer and their interconnection. System operations: commands, files, security. Common applications: games, text processing, spreadsheets. Problem solving with computers: algorithms and basic programming concepts. Other applications and topics: data organization, communications, office automation, artificial intelligence, computing in other academic disciplines. (Students will use micro-computers and will do some programming, but the aim of the course is to show how computers are used, not to teach programming.) Primarily for nonscience students, but may be followed by other CSC courses. Exclusion: SMC104H; VIC104H; CSC104; (CSCA04) CSCA06S grade 12 or 13

CSCA06S Computer Basics

Telephone ID #: 03710653

course may not be taken after or

Computer Basics: fundamental concepts and terminology.

computer studies or data processing. This

concurrently with any other CSC course.

Session: Winter Day

Introduction to programming in Turing. Computer use: word processing, spreadsheets, data base packages, communications packages, computer graphics.

Implications for society. (This course is primarily intended for

students not in Physical Sciences, but may also be taken by students in Physical Sciences.)

Exclusion: CSCA02; CSC104

Telephone ID #: 03715753

CSCA57S Introduction to Scientific Computing

An introduction to the use of computers in the physical sciences. Choice and design of algorithms and their implementation in a high level computer language, such as C or FORTRAN, for the solution of problems arising in the physical sciences. Topics will include elementary numerical analysis, such as numerical integration, mathematical modelling of physical systems, data fitting and interpolation. The use of data-base systems for information storage and query and the use of graphical display devices and software for visualization of physical systems will be considered. The use of

computer algebra systems in the physical

sciences will also be considered. (Intended

primarily for physical sciences students who do not plan to pursue any of the Programmes in Computer Science or Cognitive Science.)

Exclusion: CSCA58F, CSC108, 148, 150 Corerequisite: MATA26Y, PHYA01Y

CSCA58F Introduction to Computing Telephone ID #: 03715833

An introduction to algorithms and problem solving with computers. Programming in a high-level language such as Turing, including an introduction to simple data structures, string manipulation, recursion, linked lists, hashing, program correctness, and floating-point calculations. Comparison of several internal sorting algorithms. Brief exposure to machine language programming. (Intended primarily for students who plan to pursue any of the Programmes in Computer Science, or who want a more vigorous treatment of the topic area.) Two hours of lectures and two hours of tutorials per week.

Exclusion: CSCA02, CSCA57, CSC108,

148, 150

Prerequisite: OAC Calculus and OAC

Algebra and Geometry.

Corerequisite: MATA26 or (MATA55) or

(MATA27)

Session: Winter Day

CSCA68S Computer Applications Telephone ID #: 03716853

A continuation of CSCA58. An introduction to the representation and applications of graphs, computer simulation models, artificial intelligence, and numerical methods, including the use of data types such as stacks, queues, trees and heaps. Some exposure to languages such as Fortran, PL/I, and Pascal. Two hours of lectures, and a two-hour tutorial per week. Exclusion: CSC118, 158, 160 Prerequisite: CSCA58, or CSCA57 and permission of instructor Corerequisite: MATA26 or (MATA27)

CSCB09S Software Tools in Unix and C Telephone ID #: 03720953

Introduction to programming in the C language and to the use of programmable command interpreters ("shells") in the UNIX operating system. Practice with UNIX software tools; their strengths and weaknesses.

Exclusion: CSC209 Prerequisite: CSCA68 Session: Winter Day

Session: Winter Day

CSCB28S File Structures and Data Management

Telephone ID #: 03722853

An introduction to techniques for storing, accessing, and managing long-term data in computer systems. Hardware and software aspects of data processing: processors, storage devices, communications, file I/O control. Techniques for organizing and managing files: serial files, direct files, indexed files, multikey files, integrated files, file systems. Introduction to data base management systems with emphasis on relational data base systems.

The COBOL language will be discussed during tutorials. Enrolment limit: 100 Exclusion: CSC228

Prerequisite: CSCA68 Session: Winter Day

CSCB38F Discrete Mathematics for Computer Science

Telephone ID #: 03723833

A rigorous treatment of certain aspects of discrete mathematics with applications to computer science. Emphasis on the basic properties and fundamental algorithms concerning integers (including induction, Euclidean algorithm, modular arithmetic), and on logic (including propositional and predicate calculus and simple formal theories). Application to topics such as program correctness, formal program verification, algorithms from graph theory, and elementary set theory.

Exclusion: CSC238 Prerequisite: CSCA58

Corerequisite: MATA04Y (MATA40)

Session: Winter Day

CSCB58F Computer Organization

Telephone ID #: 03725833

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, assembly language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. There will be four laboratory periods in which students will conduct experiments with digital logic circuits.

Enrolment limit: 100. Exclusion: CSC258 Prerequisite: CSCA58 Session: Winter Day

CSCC24S Principles of Programming Languages

Telephone ID #: 03732453

A wide variety of programming styles and the programming languages that support them. Emphasis on recursion and concurrency; other programming regimes such as backtracking and coroutines. Language features such as pattern matching, programs as data, and module encapsulation. Examples from languages such as Lisp, Concurrent Euclid, Prolog, Smalltalk, and Simula. Enrolment limit: 100.

Exclusion: CSC324

Prerequisite: CSCB38 (strongly recommended: CSCB58)

Session: Winter Day

MATC32F Graph Theory and Algorithms for its Applications

Telephone ID #: 20433233 Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank form scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.

Exclusion: (JMCC32)

Prerequisite: MATB31 (or MATB44 or CSCB38) and at least one other B-level course in mathematics or computer science.

Session: Winter Day

CSCC50F Numerical Algebra and Optimization

Telephone ID #: 03735033 The efficiency and stability of solution techniques for systems of linear equations and least squares problems, including LUand QR-based methods. Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations.

Exclusion: CSC336H, CSC350 Prerequisite: CSCA57 or CSCA58, MATA04Y, MATB41F and MATB42S or

(MATB05Y)

Session: Winter Day

CSCC51S Numerical Approximation, Integration and Ordinary Differential Equations

Telephone ID #: 03735153

Analysis of methods for approximation, integration, and the solution of ordinary differential equations. Emphasis on the convergence and stability properties of the algorithms, rather than on their implementation. Exclusion: ACT323H, CSC336H, (JMCC51), CSC351

Prerequisite: CSCA58 or CSCA57, MATA04Y, MATB41F and MATB42S or

(MATB05Y)

Recommended Preparation: CSCC50

Session: Winter Day

CSCC64S Effective and Efficient Computing

Telephone ID #: 03736453 Measuring algorithm performance. Techniques of efficient algorithm design: divide and conquer, greedy method, dynamic programming, graph traversal, change of representation. Introduction to complexity theory: models of computation, P, NP, polynomial time reduction, NPcompleteness. Introduction to the theory of computation: Church's thesis, computable and uncomputable functions, recursive and recursively enumerable sets, universality, many-one reduction.

Exclusion: CSC364 Prerequisite: CSCB38H Session: Winter Day

CSCC78F Information Structures

Telephone ID #: 03737833 An advanced study of major classes of information structures with an emphasis on the design, analysis, and implementation of non-numerical algorithms, using an abstract data types approach. Advanced topics on linear lists, their implementation, searching and sorting. Trees, tree traversal, tree directories. Sets and graphs, efficient operations, and advanced applications. Relations and the relational algebra. Storage management, allocation, and garbage collection. Exclusion: CSC378

Prerequisite: CSCB28 and CSCB38 Session: Winter Day

CSCC85S Microprocessor Systems Telephone ID #: 03738553 Hardware and software aspects of microcomputers and microprocessors. Instruction sets, addressing modes, memory devices, bus structures. Input/output and interrupt mechanisms. Assembly language and high-level language programming. System and applications software. Laboratory experiments will provide handson experience. Enrolment limit: 45.

Exclusion: ELE385

Prerequisite: CSCB58 or permission of

instructor.

Session: Winter Day

CSCD94H Computer Science Project

Telephone ID #: 03749443

This half-course involves a significant project in any area of computer science. The project may be undertaken individually or in small groups. The course is offered by arrangement with a computer science faculty member, at Scarborough or the St. George

This course is intended for students specializing in computer science. It can be taken as an F or S course in a single term, or as an H course spread over an entire winter or summer session. Projects must be completed by the last day of classes in the term or session the course is taken. Exclusion: CSC494

Prerequisite: Three C-level computer science half- courses, a GPA of 2.50, and permission of the Programme Supervisor. Enrolment procedures: Project Supervisor's note of agreement to be presented to the Programme Supervisor by whom a Special Permission will be issued for registration. Session: Winter Day

CSCD95H Computer Science Project

Telephone ID #: 03749543 Same description as CSCD94H. Normally a student may not take two project halfcourses on closely related topics or with the same supervisor.

If an exception is made allowing a second project on a topic closely related to the topic of an earlier project, higher standards will be applied in judging it. We expect that a student with the experience of a first project completed will be able to perform almost at the level of a graduate student.

Exclusion: CSC495 Session: Winter Day

Courses Not Offered in 1992-93

MATC31F Combinatorics

Prerequisite: MATB44/CSCB38 and at least one other B-level course in Mathematics or Computer Science.

CSCC54F Computer-Based Simulation

Models Exclusion: CSC354 Prerequisite: CSCA68. STAB47S

Co-operative Programme in Administration

Director: H. Wittmann (287-7107) Co-ordinator: Beverley Abramson (287-7112)Supervisor of Studies: R. S. Blair

(287-7304)

The Co-operative Programme in Administration is a work-study programme which combines academic studies, primarily in Management, Economics and Political Science, with work experience in public and private enterprises. The programme alternates study terms with work terms and typically requires almost five years to complete. Administration students learn through both studies and practical experience about:

- decision-making in both business and government

- the management of policies and programmes dealing with complex economic, political, social and business problems

- financial and management accounting

- the allocation of resources

policy and economic analysis Students prepare for careers in business, government, regulatory agencies, crown corporations or for further studies in the social sciences (MA), business (MBA), public administration (MPA), accounting (C.A.) and law (LLB).

Admission to the Programme Applicants from Grade 13/OAC programmes (or equivalent) may gain admission directly from high school. They should indicate their choice of Scarborough College and the Co-operative Programme in Administration on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme. Students from university or community college may also apply.

Admissions are granted on the basis of applicants' interest and potential ability in administration, accomplishment and grades in both verbal and quantitative studies, and a letter of reference from a high school teacher or university instructor. Interviews may be required. Enrolment is limited and only a small number of applicants can be accepted each year. Admissions are considered annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

Fees: Every student in a co-operative programme is required to pay additional fees as established by the University.

Specialist (Co-operative) Programme in Administration This programme requires eight four-month terms of study, four work terms and two "off" terms over a five year period. In addition to the twenty full-course credits needed for graduating, extra credits will be awarded for the work terms. Students begin with a full academic year of study, then alternate study and work terms, and conclude with a final eight months of study. Exceptionally, with the agreement of the director and co-ordinator, a fifth work term may be allowed. Work terms are arranged and scheduled by the Office of Co-operative Programmes but must be won by students in competition with co-operative students from this and other universities. During work terms students gain experience in a wide range of departments within government, business enterprises or public agencies. Depending on their needs and abilities students work in areas such as accounting, administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy and strategic planning.

Careers In Accountancy

The college offers a significant number of courses which have been recognized as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Certified Management Accountants. Appropriate co-op work terms with designated C.A. firms will be recognized by the Institute of Chartered Accountants of Ontario as part of their internship requirement.

Evaluation of Work Term Performance on each work term is evaluated by both the employer and co-ordinator. Students must submit for evaluation a report for each work term which integrates knowledge gained during the work term with academic study already completed.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation, a student must

- complete a full-time course of studies (at least two full-course equivalents and normally 2.5) during each study term
- maintain a cumulative grade point average of 2.50
- receive a satisfactory evaluation for work term performance and work term reports Notes:
- 1. EACH COURSE MAY BE COUNTED ONLY ONCE IN SATISFYING WORK PLACEMENT AND PROGRAMME REQUIREMENTS.
- 2. IT IS THE STUDENTS' INDIVIDUAL RESPONSIBILITY TO ENSURE THAT THEY HAVE COMPLETED THE CORRECT COURSES TO MAKE THEM ELIGIBLE FOR EACH WORK TERM AND THAT THEY HAVE CORRECTLY COMPLETED PROGRAMME AND DEGREE REQUIREMENTS FOR GRADUATION.

Eligibility for work terms

To compete for a work term a student must be in good standing in the programme and must have completed

- for the first work term: seven full-course equivalents, including one of ECOA02 or ECOA03, MGTA02, MGTB02, POLA50, and one of the courses listed in Section A, IV (below).
- for the second work term: nine full-course equivalents including the above courses and MGTB03, ECOB03 or ECOB04.
- for the third work term: eleven full-course equivalents including the above courses, a statistics half-course from section A, II, (below) and MGTB27.
- for the fourth work term: thirteen fullcourse equivalents including the above courses.

In the first two years of study all students follow a common core of studies (section A below).

- beginning in the third year, students choose an advanced option (Section B. below) from the following fields of administrative studies: Economic Policy, Policy Analysis, and Management. The choice should be made on the basis of the student's career goals, personal interests and skills.
- advanced courses in Computer Science, Economics, Management, Mathematics, Political Science, Psychology, and Sociology have prerequisites so students must plan their studies with care.
- EACH STUDENT'S CURRICULUM REQUIRES THE ANNUAL APPROVAL OF THE SUPERVISOR OF STUDIES. IN

ADDITION, ALL COURSE CHANGES MUST BE APPROVED BY THE SUPERVISOR OF STUDIES.

If courses are not available, students should check with the supervisor of studies for alternatives.

For the first year (Winter Session) a student's course selections will depend upon which introductory course in ECO is chosen, since ECOA02 has a corequisite of MATA28 or MATA26*. If ECOA02 is selected, a student will also take MATA28, MGTA02, MGTB02, and either POLA50 or one of the courses listed in Section A. IV (below).

If ECOA03 is selected, a student will also take MGTA02, MGTB02, POLA50, and one of the courses listed in Section A, IV (below).

Students must complete 15 full-course equivalents from the following curriculum in order to fulfill the academic requirements for this specialist programme. The remaining 5 full-course equivalents for the degree can be chosen from the entire range of courses in the Calendar. *Calculus (MATA28 or MATA26) is an optional course for this programme. Prerequisites will have to be met.

A. CORE COURSES

(11.0 full-course equivalents)

SOCIAL SCIENCE FOUNDATIONS REQUIRED (6.5 full course equivalents)

Economics Courses ECOA02Y or

ECOA03Y Introduction to Economics ECOB03Y or

ECOB04Y Price Theory

Management Courses

MGTĂ02Y Introduction to Management MGTB02Y Financial Accounting MGTB03F/S Management Accounting MGTB27Y Organizational Behaviour

Political Science Courses

POLA50Y Introduction to Canadian Politics

II. BASIC SKILLS REQUIRED (1.5 fullcourse equivalents)

a) Computer Science

CSCA02F/S How Computers Are Used Computer Basics: CSCA06F/S

Fundamental Concepts and

Terminology

CSCA58F/S Introduction to Computing b) Statistics

ECOB10F/S Quantitative Methods in

Management

(Note: Students who choose Economic Policy as their Advanced Option should take ECOB09Y Quantitative Methods in Economics.)

c) one of:

ECOB35F/S Public Decision Making ECOB68F/S Comparative Economic

Systems

ECOC32F/S Economics of the Public

Sector

III. BEHAVIOURAL FOUNDATIONS REQUIRED (1.0 full-course equivalent)

To be selected from courses within the Humanities, Life & Social Science Divisions. The intention of this requirement is to provide students with an understanding of human behaviour, attitudes and social issues within the context of the work environment.

Examples:

ANTB23F/S Human Nature: An Anthropological Inquiry

MGTC22F/S Personnel Administration MGTC25F/S Organizational Design MGTC26F/S Comparative Organizational

Behaviour PHLB01F/S Ethics I PHLB05F/S Social Issues PHLB22F/S **Business Ethics** PSYA01Y Introduction to Psychology

PSYB10F/S Introduction to Social Psychology

Sociology of Work & SOCB33Y Industry

IV. HISTORICAL & CULTURAL FOUNDATIONS REQUIRED (2.0 fullcourse equivalents)

To be selected from the Humanities Division and must include one of:

HISA01Y The European World: An Introduction to History

HISB02Y Modern Britain HISB03Y History of the United States

HISB04Y Introduction to Canadian History

HUMA01Y Prologue

HUMA02Y Composition: An

Introduction to Expository

Writing

Any language course beyond Language the Grade 13 or OAC level

B. ADVANCED OPTIONS

(4.0 full-course equivalents) To be selected from one of the following

ECONOMIC POLICY Required:

- ECOB07Y or ECOB08Y
- 2.0 full-course equivalents in Economics
- 1.0 full-course equivalent in Political Science or Management

II. POLICY ANALYSIS Required:

- 3.0 full-course equivalents in Political Science selected from: Canadian Government, Public Policy/Public Administration, or Comparative Politics (Industrial Countries)
- 1.0 full-course equivalent in Economics or Management

III. MANAGEMENT Required:

- a) 3.0 full-course equivalents in Management
- MGTČ42F/S or POLB61F/S
- 0.5 full-course equivalent in Economics

C. ELECTIVES

(5.0 full-course equivalents)

ADMC01-C05H Administration Co-Op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in an appropriate, related field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term. Continuation in the co-op programme is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing in the programme and must have completed a required number of courses. (For details: see page 54). Course credit of 0.5 full-course equivalent is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

Co-operative Programme in Arts Administration

Director: H Wittmann (287-7107) Acting Co-ordinator: Diane Quinn (287-7114)

Supervisor of Studies: J. Mayo (287-7191) The Co-operative Programme in Arts Administration is designed for students with an interest both in the arts and in business or management, and normally requires four to five years to complete. It combines academic study in a wide variety of subjects with practical work experience, preparing students for permanent employment as arts administrators, or for further studies in Business Administration, Museum Studies, Drama, Music or Art History.

Admission to the Programme Admission is granted on the basis of applicants' academic performance, background in one or more of the arts, interest and potential ability in Arts Administration, and a letter of reference from a high school teacher or university instructor. Facility in Mathematics at the high school level is highly desirable. Interviews are usually required.

Applicants from Grade 13/OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-operative Programme in Arts Administration on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme. Applications will also be accepted from first-year university students.

Enrolment in this programme is limited. Decisions about admissions are made annually in May and June. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. Therefore it is essential that the applicant apply to the University of Toronto at least six weeks prior to this date.

All students in a co-operative programme are required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in Arts Administration requires twenty academic courses (four years) of study and two work terms of four months each. Students complete 8.5 fullcourse equivalents in (A) the administrative field, 6.0 full-course equivalents in (B) the artistic field and 5.5 additional full-course equivalents from (C) an elective field. In addition extra credits are awarded for the work terms.

A. Administrative Field of Study The following 8.5 full course equivalents

are required: AADB01Y Introduction to Arts Administration AADD10Y Senior Seminar in Arts Administration ECOA03Y Introduction to Economics ECOB35F/S Public Decision Making HUMA02Y Composition: An Introduction to Expository Writing MGTA02Y Introduction to Management

MGTB02Y Financial Accounting MGTB27Y Organizational Behaviour POLA50Y Introduction to Canadian Politics

In addition students are expected to use some of their elective field (C) to take further courses in administration. The following courses are recommended:

CSCA02F/S How Computers are Used ECOB03Y Price Theory ECOB07Y Macroeconomic Theory and

Policy MGTB03F Management Accounting MGTC02Y Corporation Finance MGTC04F Principles of Marketing MGTC05S Introduction to Marketing

Management MGTC07F/S Market Research

MGTC10F Management Control Systems

MGTC22F/S Personnel Administration MGTC30Y The Legal Environment of Business

MGTC54Y Industrial Relations POLB53F/S Public Policies in Canada

POLB61F/S Canadian Public Administration: Institutions

and Processes POLB62F/S Public Policy-Making

POLC60F/S Administrative Politics POLC61F/S Policy Development and

Political Evaluation POLC63F/S Administrative Theories and Policy-Making

POLC64F/S Comparative Public

Administration

Please note that many of the above courses require prerequisites and/or permission of instructor.

B. Artistic Field of Study Six full-course equivalents from one of the following fields:

Required: DRAB01Y An Introduction to the Practical Elements of Theatre DRAB03Y The History of Theatre I DRAB04Y The History of Theatre II DRAB06Y Canadian Drama ENGB11Y Varieties of Drama and

One full-course equivalent from the courses listed under the Major Programme in Drama, Group A (page 67)

and one full-course equivalent from the courses listed under the Major Programme in Drama,

Group B (page 67) II Fine Art History

Required:

Classical

I Drama

Five full-course equivalents in art history, one from each of the following areas:

Medieval Renaissance Baroque Modern (1750 to the present)

and

one additional full-course equivalent in art history at the C-level (see page 00 for Fine Art History courses). III Fine Art Studio

Required:

FARA90Y Foundation Studies in Studio*

FARA91F/S But Why Is It Art? FARB70F/S Drawing I

FARB72F/S Contemporary Issues in

Printmaking FARB74F/S Drawing II FARB75Y Painting I

and

2.0 additional full-course equivalents in Fine Art Studio of which one must be at the C-level (see page 91).

* Students must meet the prerequisite for FARA90Y; an OAC in visual art or permission of instructor following a positive evaluation of a portfolio.

IV Music Required:

MUSA01Y Introduction to Music MUSB07F/S Materials of Music I MUSC21F/S Materials of Music II

4 additional full-course equivalents from Music (see page 148).

C. Elective Field of Study

A further 5.0 full- course equivalents chosen in conjunction with the programme supervisor. The purpose of the elective field is to allow students some flexibility in shaping a degree programme to their

interests and future needs. In making their choices students should remember that a working knowledge of a second language, especially French, may be particularly valuable. Students can choose one of the following options:

1. Courses chosen from a number of different subject areas with the aim of providing breadth to the student's programme.

A coherent selection of courses in one subiect area.

Further concentration in the chosen artistic field (B), or in the administrative field. This option is particularly valuable for students wishing to complete the specialist requirements in their artistic field, or for students contemplating graduate study in the arts or in Business Administration. Students considering careers in a museum or graduate work in Museum Studies should use this option to take an approved programme of courses in anthropology and other related disciplines.

Students selecting either 2. or 3. will need to consult also with the programme supervisor in the chosen subject. The programme supervisor of Arts Administration can supply details of suggested elective packages. CONSULTATION WITH THE SUPERVISOR OF STUDIES IS ESSENTIAL FOR ALL STUDENTS IN EACH YEAR OF THEIR PROGRAMME. IN ADDITION ALL PROGRAMME AND COURSE CHANGES MUST BE APPROVED BY THE SUPERVISOR OF STUDIES.

Work terms

Work terms may begin in September, January or May and students are normally eligible for a work placement after their second year of study. The places of work will vary widely according to availability and to a student's needs and abilities. Although the work placements are arranged by the co-ordinator of the Arts Administration Programme, they must be won by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and coordinator. Students must also submit at the end of each work term a report which integrates knowledge gained during the placement with academic study already completed (see AADC01 and AADC02).

- two full-course equivalents from the artistic field
- AADBOLY (Introduction to Arts Administration)
- HUMA02Y (Composition: An Introduction to Expository Writing)
- MGTA02Y (Introduction to Management)
 MGTB02Y (Financial Accounting)
 Normally students return to their studies
 after each work term, and must be registered

after each work term, and must be registered in courses after the completion of their last work term. AADD10Y is taken after the completion of the first work term.

Standing in the programme

To maintain standing in the programme, to be eligible for work placement and to receive specialist certification upon graduation a student must

- maintain a cumulative grade point average of 2.50
- receive a satisfactory evaluation for work term performance and work term reports
- complete a full course of study (at least two full-course equivalents and normally 2.5) during each study term
- participate in special events and seminars arranged by the co-ordinator.

Courses in the first two years of the programme

The first year of study should consist of AADB01Y, one full-course equivalent from the artistic field, MGTA02Y, MGTB02Y, plus HUMA02Y, or a foreign language course, or a further course in the artistic or administrative field.

The second year of study should consist of five full-course equivalents to include ECOA03Y, HUMA02Y (if not taken in first year) and a balanced mixture of administrative and artistic courses.

AADB01Y Introduction to Arts Administration and Policy

Telephone ID #: 00120163
The theory and practice of arts administration and policy in Canada.

The course will examine all aspects of arts administration and policy, from the economic and financial problems of artists, arts organizations, service and funding agencies, to the formulation of municipal, provincial and federal arts policies. Topics include marketing of artistic works, publicity and promotion, fund-raising, audience development, corporate,

foundation and government support, and Canada's domestic and international arts policies. The teaching method will include lectures, class participation, term papers and guest speakers.

Exclusion: (HUMB90)

Session: Winter Day P. Schafer

AADC01 and AADC02 Arts Administration Co-Op Work Terms

The Arts Administration Work Terms form an integral part of the co-op curriculum. They are designed to provide a student with practical experience in an appropriate setting, thereby enhancing the student's academic studies and developing professional and personal skills. To be eligible for a work term, a student must be in good standing in the Programme and have completed certain required courses (see page 56) and pre-placement seminars. The work term report prepared by the student is a vital component of each placement experience. Course credit of 0.5 full course equivalent is earned for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

AADD10Y Senior Seminar in Arts Administration

Telephone ID #: 00141063
The course will deal with selective problems and issues in arts administration and policy.

Capitalizing on the practical experience students have had in the field, this seminar will analyse such basic problems and issues as board management relations, corporate sponsorships, dealing with the creative personality, motivating volunteers, crisis management, the roles and responsibilities of governments and arts councils, and future directions in Canada's internal and external arts policies. Students will be expected to make presentations on these topics for discussion and evaluation in class. Extensive use will be made of case studies.

Enrolment is limited to students who have completed at least one work term in the Specialist Co-operative Programme in Arts Administration, or by permission of the instructor.

Exclusion: (HUMD10) Session: Winter Day

P. Schafer

Co-operative Programme in Computer Science and Physical Sciences

Director: H. Wittmann (287-7107)
Co-ordinator: G. Cupit (287-7253)
Supervisor of Studies: C. Dyer (287-7206)
The Co-operative Programme in Computer Science and Physical Sciences is a workstudy programme which combines academic studies in computer science, and other disciplines in the physical sciences with work placements in public and private enterprises. The programme alternates study during the regular academic term (September to May) with work terms during the summer term (May to August).

The programme prepares students for permanent employment with government and business enterprises concerned with research and technology as well as for graduate study in Computer Science. Graduates receive a four-year B.Sc. with a specialist certification in Computer Science and Physical Sciences.

Admission to the Programme

- a. Applicants from Grade 13/OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-Operative Programme in Computer Science and Physical Sciences on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme.
- b. From First-year University: Students accepted by the University and College may apply whether or not they have completed the first year curriculum. The timing of their work placement will depend upon the particular university courses they have already completed.

Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required. Enrolment is limited and only a small number of applicants can be accepted each year. Decisions about admissions are normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by

April 30, 1992. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

Fees: Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences

This programme requires twenty courses (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their first two years of study. Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and coordinator. Students must also submit for evaluation a report for each work term.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must

- maintain a cumulative grade point average of at least 2.50
- receive a satisfactory evaluation for work term performance and work term reports
- be registered as a full-time student during study terms

There are two courses of study offered within this co-operative programme. These will be outlined below as Option A: Computer Science and Physics and Option B: Computer Science and Statistics. Note that courses need not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided. EACH STUDENTS PROGRAMME REQUIRES THE ANNUAL APPROVAL OF THE SUPERVISOR OF STUDIES.

Option A Computer Science and Physics 16 required courses

First Year CSCA58F, CSCA68S, MATA04Y, MATA26Y,

PHYAOIY

Second Year CSCB38F, CSCB58F,

CSCB28S,

MATB41F and MATB42S

or MATB05Y, PHYB21S, PHYB22S, PHYB23H Third Year *

CSCB09S, CSCC24S. CSCC50F, CSCC78F, CSCC85S, MATC51F, PHLB70F, PSCC01H

Fourth Year *

CSCC51S, CSCC64S, PHYC21F, PHYC22S, PSCD01F, PSCD02S, one full-course equivalent chosen from other C level Physical Sciences Division courses

* Students currently registered in year three or year four of the programme should consult the 1990/91 Calendar and the programme supervisor.

Option B

Computer Science and Statistics 14.5 required courses

First Year

CSCA58F, CSCA68S, MATA04Y, MATA26Y, PHYA01Y

Second Year

CSCB28S, CSCB38F, CSCB58F, MATB41F, MATB42S, MATB43S, STAB22F, STAB47S

Third Year

CSCC24S, CSCC64S, CSCC78F, (STAC67F and STAC42S) or (STAC62F and STAC52S), plus one half-course equivalent from C level statistics courses. CSCC54F, and 300 and 400 level statistics courses CSCC50F, CSCC51S,

Fourth Year

on the St. George Campus PSCD01F, PSCD02S, (STAC67F and STAC42S) or (STAC62F and STAC52S), plus one halfcourse equivalent from C level statistics courses. CSCC54F, and 300 and 400 level statistics courses on the St. George Campus

NOTE: IT IS THE STUDENTS' INDIVIDUAL RESPONSIBILITY TO ENSURE THAT THEY HAVE CORRECTLY COMPLETED PROGRAMME AND DEGREE REQUIREMENTS FOR GRADUATION.

Eligibility for work placements: To compete for work term placement a student must be in good standing in the programme and must have completed at least ten full-course equivalents.

Normally, students return to their studies after each work term (and must be registered in courses after the completion of their last work term).

CSPC01-C03H Computer Science and Physical Sciences Co-op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in an appropriate, related field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term. Continuation in a co-op programme is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing in the programme and must have completed 10 courses. Course credit of 0.5 full-course equivalent is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

Co-operative Programme in International **Development Studies**

Director: H. Wittmann (287-7107) Co-ordinator: J. Maxwell (287-7113) Supervisor of Studies: P. Léon (287-7173)

The Co-operative Programme in International Development is intended for students with an interest in international development, in geography, ecology and economics, and in the relations of Canada with developing countries. The programme combines academic study in the social and ecological sciences with practical work experience in a developing country, and typically requires up to five years to complete. An eight to twelve month work placement, usually with a Canadian or Third World development agency, is a central part of the programme. One of the distinctive features of the curriculum is the integration of political, economic and social development studies with courses in ecological and physical resource management. International Development Studies students learn through both studies and practical experience about:

- development economics and social and political change in developing countries - international relations

environmental sciences, especially the management of natural resources in developing countries

- the geography, culture, language and history of the area in which they are interested.

The programme prepares students for employment with Canadian and international governmental and nongovernmental development agencies and projects. It also provides background for further studies in environmental geography, economics and political science.

Graduates receive a four-year B.A. or B.Sc. with specialist certification in International Development Studies.

Admission to the Programme

a. Applicants from Grade 13/OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-operative Programme in International Development Studies on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme.

b. From first-year university: Students accepted by the University and College may apply whether or not they have completed any part of the first year curriculum. The timing of their work placement will depend upon the particular university courses they have already completed.

Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, experience or interest in international development studies and work, and a letter of reference from a high school teacher or university instructor. Enrolment is limited and interviews are required. Admissions decisions are normally made from late May until early July. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date.

Fees: Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in International Development Studies

This programme requires twenty courses (four years) of study and a work term of approximately ten to twelve months

duration. The work term will normally begin no sooner than the end of the third year and no later than January of the fourth year of the Programme.

Work placements are arranged by the Office of Co-operative Programmes but must be won by students in competition with all applicants for the positions. Students may be responsible for financing part of the living expenses associated with placements. The location of the placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of development work. Students may serve with the administration or management of research or development programmes of Canadian or local development agencies, universities, schools and organizations in a developing country.

The objective of the work placement is to provide students with experience and appreciation of the practical difficulties of development work and the flexibility required in the application of theoretical concepts. Before the work term students must, in consultation with the Supervisor of Studies, develop a proposal for a research subject. A critical or analytical paper on the research subject and if possible based on the work placement experience is then written during the final year in the Programme after students return from their placements. Performance on placements will be evaluated by the employer, the coordinator and the supervisor of studies. Shortly after their return (typically in September or October. of the final year) students must submit a brief evaluation of their placement to the programme's coordinator.

Eligibility for Work Placements To compete for work placements a student

- have completed at least fifteen full-course equivalents including at least 10 from the core programme (Section A) and advanced options (Section B); and two full courses from the regional and language options. After the work term students return to their studies and enroll in IDSD01Y (International Development Studies: Advanced Seminar) and such other courses as are necessary to complete their degrees.

To maintain standing in the programme and to receive specialist certification upon graduation, a student

- maintain a cumulative grade point average of 2.50
- receive satisfactory evaluations for work placement performance and the research paper
- be registered as a full-time student during study terms

All students must complete

- a common core programme (at least nine full- course equivalents) in resource management sciences and development economics and politics (Section A, below)
- an advanced option (at least three fullcourse equivalents) in either political economy or ecological management (Section B, below)
- a regional language and culture option (Section C, below)
- IDSD01Y, an advanced seminar related to their work placement experience
- other elective courses (Section D, below)

NOTES:

- EACH COURSE MAY BE COUNTED ONLY ONCE IN SATISFYING WORK PLACEMENT AND PROGRAMME REQUIREMENTS.
- 2. IT IS THE STUDENTS' INDIVIDUAL RESPONSIBILITY TO ENSURE THAT THEY HAVE COMPLETED THE CORRECT COURSES TO MAKE THEM ELIGIBLE FOR THE WORK TERM AND THAT THEY HAVE CORRECTLY COMPLETED PROGRAMME AND DEGREE REQUIREMENTS FOR GRADUATION.

In the first two years of study students must complete as much of the common core programme and of language studies as possible. The core programme contains two courses specially designed for International Development students: IDSB01Y: International Development Studies, Political Economy; and IDSB02Y: International Development Studies: Physical and Ecological Resource Management. Students must choose their regional and language option (Section C) no later than year 2 and their advanced option (Section B), no later than the beginning of year 3. In choosing courses students must pay careful attention to the prerequisites for higher level courses. Some courses in the programme are offered on other campuses of the university. Please note that course offerings on all the campuses will not be finalized until after this Calendar has been printed. CHECK WITH SUPERVISOR OF STUDIES FOR COURSE AVAILABILITY.

Each student's programme requires the annual approval of the Supervisor of studies. In addition, all course changes must be approved by the supervisor of studies.

The curriculum requirements are as follows: Twenty full-course equivalents including:

A Core Programme: at least nine full-course equivalents from the following: (PLEASE NOTE THE COURSES ON ST. GEORGE CAMPUS ARE IDENTIFIED WITH*. ALSO NOTE THAT STUDENTS MUST COMPLY WITH REGULATIONS REGARDING REGISTERING IN COURSES ON OTHER CAMPUSES.)

I. Required:

ANTC10F/S Anthropological

Perspectives on Development

Mathematical Approach

or authorized alternative

BIOB14F/S Environmental Biology ECOA02Y Introduction to Economics: A

ECOA03Y Introduction to Economics *FOR495F Forestry in Development plus one half full-course equivalent in a cognate discipline to be chosen in

consultation with the Supervisor of Studies. GGRB09F/S Hydrology, Land Use and Water Quality

*GGR206H Introduction to Hydrology GGRB35F Introduction to Soil Science GGRC40S Tropical Soil Management

and International Development

IDSB01Y International Development

Studies: Political Economy IDSB02Y International Development

Studies: Physical and Ecological Resource

Management IDSC04F/S Project Management POLB80Y International Relations

II. One full-course equivalent from: *HIS101Y The Emergence of the Third

World

POLB91Y Politics of the Third World

B Advanced Options: at least three fullcourse equivalents chosen from either I or II. below

I. Political Economy Three full-course equivalents from ANTB20Y Social and Cultural Anthropology

ANTC11Y	The Anthropology of Women	cou
ANTC19F/S	Economic Anthropology	deve
ANTC51Y	Medical Anthropology	cou
ANTC56Y	The Anthropology of Food	appı
ANTC60F/S	Fieldwork in Social and	cou
	Cultural Anthropology	kno
ECOB03Y	Price Theory	subs
ECOB07Y	Macroeconomic Theory and	Sele
	Policy	to a
*ECO230Y	International Economic	Son
	Institutions	liste
ECOC66F/S	Economic Development	
ECOC67F/S	Development Policy*	STU
	*if not taken as part of core	REC
	requirements above	CON
GGRC20F/S	Issues in Rural Development	FOR
GGRC29Y	Problems in Modern	
	Agricultural Land Use	I. L
POLB91Y	Politics of the Third World*	a. at
	*if not chosen as part of core	Α
	requirements	
POLD93F/S	Selected Topics on	
	Developing Areas	Α
POLD94F/S	Selected Topics on	*,
	Developing Areas	
*POL445Y	Canada and the Third World	
SOCC17F/S	Social Change in the Third	E
	World	
WSTC10Y	Women and Development	
One half-cou	rse in Statistics	*(
	l Resource Management	*(
	full-course equivalents chosen	
from		*]

Ecological Anthropology

ANTRO1Y

AINIDULI	Ecological Anthropology
ANTC51Y	Medical Anthropology
BIOB12Y	Fundamentals of Ecology
	(Note: BIOA03Y Introductory
	Biology is a prerequisite -
	students in this stream are
	strongly advised to take
	BIOA03Y)
*BOT206Y	Applied Botany
*FOR455H	Advanced Forest Ecology
*FOR456H	Forest Soils II
GGRB03Y	Climatology
GGRB19Y	General Geomorphology
GGRC28Y	The Hydrology of Surface and
	Subsurface Waters
*GGR207H	Airphoto Interpretation
*GGR305H	Biogeography
*GGR310H	Problems in Biogeography
*GGR355H	Environmental Change
*GGR393H	Methods of Environmental
	Impact Assessment
*GGR416H	Field Studies in
	Environmental Assessment
*GGR461H	Remote Sensing of

Environment One half-course in Statistics C Regional and Language Options: At least two full-course equivalents chosen from

irses dealing with a designated elopment region. One of these fullirse equivalents should be in a language propriate for work in developing intries. Students with a functional owledge of an appropriate language may stitute non-language regional courses. ection of a region and courses is subject approval by the supervisor of studies. ne approved courses for two regions are ed below.

UDENTS INTERESTED IN OTHER GIONS AND LANGUAGES SHOULD NSULT THE SUPERVISOR OF STUDIES R A LIST OF COURSES AVAILABLE.

*HIS292Y

I. Latin America	a
a. at least one fi	ull-course equivalent from
ANTB03F/S	The Americas: an
	Anthropological
	Perspective
ANTB07F/S	Comparative Slavery
*ANT443Y	Social Anthropology of
	Latin America and the
	Caribbean
ENGB20F/S	Contemporary Literature in
	English: Africa and the
	West Indies
*GGR244H	Historical Geography of
	Latin America
*GGR249H	Contemporary Latin
	America
*HIS291Y	Latin America: the
	Colonial Period

*HIS394Y Protest and Change in the Caribbean Topics in Modern Latin *HIS490H

Latin America: The

National Period

American Social History HUMC14Y Topics in Latin American Culture and Literature POLC98Y Politics and Society in

Latin America *POL442Y Topics in Latin American

Politics I and II *PRT280H Aspects of Brazilian Culture

*SOC323Y Social Change in Latin America

and

b. at least one	full-course equivalent fron
SPAA01Y	Introductory Spanish
SPAA02H	Language Practice I
SPAB01Y	Intermediate Spanish
SPAB02H	Language Practice II
*PRT100Y	Introductory Portuguese
*PRT222Y	Language Practice

a. at least one full-course equivalent from

ANTB05F/S African Cultures and Societies I: Survey Cultures of the Middle East ANTB55Y and the Islamic World ANTC06F/S African Cultures and Societies II: Case Studies *ANT345Y Social Anthropology of West Africa ENGB20F/S Contemporary Literature in English: Africa and the West Indies *GGR345H Africa: Geographical Aspects of Economic Change *HIS395Y Black Africa in the 20th Century *HIS495Y Black Africa: Social and Economic History POLC95Y Politics and Society in Independent Africa *POL430Y Topics in African Politics and b. at least one full-course equivalent from FREA10Y Language Practice I FREB10Y Language Practice II *NEW280Y Introductory Swahili *NEW380Y

Efforts will be made to accommodate students who have other regional and/or linguistic interests. See supervisor of studies.

D Required:

IDSD01Y International Development Studies: Advanced Seminar

Intermediate Swahili

and

any five other full-course equivalents which satisfy the degree requirements.

In addition to the courses listed, students should be aware of the following recommended courses:

recommitted as a	courses.
MGTA01Y	Financial Accounting
ECOC61F/S	International Economics:
	Finance
ECOC62F/S	International Economics:
	Trade Theory
*ECO328Y	International Economics
*FOR466Y	Wildlife Ecology and
	Management
*GGR334H	Water Resource
	Management
*GGR356H	Energy-Environment
	Interaction
*GGR461H	Remote Sensing of
	Environment
*JPE400Y	The Political Economy of
	International Developmen

Students should also be aware of certain courses at other universities which may, with the approval of the Supervisor of

Studies and the agreement of the host university, be taken for programme credit.

IDSB01Y International Development Studies: Political Economy

Telephone ID #: 08120163 Introduces students to major development problems, the principal social, economic and political factors that condition these and the impact on them of various development strategies pursued in a sample of developing countries. The course is composed of five sections: the evolution and meaning of the term "third world"; the evolution of the socio-economic situation

in less-developed countries; absolute poverty, inequality, oppression and sociocultural strain; conservative, reformative and revolutionary development strategies; recent developments in thought about developing countries including advocacy of "basic needs" strategy and a New

> International Economic Order. Prerequisite: A course in Economics or Politics or permission of the instructor

Session: Winter Day

IDSB02Y International Development Studies: Physical and Ecological Resource Management

Telephone ID #: 08120263 Introduces students to the physical and ecological bases of natural resource management, and their role in constraining development in less developed countries. The course includes study of: basic climatic processes, climatic differentiation; the hydrologic cycle and its role in water resource management; principles of soil development and nutrient cycling; processes of plant colonization and community development. It will include case studies of natural resource management and mismanagement in developing countries. Students will be encouraged to develop specific regional interests in course tutorials.

Session: Winter Day

IDSC01-C03H International Development Studies Co-Op Work Placement Term

The IDS work placement is an integral part of the Co-op curriculum and is designed to provide students with practical hands-on experience of the development process in a Third World field setting. Students are placed as apprentice interns with Canadian or local development agencies or universities in a developing country for a 10-12 month period. Students are required to submit progress reports every 2 months and begin work on a major research project

based on their work placement experience. To be eligible for placement, students must have completed 15 full-course equivalents including 12 IDS (10 core plus language and regional option) credits and maintain 2.5 G.P.A. The IDS work placement normally begins after the third year of study and requires a minimum of 2 years of residence in the programme. Course credit of 0.5 fullcourse equivalent is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirement and are graded on a Credit, No Credit system.

There are no additional course fees for work terms.

IDSC04F/S Project Management Telephone ID # IDSC04F: 08130433 Telephone ID # IDSC04S: 08130453 A study of the phases of the project management cycle with emphasis on situational analysis and identification of needs, project implementation, project monitoring and evaluation.

Project management will be considered in the context of the mission and programme activities of international development agencies. Students will be familiarized with basic organizational development theory and the various approaches of Canadian Non Governmental Organizations (NGOs) engaged in the delivery of development assistance. The integration of gender and development and environmental issues into the project process will be discussed.

CIDA's policies and practices governing project administration as well as its project management model will also be examined. Students will carry out field visits to local development NGOs to analyze the project approach used by the agency. Practising professionals will also be invited to talk about development issues and project management. Exclusion: (IDSB03)

Prerequisite: IDSB01Y & IDSB02Y and permission of the instructor. Session: Fall or Winter Day

IDSD01Y International Development Studies: Advanced Seminar

Telephone ID #: 08140163 Normal enrolment in this course will be made up of IDS students who have completed their work placement. Each student will give at least one seminar dealing with their research project and/or placement. The research paper will be the major written requirement for the course, to be submitted no later than mid-March in the

final year. The course will also include seminars by practising professionals on a variety of development topics. Prerequisite: Students must have completed the first four years of the IDS Programme or its equivalent and have completed their placement. Also, permission of instructor is required. Session: Winter Day

NOTE:

FOR courses: these courses are offered by the Faculty of Forestry. The Calendar of that Faculty should be consulted for complete course descriptions. For International Development Studies students the prerequisites for FOR456H are IDSB02Y and GGRB29Y.

GGR courses: The normal prerequisites in GGR B-level courses may be waived by permission of the instructor for IDS students. Students in the Ecological Management stream who plan to graduate with a Bachelor of Science degree should make sure that their course selection satisfies the B.Sc. degree requirements.

Drama

Discipline Representative: M.Q. Schonberg (287-7165) 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.

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, students become acquainted with all aspects of theatre production in studio situations, both as actors and technicians. Students study both with faculty members and with professional artists and teachers.

Drama offers both a major and a specialist programme.

The specialist programme is intended for students with a serious interest in drama and theatre. Students with a general interest in the discipline are encouraged to consider the major programme.

Drama students may wish to refer to the following:

Specialist Programme in the Arts: Page 23 Specialist in Co-operative Programme in Arts

Administration: Page 56

Specialist Programme in Drama Supervisor: M.Q. Schonberg

A student is required to complete thirteen full-course equivalents, eleven in the area of Dramatic Literature and Theatre, and two in related disciplines, as follows:

l	DRAB01Y	An Introduction to the
		Practical Elements of
		Theotre

2 DRAB03Y The History of Theatre I
3 DRAB04Y The History of Theatre II
4 ENGB11Y Varieties of Drama

5 ENGC50Y Modern Drama6 Three full-course equivalents chosen

6 Three full-course equivalents chosen from the following:

Greek and Roman
Tragedy
The Art and Nature of
Comedy
Theatre in Canada
Dramatic Literature and

DRAC20H Political Revolution
Theatre Seminar
Shakespeare
ENGB26F/S Canadian Drama

ENGC33Y* English Drama to 1642 ENGC55F/S* Drama Since 1960

ENGD10 -ENGD58F/S

Studies in Major Writers**

ENGD70 -

ENGD89F/S Selected Topics **
FREB51F/S The Classical Age:
Comedy

FREB52F/S The Classical Age: Tragedy and Drama

FREC30F/S French Theatre in the 20th Century

Students should check these courses for

prerequisites.

** Course content varies from year to
year. Students should check the listings in
the Calendar to determine what precise

courses may be pertinent to Drama in a given year.

7 Three full-course equivalents chosen from the following (no more than one full-course equivalent may be chosen from DRAD20Y-DRAD28S).

DRAC01Y Intermediate Workshop in Theatre Performance
The Directors' Theatre
Individual Studies in French Theatre and Drama in Translation
DRAC11Y**

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 and

DRAD01Y* Drama in Translation
Advanced Workshop:
Performance and
Dispeting

Directing
DRAD20Y*/DRAD21Y*/DRAD22Y*
DRAD23Y*/DRAD24Y*/DRAD25F*
DRAD26S*/DRAD27F*

DRAD28S* Supervised Reading Courses

The student may take only one of the Individual Studies courses in any single academic year.

8 Two full-course equivalents chosen from the following:

ANTA01Y Introduction to Anthropology
ANTC05Y* Anthropological Study of Religion
CLAC03Y Greek and Roman Epic Reading Literature: The 20th Century
HISA01Y The European World: An

Introduction to History

HUMA01Y Prologue
HUMA03Y Prologue II
CLAA02Y Greek and Roman

CLAA02Y Greek and Roman Mythology HUMB70Y Introduction to the

LINA01Y Cinema
LINA04F/S General Linguistics
LINA04F/S Introduction to Language
MUSA01Y Introduction to Music

PHLB03F/S Philosophy and Art Introduction to Psychology

SOCA01Y Introduction to Sociology

* Students should check these courses for prerequisites

** Prerequisite: ten full-course equivalents NOTE: No more than ten full-course equivalents in DRA are permitted in the four-year degree.

Major Programme in Drama

Supervisor: M.Q. Schonberg
A student is required to complete seven fullcourse equivalents in the area of Dramatic
Literature and Theatre. The following four
courses comprise the core of the
programme:

DRAB01Y An Introduction to the Practical Elements of Theatre

DRAB03Y History of Theatre I DRAB04Y History of Theatre II ENGB11Y Varieties of Drama

In addition, the student must take three full-course equivalents, one from group A and two from group B, but no more than two courses from DRAC10-C14. No more than one full-course equivalent from DRAD20Y-DRAD28S) may be taken.

Group A DRAC01Y Intermediate Workshop in Theatre Performance 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

Spanish Theatre and Drama in Translation DRAD01Y Advanced Workshop:

Individual Studies in

Performance and Directing DRAD20Y*/DRAD21Y*/DRAD22Y* DRAD23Y*/DRAD24Y*/DRAD25H*

DRAD26S*/DRAD27F/S*
DRAD28F/S* Supervised Reading

DRAC14Y**

Courses

Group B
CLAC04Y
CRAB05Y
COmedy
DRAB06Y
DRAB07Y
DRAB07Y
DRAB07Y
DRAB07Y
DRAC02Y
The Art and Nature of
Comedy
Theatre in Canada
Dramatic Literature and
Political Revolution
The Directors' Theatre

DRAC20H Theatre Seminar ENGB10Y Shakespeare ENGB26F/S Canadian Drama

ENGC33Y* English Drama to 1642 ENGC35F/S* Drama Since 1960 ENGC50Y* Modern Drama ENGD10 -ENGD58F/S+ Studies in Major Writers ENGD70 -ENGD89F/S+ Selected Topics: FREB51F/S The Classical Age: Comedy FREB52F/S The Classical Age: Tragedy and Drama FREC30F/S French Theatre in the 20th

HUMB70Y Introduction to Cinema
 * Students should check these courses for prerequisites.

Century

prerequisites.

** Prerequisite: ten full-course equivalents

+ Course content varies from year to

year.Students should check the listings in the Calendar to determine what precise courses may be pertinent to Drama in a given year.

DRAB01Y An Introduction to the Practical Elements of Theatre

Telephone ID #: 04020163 An introductory practical course, concentrating on the non-literary aspects of theatre.

In the workshops the student will study basic acting techniques (rudiments of voice, movement, script interpretation, building a character), and will also be introduced to such technical skills as lighting, sound, makeup, set construction and painting. In addition, the student will be expected to participate in at least one production per term. Three two-hour workshops per week, plus additional time as necessary for rehearsals and/or production meetings, etc. Careful preparation for each of the workshops is essential. Exclusion: DRM200 Session: Winter Day P. Sperdakos/M.Q. Schonberg Offered 1992/93 and 1993/94

DRAB04Y The History of Theatre II

Telephone ID #: 04020463
A study of the history of the theatre in the nineteenth and twentieth centuries and study of the non-literary aspects of modern theatre in Europe and North America in the proper historical and socio-political context.

Major topics of concentration will deal with the European romantic theatre; the early theatre in North America; melodrama; the advent of realism; the naturalistic theatre; the symbolist trends; the expressionistic theatre; the epic theatre; contemporary theatre. Another area of study

will include ballet, opera, and so called "lesser" theatrical forms, i.e. music hall, vaudeville, burlesque theatre, circus.

The text will be Oscar Brockett: History of Theatre, Third Edition. Other texts will be announced in the spring. Exclusion: DRM264, DRM266 Session: Winter Day P. Sperdakos Offered 1992/93 Not offered 1993/94

DRAB05Y The Art and Nature of Comedy

Telephone ID #: 04020563

A study of the comic form in the theatre and film.

The student will read plays by the masters of comic drama and view films that are classics in the history of comic cinema. Representative theoretical works will be studied with reference to the political and social aspects of comedy.

The types of comedy explored will cover a wide range of works from farce to burlesque to comedy of ideas, political and literary satire, and the comedy of the absurd.

The course will be taught in lectures and seminars.

Session: Winter Day M.Q. Schonberg Offered 1992/93 Not offered 1993/94

DRAB07Y Dramatic Literature and Political Revolution

Telephone ID #: 04020763 A study of plays which deal with the various

aspects of political revolution.

Political revolution is perhaps the most striking feature of modern political change. From about 1800, dramatists have been fascinated with the political, social, and psychological issues raised by the apparent either/or of revolutionary change.

Texts will be drawn from European and North American literatures. All texts will be read in English. Exclusion: (JHGB50) (LITB15) (HUMB48) Prerequisites: LITA01 or ENGA01 or FREA30 (FREB02) or one full-course equivalent in literature Session: Winter Day H. Ohlendorf Offered 1992/93 Not offered 1993/94

DRAC01Y Intermediate Workshop in Theatre Performance

Telephone ID #: 04030163

This course is designed to enable advanced students to concentrate on

problems related to the staging of plays in studio situations.

A portion of the course is devoted to work with TV-video tape equipment. A minimum of three hours weekly in formal groups, and additional time in rehearsal, will be devoted to advanced exercises in acting skills, scene work, and work on productions. Exclusion: DRM300 Prerequisite: DRAB01 Session: Winter Day M.O. Schonberg Offered 1992/93 and 1993/94

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 and Drama 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

DRAC20H Theatre Seminar

Telephone ID #: 04032043 A course combining the experiences of either the Stratford or London Seminars with aspects of the history of theatre.

Students will be expected to attend one of either the Stratford or London Seminar sessions. Before the last day of the

previous spring term a brief statement about the project which will deal with a specific aspect of the history of the threatre must be signed by the supervisor. By early October a more developed statement must be submitted to the supervisor. A substantial paper on this topic will make up the final grade. Students will be expected to take on the financial responsibilities necessary for this course.

Exclusion: None

Prerequisites: DRAB01Y and DRAB03Y Session: Summer Day, Winter Day Co-ordinator: A.J.G. Patenall Offered 1993/94 and 1994/95

DRAD01Y Advanced Workshop: Performance and Directing

Telephone ID #: 04040163 Detailed textual analysis, in-depth scene study and elements of directing for the stage.

The course will include work on theatrical technique in areas such as period style, masks, improvisation stage fighting, etc. Students are expected to work on group projects, as well as on specific assignments according to their individual area of interest.

Exclusion: DRM400 Prerequisites: DRAB01, DRAC01 Session: Winter Day P. Sperdakos Offered 1992/93 Not offered 1993/94

DRAD20-24Y DRAD25-28H Supervised Reading An advanced reading course for drama students.

Students wishing to take this course should consult with M.Q. Schonberg, the Programme Supervisor, who will arrange in co-operation with the student a reading list and set the specific requirements 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. Exclusion: DRM390 Session: Winter Day M.Q. Schonberg FOR COURSES IN ARTS ADMINISTRATION PREVIOUSLY LISTED WITH A HUMANITIES COURSE

DESIGNATION, SEE CO-OPERATIVE PROGRAMME IN ARTS ADMINISTRATION (page 56)

Courses Not Offered in 1992/93

DRAB03Y The History of Threatre I Exclusion: DRM264, 266 DRAB06Y Theatre in Canada Exclusion: DRM268 DRAC02Y The Directors' Theatre Exclusion: DRM230 (DRAB02Y)

Economics

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

There are certain courses that are central to the curriculum; the introductory courses (ECOA02Y or ECOA03Y); the initial B-level courses - Price Theory (ECOB03Y or ECOB04Y) and Macroeconomic Theory and Policy (ECOB07Y or ECOB08Y); at least one course that provides a different perspective either on contemporary economic theory, or on ways of organizing economic activity - Economic History (ECOB81Y, ECOB82Y, ECOC83Y), the Literature of Economics (ECOC25F, ECOC26S), Comparative Economic Systems (ECOB68S). 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).

In the first year, specialist students in Economics, Economics and Mathematics, Economics and Ouantitative Methods. Management and Economics, and Management and Economic Theory should generally take ECOA02Y (the mathematical version of the introductory course). although students who choose ECOA03Y (the non-mathematical version) will be able to enter those specialist programs if they have completed calculus. We encourage these specialists to take MATA26Y

(calculus) and further math courses, although Specialist in Economics, Management and Economics and Management and Economic Theory can enter the program with MATA28Y. Economics Majors and Specialist in Economics and History and in Economics and Political Science do not require calculus, so that students may take ECOA03Y in their first years of those specialities.

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

All economics programmes have limited enrollment. Students admitted to the programmes are guaranteed access to enough courses to complete their programme. Remaining spaces in the courses are allocated on the basis of economics grades to non-programme students. The Supervisor of Studies makes decisions on programme admission only twice per year, in May and August, based on programme requests received by the Registrar, (see winter pre-registration instructions from Registrar). Only transfer students are considered at other times. Students with more than 10 credits will not normally be admitted to the economics major. However, non-programme students may still receive an economics major if they are able to complete the programme requirements. Non-programme students are warned that they will be admitted to B-level and C-level Economics courses only after programme students have registered for these courses and that some courses may thus be unavailable, or available only in the summer. The Supervisor of Studies will not approve programme exceptions for nonprogramme students.

Specialist Programme in Economics

Supervisor: S. Horton NOTE: Registration in this Programme is

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y. Students with 7-10 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y and at least one of ECOB04Y and ECOB08Y.

The Specialist Programme in Economics requires a heavy concentration in the discipline. A Specialist Programme

may not be advisable for all students. Students who are interested in Economics and in other areas as well should refer to the Economics course descriptions, and to the Major Programme in Economics.

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

Students must complete at least ten full-course equivalents as specified below and not more than fourteen full-course equivalents in Economics. The following specific courses must be included as part of the ten course minimum: ECOA02Y or ECOA03Y MATA28Y or MATB41F or (MATA27Y) ECOB04Y ECOB08Y ECOB09Y or all 3 of STAB22F and STAB47S and STAC67F ECOB09Y

ECOC25F or ECOC26S ECOC11Y ECOC66F or ECOB68S or ECOB81Y or ECOB82Y or ECOC83Y ECOC13F and ECOC14S ECOD50H

At least one full-course or two half-courses from the following introductory Humanities

CLAA01Y, CLAA02Y, CLAB11F/S, CLAB32F/S, CLAB33F/S, DRAB03Y, DRAB04Y, DRAB06Y, DRAB07Y, ENGA11Y, ENGB07Y, ENGB08Y, ENGB10Y, ENGB11Y, ENGB14Y, ENGB15Y, ENGB20F, ENGB21S, ENGB25F/S, ENGB34F/S, FARB66Y, FREB25Y, FREB36F, FREB37S, FREB82, GERC01, GRHB01Y, GRHB04, HISB04Y, HISB06Y, HISB07Y, HUMA01Y, HUMA03Y, HUMB02Y, HUMB05, HUMB42, ITAC22F, ITAC23S, ITAC31Y, ITAC45F/S, MUSA01Y, MUSA11S, MUSA12F/S, MUSB14F/S, PHLB01F, PHLB03F, PHLB05F, SPAB14F, SPAB15S

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

Specialist Programme in Economics and History Supervisor: S. Horton

NOTE: Registration in this Programme will be limited.

Students must have completed a minimum of four courses to be considered for this

programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y. Students with 7-10 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y and at least one of ECOB03Y/ECOB04Y. ECOB07Y/ECOB08Y. Requirements: Thirteen and one half fullcourse equivalents in a degree programme of at least twenty full-course equivalents of which six and one half are in Economics and seven are in History. Required courses in Economics: ECOA03Y or ECOA02Y ECOB03Y or ECOB04Y ECOB07Y or ECOB08Y ECOB10F/S or ECOB09Y or STAB22F Two full-course equivalents, at least one of which must be in economic history, from the following courses in economic history or the history of economic thought -ECOC25F, ECOC26S, ECOB81Y, ECOB82Y, ECOC83Y. One additional full-course equivalent in

economics. Required courses in History:

HISA01Y and six other full-course equivalents in History, including Greek and Roman History (GRH). Of these six, three must be upper-level courses (these are to be chosen from: HISC11Y - HISC99Y, GRHB24S -GRHC29Y, or HIS300 and 400 level courses on the St. George Campus). One full-course equivalent must deal with the period prior to 1815 (consult the list of pre-1815 courses in the calendar under History). One fullcourse equivalent must correspond generally in area and time period to one of the courses in economic history or the history of economic thought (CHOSEN IN CONSULTATION WITH PROGRAMME SUPERVISOR).

Specialist Programme in Economics and Mathematics Supervisor: S. Horton

NOTE: Registration in this Programme is

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y and MATA26Y. Students with 7-10 course credits will be considered on the basis of GPA including ECOA02Y, MATA26Y and at least one of ECOB04Y and ECOB08Y

This Programme is designed for students considering the possibility of graduate work in mathematical economic

theory. Students must complete at least fourteen and a half full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows: ECOA02Y MATA26Y or (MATA27Y) or (MATA55Y) MATA04Y CSCA06F/S ECOB04Y ECOB08Y (MATB41F and MATB42S and MATB43S) or MATB05Y MATB31F (MATB44) and MATB32S (MATB49) STAB22F and STAB47S ECOC11Y ECOC13F and ECOC14S MATC51F MATC53Y ECOD50H A further one full-course equivalent in ECO One course from among the Humanities options listed for the Specialist Programme.

Specialist Programme in Economics and Political Science

Supervisor: S. Horton

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y. Students with 7-10 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y and at least one of ECOB03Y/ECOB04Y, ECOB07Y/ECOB08Y.

Six full-course equivalents are required in each of the two disciplines.* The specific courses required are listed below. In addition, mention is made of courses in other disciplines that complement the Specialist Programme. Required courses in Economics: ECOA03Y or ECOA02Y ECOB03Y or ECOB04Y ECOB07Y or ECOB08Y ECOC31S, ECOC32F ECOC25F or ECOC26S ECOB35S or ECOC66F ECOB09Y or all 3 of (STAB22F and STAB47S and STAC67S) Required courses in Political Science: POLA50Y POLB70Y or POLC74Y

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

- A Canadian Government, Public Administration - POLB53F/S, POLC52Y, POLC54F/S, POLC55Y
- B Public Administration and Public Policy - POLB53F/S, POLB61F/S, POLB62F/S, POLC60F/S, POLC61F/S, POLC62F/S, POLC63S, POLC64F/S
- C International Relations POLB80Y, POLC82Y, POLC81S, POLC84Y
- D Comparative Politics, Industrialized Countries - POLB86Y, POLB87Y, POLC85Y, POLC87Y, POLC88Y, POLC89Y,
- E Comparative Politics, Developing Countries - POLB91Y, POLC95Y, POLC96Y, POLC98Y, POLD93S, and POLD94S

Related (but not required) courses in other disciplines:

MATA26Y or MATA28Y (MATA27Y), CSCA56F, MGTA01Y

*The maximum number of Economics and Political Science full-course equivalents that can be counted for the four-year degree is sixteen.

Specialist Programme in Economics and Quantitative Methods

Supervisor: S. Horton NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including EOCA02Y, ECOA03Y. Students with 7-10 course credits will be considered on the basis of GPA including ECOA02Y, MATA26Y and at least one of ECOB04Y or ECOB08Y.

This Programme is designed for students considering the possibility of graduate studies in Economics while providing a stronger mathematical orientation than does the Specialist Programme in Economics. Students must complete at least twelve full-course equivalents in Economics, Mathematics, Statistics, Computer Science and Humanities. The specific requirements are as follows: ECOA02Y CSCA58F CSCA68S MATA26Y or (MATA27Y) or (MATA55Y) ECOB04Y ECOB08Y MATA04Y

STAB22F and STAB47S
MATB05Y or both MATB41F and
MATB42S
CSCB28S or CSCB68F
ECOC11Y
ECOC13F
ECOC14S
One half-course from: CSCC34F,
CSCC51S, CSCC78F,
MATB43S, MATC53Y, STAC42F,
STAC52F
ECOD50H
One course from among the Humanities
options for the Specialist Programme.

Specialist Programme in Management and Economics Supervisor: TBA Registration in this Programme is limited. Selection will be based on all grades including the following prerequisite courses: MGTA01, ECOA02 or ECOA03, and MATA26 or MATA28. Students who have completed more than ten credits will not normally be considered for admission to the Specialist Programme. Please refer to Management.

Specialist Programme in Management and Economic Theory Supervisor: TBA

Registration in this Programme is limited. Selection will be based on all grades including the following prerequisite courses: MGTA01, ECOA02 (though ECOA03 will be accepted in special cases), and MATA26 or MATA28. Students who have completed more than ten credits will not normally be considered for admission to this Programme. Please refer to Management.

Major Programme in Economics Supervisor: TBA

NOTE: Registration in this Programme is limited.

Students must have completed a minimum of four courses to be considered for this programme. Students with 4-6 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y. Students with 7-10 course credits will be considered on the basis of GPA including ECOA02Y/ECOA03Y and at least one of ECOB03Y/ECOB04Y, ECOB07Y/ECOB08Y.

This Programme is designed to give a coordinated exposure to the subject matter of Economics to students pursuing the three-year degree or to those pursuing the four-year degree with more than a single area of concentration.

The Programme consists of six fullcourse equivalents in Economics, and one in Humanities. The Economics courses must include: ECOA03Y or ECOA02Y ECOB03Y or ECOB04Y ECOB07Y or ECOB08Y ECOB09Y or all 3 of (STAB22F and STAB47S and STAC67F) and one full-course equivalent chosen from the C- level courses in Economics. The Humanities course must be selected from the options listed for the Specialist Programme. Where students are enrolled in Majors in both Economics and Management, the same course may be used to satisfy the distributional requirement, without counting against the regulation that only two courses used to satisfy programmes may overlap (see Programme Requirements, Regulations concerning Programmes of Study, item 2, earlier in the Calendar). It is recommended, but not required, that a student also include one course chosen from ECOC66F, ECOB68S, ECOB81Y, ECOB82Y, ECOC83Y.

ECOA02Y Introduction to Economics: A Mathematical Approach

Telephone ID #: 04310263
A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed include: unemployment, inflation, pollution, poverty, monopoly. A mathematical approach to economic analysis is used in this course and it is oriented principally towards students who plan to enter the various specialist programmes in Management and in Economics.

Exclusion: (ECOA01Y) ECOA03Y; ECO100

Exclusion: (ECOA01Y) ECOA03Y; ECO100 Prerequisite: OAC Calculus and one of OAC Algebra and Geometry or OAC Finite Mathematics.

Corequisite: MATA28Y or MATA26Y Session: Winter Day

ECOA03Y Introduction to Economics Telephone ID #: 04310363

A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, pollution, poverty, monopoly. Exclusion: (ECOA01Y) ECOA02Y; ECO100 Session: Summer Evening, Winter Day, Winter Evening

IDSB01Y Political Economy of International Development

Telephone ID #: 08120163 Introduces students to major development problems, the principal social, economic, and political factors that condition these, and to the impact on them of various development strategies pursued in a sample of Third-World countries.

NOTE: This course counts no more than half a full- course equivalent in Economics for any Economics programme.

Prerequisite: One full-course equivalent in either Economics or Political Science

Session: Winter Day

ECOB03Y Price Theory

Telephone ID #: 04320363
Intermediate level development of the principles of microeconomic theory. Initially the primary emphasis is on static partial equilibrium analysis, but general equilibrium analysis is developed later in the course. The topics covered are: consumer theory, theory of production, theory of the firm, theories of competition, monopoly and oligopoly, factor prices and welfare economics. Class size is limited to 80 per section.

Exclusion: ECOB04; ECO200, 206 Prerequisite: ECOA02Y or ECOA03Y (ECOA01Y)

Session: Summer Evening, Winter Day,

Winter Evening

ECOB04Y Price Theory: A Mathematical Approach

Telephone ID #: 04320463 Intermediate level development of the principles of microeconomic theory. This course will cover the same topics as EOCB03Y, but will employ techniques involving calculus so as to make the theory clearer to students.

Exclusion: ECOB03; ECO206
Prerequisite: ECOA02Y; students who completed ECOA03Y may enfol in ECOB04Y if they simultaneously enrol in MATA28Y.

Session: Winter Day

ECOB07Y Macroeconomic Theory and Policy

Telephone ID #: 04320763
An exposition of macroeconomic theory with detailed discussion of the theory of output, employment and the price level, and of policy techniques for influencing and controlling the levels of these variables. There is some discussion of Canadian institutions and markets as well as of the policy experiences of Canada and other

countries. Class size is limited to 80 per section.

Exclusion: ECOB08Y; ECO202, 208 Prerequisite: ECOA02Y or ECOA03Y Session: Winter Day, Winter Evening

ECOB08Y Macroeconomic Theory and Policy: A Mathematical Approach Telephone ID #: 04320863

Intermediate level development of the principles of macroeconomic theory and policy. This course will cover the same topics as ECOB07Y, but will employ techniques involving calculus so as to make the theory clearer to students.

Exclusion: ECOB07Y; ECO208

Prerequisite: ECOA02Y; students who completed ECOA03Y may enrol in ECOB08Y if they simultaneously enrol in MATA28Y

ECOB09Y Quantitative Methods in Economics

Session: Winter Day

Telephone ID #: 04320963
An introduction to probability, statistics, and regression analysis as used in economic analysis. Topics to be covered include: probability, special probability distributions (normal, binomial), sampling theory, confidence intervals, hypothesis testing (parametric and non-parametric methods), ANOVA, simple and multiple regression. There will be a number of computer assignments.

Limited enrolment: 80 per section.

Exclusion: ANTC35(ANTB43); ECOB10, ECOB11, ECOB12; GGRB31; PSYB07; SOCB06; STAB22; STAB47 and STAC67 Prerequisite: ECOA02 or ECOA03 (ECOA01)

Session: Winter Day and Winter Evening

ECOB10F Quantitative Methods in Management

Telephone ID#: 04321033
An introduction to statistics and regression analysis as used in economic analysis. The course will cover material similar to ECOB09 but in somewhat less depth. Topics to be covered include: summary statistics, special probability distributions (normal, binomial), confidence intervals, hypothesis testing (parametric), and simple and multiple regression. There will be a

number of computer assignments. Limited enrolment: 80 per section. Exclusions: ANTC35 (ANTB43); ECOB11, ECOB12, ECOB09; GGRB31; PSYB07; SOCB06; STAB22

Prerequisites: ECOA02 or ECOA03 (ECOA01)

(ECOAUI)

Session: Winter Day

ECOB12S Quantitative Methods in Economics: II

Telephone ID #: 04321253
An introduction to statistics and regression analysis as used in economic analysis.
Topics to be covered include: analysis of variance (ANOVA); the simple regression model, testing of hypotheses in the regression model, an introduction to multiple regression. This course will include a series of computer-oriented assignments to give the student familiarity with practical problems in regression analysis.

Limited enrolment: 80 per section. Exclusion: ECO227; ECO220.

Prerequisite: Registration in one of the programmes in Economics and/or Commerce, or Administration; also ECOB09Y (ECOB11), or STAB22 and STAB47

NOTE: This course will not be offered after 1992/93

Session: Winter Evening

GGRB27F Location and Spatial Development

Telephone ID #: 06922733
An examination of the use of competitive location theory in the analysis of regional economic growth and decline. Topics include Ricardian rents and spatial equilibrium, trade flows and spatial price equilibrium, geographical market areas and spatial pricing policies, the location of a firm with mobile resources, industry location in equilibrium, trade theory and regional specialization, and the regional growth theories of Borts-Stein and Myrdal. Two hours of lectures and one tutorial hour per week.

(N.B. This course may count as a half-course in Economics for all Economics and Management Programmes.)

Prerequisite: ECOA02 or ECOA03

(ECOA01)

Session: Winter Day J. Miron

ECOB68S Comparative Economic Systems Telephone ID #: 04326853

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.

Exclusion: ECO330

Prerequisite: ECOA02 or ECOA03

(ECOA01)

Corequisite: ECOB03 Session: Winter Day

ECOB81Y North American Economic History

Telephone ID #: 04328163
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.

Exclusion: ECO221, ECO222, ECO305

Prerequisite: ECOA03 Session: Winter Evening

MGTC03F Principles of Finance

Telephone ID #: 33530333
The objective of this course is to provide students with the theories and skills to make optimal corporate financial decisions. It deals with general approaches for valuing cash flows.

Enrolment is limited to students in programmes requiring this course. Exclusion: MGTC02 (JCEC02) Prerequisite: MGTB03 (MGTB01 or COMB01), ECOB03 or ECOB04 Session: Winter Day

MGTC09S Intermediate Finance

Telephone ID #: 33530953
This course provides a detailed examination of approaches for dealing with financial decisions faced by the corporation.
Included are issues such as capital budgeting, leasing, mergers and acquisitions, and alternative financing methods.

Exclusion: MGTC02 (JCEC02) Prerequisites: MGTC03, ECOB09Y (ECOB11)

Session: Winter Day

ECOC11Y Econometrics

Telephone ID #: 04331163 A formal development of multiple regression analysis using matrix algebra. Application of statistical techniques in testing economic theory. The implications and treatment of special statistical problems that arise in estimating economic relationships. A research paper is required. Exclusion: ECO327 Prerequisite: ECOB03 or ECOB04, ECOB07 or ECOB08, ECOB12, MATA04Y or MATB41 or permission of instructor Session: Winter Day

ECOC13F Advanced Microeconomic Theory

Telephone ID #: 04331333
An upper level extension of the ideas studied in ECOB03. The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.

Exclusion: ECO326

Prerequisite: ECOB03 or ECOB04; ECOB11; MATA28 or MATA26 (MATA27) or (MATA55)

Session: Winter Day

ECOC14S Advanced Macroeconomic Theory

Telephone ID #: 04331453
Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories, and the uses of macroeconometric models. Exclusion: ECO325

Prerequisite: ECOB03 or ECOB04; ECOB07 or ECOB08; ECOB09 (ECOB11); MATA28 or MATA26 (MATA27) or (MATA55)

Session: Winter Day

ECOC25F History of Economics I: Adam Smith to Karl Marx

Telephone ID #: 04332533 A study of the literature of classical Political Economy, especially the work of Adam Smith, Malthus, Ricardo, J.S. Mill, and Marx.

Exclusion: ECO322 Prerequisite: ECOB03 or ECOB04 or

ECOB07 or ECOB08

Corequisite: ECOB03 or ECOB04 or ECOB07 or ECOB08 (whichever is not used to satisfy the prerequisite).

Session: Winter Day

ECOC26S History of Economics II: Origins of Modern Economic Theory Telephone ID #: 04332653

A study of classical literature of Political Economy between 1870 and the 1930's, especially the work of Jevons, Walras, Marshall, Wicksell and the early Keynes.

Exclusion: ECO322

Prerequisite: ECOB03 or ECOB04 or

ECOB07 or ECOB08

Corequisite: ECOB03 or ECOB04 or ECOB07 or ECOB08 (whichever is not used

to satisfy the prerequisite). Session: Winter Day

ECOC31S Economics of the Public Sector: Taxation

Telephone ID #: 04333153

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. Limited enrolment: 60.

Exclusion: ECO236 Prerequisite: ECOB03 or ECOB04

Session: Winter Evening

TBA

ECOC32F Economics of the Public Sector: Expenditures

Telephone ID #: 04333233

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. Limited enrolment: 60.

Exclusion: ECO236

Prerequisite: ECOB03 or ECOB04

Session: Winter Evening

ECOC37S Law and Economics

Telephone ID #: 04333753 A study of laws and legal institutions from

an economic perspective. Includes the development of a positive theory of the law suggesting that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is examined. Topics covered are drawn from: externalities, property rights, environmental law, contracts, torts, product liability and consumer protection, criminal law, and procedure. Limited enrolment: 60.

Exclusion: ECO320

Prerequisite: ECOB03 or ECOB04 (ECOB03 or ECOB04 will be accepted as a corequisite when ECOC37 is taught in the second term of the winter session)

Session: Winter Evening

ECOC41F/S Industrial Organization

Telephone ID # for ECOC41F: 04334133 Telephone ID # for ECOB41S: 04334153 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.

Limited enrolment: 60. Exclusion: ECO310

Prerequisite: ECOB03 or ECOB04

Session: Winter Evening

ECOC51F Labour Economics I

Telephone ID #: 04335133 Applications of the tools of microeconomics to various labour market issues. The topics covered will include: fertility and family formation; labour supply; labour demand; equilibrium in competitive and non-competitive markets; non market approaches to the labour market; unemployment. Policy applications will include: income maintenance programmes; minimum wages; unemployment insurance benefits; poverty. Limited enrolment: 60

Exclusion: ECO239, 339 Prerequisite: ECOB03

Corequisite: ECOB09Y/ECOB10F/S or

permission of instructor Session: Winter Day

ECOC52S Labour Economics II

Telephone ID #: 04335253 A continuation of ECOC51S. Topics covered will include: unions; wage structures; sex and race discrimination; human capital theory; investment in education. Policy issues discussed will include: pay equity; affirmative action; training initiatives; migration. Limited enrolment: 60 Prerequisites: ECOC51 or permission of instructor. Recommended preparation ECOB09 (ECOB11/B12), ECOB10 or equivalent.

Session: Winter Day

MGTC54Y Industrial Relations

Telephone ID #: 33535463

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 a collective bargaining simulation exercise.

Limited enrolment: 80. This course will count as a full course in Economics for Economics Programmes.

Exclusion: (JCEC54)

Prerequisite: Completion of at least ten fullcourse equivalents including ECOA01 or

ECOA02.

Session: Winter Evening

ECOC61S International Economics: Finance

Telephone ID #: 04336153 Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange-rate determination in a world of flexible exchange rates; the forward exchange market. The international monetary system: fixed "versus" flexible exchange rates; international capital movements, eurocurrency markets and their

implications for monetary policy. Limited

enrolment: 60. Exclusion: ECO328

Prerequisite: ECOB07 or ECOB08

Session: Winter Day

ECOC62F International Economics: Trade Theory

Telephone ID #: 04336233 An outline of the standard theories of international trade: analysis of the factors on which a country's trade with other countries is based and the welfare implications of this trade; and empirical tests of these theories. Economic growth and international trade. The instruments and effects of trade policy (tariffs, quotas, nontariff barriers); the theory of customs unions. Limited enrolment: 60.

Exclusion: ECO328 Prerequisite: ECOB03 or ECOB04

Session: Winter Day

ECOC66F Economic Development

Telephone ID #: 04336633

An introduction to the processes of growth and development in less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the roles of agriculture and industry. Limited enrolment: 60.

Exclusion: ECO324 Prerequisite: ECOB03 or ECOB04

TBA

Session: Winter Day

ECOC67S Development Policy

Telephone ID #: 04336753

A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the most important policies including those relating to population growth, international trade and investment, public finance, education, and technology. Limited enrolment: 60. Exclusion: ECO324

Prerequisite: ECOC66 Session: Winter Day

ECOD11F and ECOD12S 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

ECOD50H Workshop in Economic Research

Telephone ID #: 04345043

This course discusses with students the techniques used by economists to define research problems and to do research. In the first term, various members of the staff will discuss their approaches to research. At the end of the term, students will choose a research problem and a faculty member with whom to work. During the second term, students will research and write papers on their topic and present their ongoing work to other members of the class. Prerequisite: ECOB04 and ECOB08 (or ECOB03 and ECOB07 and first year calculus); ECOB12. This course should be taken among the last 5 courses of a twenty course degree.

Session: Winter Day

Courses Not Offered in 1992-93

ECOB35S Public Decision Making Prerequisite: ECOA02 or

ECOA03 (ECOA01)

ECOB82Y European Economic History Exclusion: ECO101, 201,

Prerequisite: ECOA02 or ECOÁ03 (ECOA01)

ECOC48F/S Monetary Economics

Exclusion: ECO348H Prerequisite: ECOB07

ECOC83Y Economic History 1914-1971 Exclusion: (ECOB83): ECO342 Prerequisite: ECOA03 and 3 B-level courses in Economics or History.

English

Discipline Representative: W.J. Howard (287-7156)

The study of English encompasses English, Canadian, and American literatures as well as other literatures written 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) that allow students to pursue individual interests at greater depth. In all courses, emphasis is placed on close responsive reading, critical thinking, and clarity of expression.

The A-level course introduces all students to the study of English at the university level. The course is designed both for students planning a Specialist or Major Programme in English and for students having a general interest in the

subject.

English B01Y and B02Y are required for all students planning a Specialist or Major Programme in English.

Other B-level courses require no prerequisite and are therefore available both to beginning and to more advanced students. C-level courses, as their prerequisites indicate, are designed to build upon previous work in English and presuppose some background in critical skills and some familiarity with the subject matter. D-level courses (which are equivalent to 400-level courses on the St. George Campus) provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally restricted in enrolment and may involve the presentation of seminars.

Students are advised to consult the prerequisites for C and D-level courses when planning their individual programmes, and to check with the Discipline Representative before taking courses on other campuses.

The Specialist programme in English offers an opportunity to develop skills in close responsive reading, critical thinking and clarity of expression. It encompasses the rich tradition of many literatures which use the English language as the medium of expression.

Specialist Programme in English Supervisor: W.J. Howard (287-7156) Ten full-course equivalents in English and two in other disciplines in the Division of Humanities are required. They should be selected as follows.

1 ENGA11Y Reading Literature: The 20th Century

2 ENGB01Y Critical Thinking 3 ENGB02Y English Literature: Historical Survey

4 ENGC59Y English Literary Criticism

5 Four additional full-course equivalents in English at the A, B, or C-level,

a) two full-course equivalents in periods before 1800, one of which must be at the C-level (see list A)

b) two full-course equivalents in periods after 1800, one of which must be at the C-level (see list B)

6 Two full-course equivalents in English at the D-level

7 Two full-course equivalents in other Humanities disciplines. The following are particularly recommended:

CLAA02Y Greek and Roman Mythology CLAB11F/S The Classical Element in English

CLAC03Y Greek and Roman Epic Greek and Roman Tragedy CLAC04Y HISB02Y Britain from the

Eighteenth Century to the

Present Tudor and Stuart England

HISC23Y (Prerequisite: One B-level history course)

HUMA01Y Prologue HUMA03Y Prologue II: East Asia and

the Middle East LINA01Y General Linguistics PHLB03F/S Philosophy and Art

PHLB04F/S Philosophy of Literature WSTA01Y Introduction to Women's

Studies

Alternatively, students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Major Programme in English Supervisor: W.J. Howard (287-7156) Seven full-course equivalents in English are required. They should be selected as follows:

1 ENGA11Y Reading Literature: The 20th Century 2 ENGB01Y Critical Thinking

3 ENGBO2Y English Literature: Historical Survey

4 Three additional full-course equivalents in English at the B, or C-level, one of which must be at the C-level. These four courses must include:

a) one full-course equivalent in periods before 1800 (See List A)

b) one full-course equivalent in periods after 1800 (See List B)

5 One full-course equivalent in English at the D-level

LIST A:

Pre-1800 courses:

ENGB10Y Shakespeare ENGC30Y Chaucer ENGC32Y Prose and Poetry of the English Renaissance 1500-1660

ENGC33Y English Drama to 1642 ENGC36F/S English Literature of the Early 18th Century

ENGC37F/S English Literature of the Late 18th Century

ENGC38Y Fiction before 1832

LIST B:

Post-1800 courses:

ENGB07Y Canadian Literature in English: an Introduction ENGB08Y American Literature: an Introduction ENGB20F/S Contemporary Literature in English: Africa and the West Indies ENGB21F/S Contemporary Literature in

English: Australia and India ENGB25F/S The Canadian Short Story

ENGB26F/S Canadian Drama ENGB34F/S The Short Story

ENGC02Y Canadian Fiction in English ENGC12Y Major American Authors

ENGC42Y The Romantics ENGC43Y Victorian Poetry ENGC46Y Fiction 1832-1900

ENGC50Y Modern Drama ENGC51Y Twentieth-Century Poetry

ENGC52Y Fiction 1900-1960 ENGC53F/S British Fiction Since 1960

ENGC54F/S American Fiction Since 1960

ENGC55F/S Drama Since 1960

ENGA11Y Reading Literature: The 20th Century

Telephone ID #: 05511163

An introduction to literary and cultural concerns in the twentieth century through a study of selected works written in English, from the beginning of the century to the present day.

What is involved in the activities of reading and writing? What is the relationship between what we read and how we make sense of ourselves? How does literature in the twentieth-century challenge and shape our notions of truth and perceptions of reality? These are some of the questions the course will explore. The course will include works by men and women of different cultural backgrounds and nationalities.

All sections of the course will require a selection of written assignments and a final examination.

Note: This course is designed to accommodate any student with an interest in reading at the university level. It is also the prerequisite to B01Y, the required introductory course for majors and specialists in the English Programme. Exclusion: (ENGA01, A02, A08), ENG102 Session: Winter Day Course Co-ordinator: K. Theil Offered 1993/94 and 1994/95

ENGB01Y Critical Thinking and Writing Telephone ID #: 05520163

Through the reading of poetry, fiction and essays students will learn how to discuss works of literature, and how to present their views accurately and cogently in writing.

This course is a required course for all Major and Specialists in English.

In the first term there will be a strong emphasis on vocabulary development and grammatical accuracy through various written exercises. The development of aesthetic responses to literary texts will also be an important aim of this course.

The art of rewriting will be encouraged to develop competence, and students who have not maintained a grade of C in the first term will be counselled to drop the course.

The second term will focus on a major work of literature. In addition to expanding the writing skills learned in the first term, we will explore a variety of critical approaches to the selected text.

Exclusion: (ENGA01Y) Prerequisite: ENGA11Y Session: Winter Day

J. Kay

Offered 1993/94 and 1994/95

ENGB02Y English Literature: Historical Survey

Telephone ID #: 05520263 A survey of English literature from the Middle Ages to the twentieth century, in the context of relevant intellectual, aesthetic, social, and political developments. Normally taken in conjunction with

ENGBOÍY.

This course provides a general introduction to the main periods of English literary history -- the Medieval, Renaissance, Restoration, Eighteenth-Century, Romantic, Victorian, and Modern periods. Reading will be extensive, involving brief selections from approximately fifty writers. The primary text is The Norton Anthology of English Literature (Fifth Edition), Vols. 1 and 2; further texts will be announced.

Note: This is exclusively a lecture and examination course. Students are advised to combine this course with English B01Y in order to include group discussion, detailed textual study, and practice in essay writing in their study of English. Session: Winter Day W.J. Howard Offered 1993/94 and 1994/95

ENGB08Y American Literature: An Introduction

Telephone ID #: 05520863 A broad survey of the development of literature in America from the early Colonial period to the twentieth century.

The reading will include excerpts from journals, letters and various historical documents presented as cultural and historical background to the issues explored in American literature. Questions to be explored include: What is the make-up and significance of the American Dream? What is distinct about the American Hero? How are such human dilemmas as good versus evil, or sin versus redemption, presented and interpreted in an American context? Shorter works from a wide variety of writers will be featured (Mather, Bradstreet, Dickinson, Twain, James, O'Connor, Fitzgerald) as well as several longer works intended to represent some of the many different cultural points of view operating within the framework of the American experience (Moby Dick, The Sun Also Rises, Native Son, Catcher in the Rye, The Bluest Eye, Tripmaster Monkey, Empire of Senseless).

Session: Winter Day G. Leonard

Not offered 1993/94 or 1994/95

ENGB10Y Shakespeare

Telephone ID #: 05521063 A study of at least eleven plays by Shakespeare, both as unique works of art and in the larger context of his work as a Renaissance dramatist.

A list of Texts will be available in H525A.

Exclusion: ENG220 Session: Winter Day M. Gadpaille

Offered 1993/94 and 1994/95

ENGB11Y Varieties of Drama

Telephone ID #: 05521163

A study of drama from ancient Greece to the

present day.

The course introduces students to a wide range of drama through the study of at least twelve plays, including, Sophocles, Oedipus the King; Aristophanes, Lysistrata; Shakespeare, King Lear, As You Like It; Wilde, The Importance of Being Earnest; Beckett, Krapp's Last Tape; Miller, Death of a Salesman; Williams, A Streetcar Named Desire: Pinter, The Homecoming; Churchill, Cloud Nine; and at least one Canadian play. Students are encouraged to think about the relationship between dramatic texts and their theatrical production, and to consider the relevance of generic labels, such as tragedy, comedy, tragi-comedy, and such concepts as realism, expressionism, and the theatre of the absurd.

Exclusion: DRM100, ENG222

Session: Winter Day

K. Theil

Offered 1993/94 and 1994/95

ENGB14Y Varieties of Fiction

Telephone ID #: 05521463 A study of fictional strategies and techniques, drawing on a wide range of examples from early periods of narrative to the present day.

About 16 works will be studied, including short stories, novels, and novellas. Emphasis will be placed on the forms and conventions of fiction rather than on chronological development and historical background. The course will consider such aspects as the significance of beginnings and endings, the role of the narrator, and the relationship between realism and fantasy.

Texts to be announced. Session: Winter Day A. Thomas Offered 1992/93 and 1993/94

ENGB25F The Canadian Short Story

Telephone ID #: 05522533 A study of contemporary short stories written by Canadian authors.

This course will not be a historical survey, but an examination of collections by eight of the contemporary writers whose work has brought the Canadian short story into international prominence. Attention will also be paid to technical aspects of the short story as a literary form.

The course will use single author collections rather than an anthology. Reading will begin with Alistair MacLeod's The Lost Salt Gift of Blood and will include selections from: Alice Munro, The Moons of Jupiter; Margaret Atwood, Bluebeard's Egg; Mavis Gallant, The End of the World and Other Stories; and Hugh Hood, Flying a Red Kite.

Exclusion: ENG215 Session: Winter Day TBA

Not offered 1993/94 and 1994/95

ENGB34S The Short Story

Telephone ID #: 05523453 An introduction to the short story as a literary form.

The course examines the special appeal of the short story for writers and readers, the particular effects it is best able to produce, and its origins and recent development. The reading will be drawn from different countries and periods in order to explore the variety of possibilities within the form.

Session: Winter Day and Summer Evening TBA

Offered Summer 1993/94 and Winter 1993/94

Not offered 1994/95

ENGB50Y Women and Literary Study

Telephone ID #: 05525063 A discussion of the work of women writers. and the history of women as students, teachers and writers of literature.

Through a variety of texts (fiction, poetry, drama, criticism) we will explore issues such as "women's writing," and women's relationship to language and a literary tradition that has historically been male dominated. Selections from: Aphra Behn, Mary Shelley, Kate Chopin, George Eliot, Zora Neale Hurston, Virginia Woolf, Anais Nin, Jane Rule, Angela Carter, Sylvia Plath, Lorna Crozier and Caryl Churchill. Exclusion: ENG258

Session: Winter Day, Summer Evening

Offered Summer 1992/93 and Winter and Summer 1993/94

ENGB60Y Creative Writing

Telephone ID #: 05526063 An introduction to the writing of poetry and short fiction.

This course will provide students with the experience of writing, discussing and revising their own work in a group workshop. Exercises to be assigned will bear on special questions of technique and form and there will also be discussion of the work of some contemporary writers and visits by writers.

Limited enrolment: 16 Exclusion: (HUMB80), (LITB60Y) Prerequisite: Permission of instructor. A

short sample of creative writing should be submitted, normally by August 1. For further information, contact

Professor R. Brown. Session: Winter Evening R. Brown

Not offered 1993/94 Offered 1994/95

ENGC02Y Canadian Fiction in English

Telephone ID #: 05530263 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 centuries, to the contemporary period of new exploration and consolidation.

The course examines authors confronting the problems of finding a fictional form and voice for their responses to Canada and of locating themselves in a viable tradition; it focuses on several contemporary novelists both in terms of that tradition and through close readings of specific novels.

Texts will include Ross, As for Me and My House; Callaghan, Stories; MacLennan, Two Solitudes; Atwood, Surfacing; Ondaatje, Running in the Family.

Exclusion: (ENGB27)

Prerequisite: One full-course equivalent in English.

Session: Winter Day

Not offered 1993/94 or 1994/95

ENGC30Y Chancer

Telephone ID #: 05533063 A study of most of the Canterbury Tales. The Book of the Duchess, The House of Fame, The Parliament of Fowls, the Prologue to the Legend of Good Women, Troilus and Criseyde. Background

readings: Roman de la Rose, Consolation of Philosophy (in translation.) Texts: F.N. Robinson, ed. The Works of Chaucer.

Chaucer's poems are studied mainly as artistic productions, but also in relation to their historical and intellectual backgrounds. Prerequisite: (ENGA01, ENGA02); **ENGA11Y** Session: Winter Evening E.P. Vicari Offered 1993/94 Not offered 1994/95

ENGC33Y English Drama to 1642

Telephone ID #: 05533363

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. The texts are: Shakespeare, Comedy of Errors, Love's Labour's Lost, Much Ado about Nothing, Measure for Measure, Othello, The Winter's Tale; Brooke and Paradise, English Drama 1580-1642.

Prerequisites: (ENGA01, ENGA02); ENGA11Y or ENGB11 Exclusion: (ENGB12) Session: Winter Day TBA

Offered 1993/94

ENGA11Y: or ENGB15

ENGC36F English Literature of the Early Eighteenth Century

Telephone ID #: 05533633 A study of English poetry, prose, and drama 1700-1745.

In this course we will study the crosscurrents of a period in which a literary tradition essentially aristocratic and classical confronted a social structure and readership increasingly middle class. Among other subjects we will consider: the high satire of Pope and Swift; the growth of magazine writing; the changes and decline in drama because of government censorship; the rise of the novel; the close involvement of literature with politics, morality and social values. To help understand the period there will be illustrated lectures on music, art and architecture. Exclusion: (ENGB72) Prerequisites: (ENGA01, ENGA02),

Session: Winter Day J. Kav Not offered 1993/94 or 1994/95

ENGC37S English Literature of the Late Eighteenth Century

Telephone ID #: 05533753 A study of English poetry, prose and drama

from 1745-1800.

Through a study of poetry, drama, journals, speeches, and excerpts from novels, we will try to understand the literature of the later 18th Century. Our concern will be with such topics as: the sense of sensibility; the impact of the American and French revolutions on writing; the notion of the sublime in writing; the city as locus and problem in literature; the growth of "horror"; the development of meditative poetry. Lectures on music, art and architecture will help to understand the period. Exclusion: (ENGB73) Prerequisites: (ENGA01, ENGA02), ENGA11Y; or ENGB15 Session: Winter Day

ENGC46Y Fiction 1832-1900

Not offered 1993/94 or 1994/95

Telephone ID #: 05534663

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

This course cultivates an understanding of the English novel in its most assured period of creation through study of the following works: C. Bronte, Jane Eyre; E. Bronte, Wuthering Heights; Thackeray, Vanity Fair; G. Eliot, Middlemarch; Dickens, David Copperfield, Hard Times; Caroll, Alice in Wonderland; Hardy, Far from the Madding Crowd, Jude the Obscure; Moore, Esther Waters.

Students are advised to read as many of these novels as possible before classes begin. Exclusion: (ENGB16) Prerequisites: (ENGA01, ENGA02), ENGATIY; or ENGB14; or HISD21 Session: Winter Day A. Thomas Offered 1993/94 Not offered 1994/95

ENGC50Y Modern Drama

Telephone ID #: 05535063 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 the present. Central to the course

is a definition of such terms as realism. expressionism, the theatre of the absurd, and epic theatre, as they may be usefully applied to the work of major modern playwrights. Texts will include: Ibsen, A Doll's House; Chekhov, The Three Sisters; Strindberg, The Fathers; Brecht, Galileo; plays by Pirandello, Shaw, Pinter, T. Williams, Stoppard, Churchill. Exclusion: (ENGB31) Prerequisites: (ENGA01, ENGA02 or ENGA08), ENGA11Y; or ENGB11 Session: Winter Day M.S. Tait Not offered 1993/94 or 1994/95

ENGC51Y Modern Poetry

Telephone ID #: 05535163 An analytical study of poetry from the advent of the modern period.

The course will explore the modern tradition in twentieth-century poetry, from its beginnings with Yeats, Eliot, Stevens, and Williams to the present. The course will consider the change in poetic theory and practice that took place in the first two decades of this century, and the development of the poets studied. In addition, individual poems will be studied in detail.

Exclusion: (ENGB32) Prerequisites: (ENGA01, ENGA02 or ENGA08), ENGA11Y; or ENGB15 Session: Winter Day M.S. Tait Not offered 1993/94 or 1994/95

ENGC59Y English Literary Criticism Telephone ID #: 05535963

A study of the central issues of literary theory and criticism, their importance in English literary history, and their relationship to European thought.

What are the major issues and movements in literary theory? How have the questions critics have asked changed over time? The course aims at discussing the assumptions about literature and writing that are reflected in any critical position. Readings will be selected to acquaint students with both current critical debates and the history of theory and criticism. Exclusion: (ENGB95), ENG270 Prerequisite: (ENGA01, ENGA02), ENGA11Y, and two further full-course equivalents in English. Session: Winter Day E. P. Vicari Offered 1993/94 and 1994/95

ENGD30S Dickens

Telephone ID #: 05543053 A study of three major novels. In this seminar course Nicholas Nickleby, David Copperfield, and Little Dorrit will be examined for their particular content of sentiment, humour, expose, and sensation and the general themes and developments of narrative method they reveal. Other reading in Dickens, for instance, Great Expectations, will be useful, as will some knowledge of Victorian England. Videos of Nickleby and Dorrit will be shown. Student assignments will include giving a short seminar report. Limited enrolment: 20.

Prerequisites: (ENGA01, ENGA02), ENGA11Y and two further full-course equivalents in English; or HISB02 or HISD15

Session: Winter Day

A. Thomas

ENGD31F William Wordsworth: Revolutionary and Victorian

Telephone ID #: 05543133 A study of Wordsworth's poetic career from his early work to his later role as Poet Laureate.

The course will examine such topics as: Wordsworth and the French Revolution; his relationship with Dorothy; his relationship with Coleridge: Lyrical Ballads; The Prelude and other long poems; Wordsworth's impact on the Victorian poets; Wordsworth and the Lake District. Limited enrolment: 20 Prerequisites: (ENGA01, ENGA02), ENGA11Y, and three other courses in English. Session: Winter Day John Kay

ENGD47F Naipaul and Achebe

Telephone ID #: 05544733 A study of some of the major novels and short works by V.S. Naipaul and C. Achebe, reflecting their development as artists with social concerns. Readings will include selections from their non-fiction. Limited enrolment: 20 Prerequisites: (ENGA01, ENGA02), ENGA11Y, and two further full-course equivalents in English. Session: Winter Day Wm. J. Howard

ENGD60-89F/S Selected Topics Offered 1992/93 and 1993/94 In 1992/93, these courses will be as follows:

ENGD61S The Existential Adventure Novel in America

Telephone ID #: 05546153

A study of the existential adventure novel in American literature from Melville to the present time.

Many novelists (like Conrad and Malraux) have used the adventure novel as a vehicle for exploring philosophical questions about life. In this course we will study some nineteenth century and contemporary novels from this perspective. Reading includes: Melville, Typee; Crane, The Red Badge of Courage; Hemingway, A Farewell to Arms; Jim Harrison, Sundog; Robert Stone, A Flag for Sunrise; Richard Ford, The Ultimate Good Luck.

Limited Enrolment: 20

Prerequisites: (ENGA01, ENGA02), ENGA11Y and three other courses in

English.

Session: Winter Day

John Kay

ENGD62F Power and Perception: Imperialism, Colonialism and Identity in 20th Century Fiction

Telephone ID #: 05546233 An exploration of multi-cultural perspectives on issues of power, perception, and identity as revealed in literary depictions of imperialism and colonialism in 20th century fiction.

Selections will be deliberately varied both in terms of culture and nationality in order to explore varying and contradictory depictions of the intersection of, and the relationship among, structures of power, cultural assumptions, and myths about identity in such diverse writers as Rudyard Kipling, H. Rider Haggard, V.S. Naipaul, Joseph Conrad, James Joyce, Jean Rhys, Chinua Achebe, George Orwell, Kathy Acker. The point is not to determine whose view is "correct", but rather to deepen our appreciation of how these diverse authors attempt to establish--or seek to challenge-assumptions and preconceptions about the supposedly "inherent" constitution of "the human condition". Selected writings by contemporary literary theorists such as Said, Foucault, Lacan, Irigaray, Benjamin, de Certeau and Baudrillard will be used to augment and refine our approach to this theme.

Limited Enrolment: 20 Prerequisite: (ENGA01, ENGA02) ENGA11Y, and two further full-course

equivalents in English. Session: Winter Day G. M. Leonard

ENGD74S The Twentieth-Century Novella Telephone ID #: 05547453

A study of the medium-length fiction of the twentieth century, with emphasis on the novella as a genre, and close reading of

texts by British, American, and Canadian authors.

Readings will include novellas by Conrad, James, Wharton, Faulkner, Katherine Anne Porter, Malcolm Lowry and Mavis Gallant. Main texts: The Norton Introduction to the Short Novel (2nd. ed); On Middle Ground (Methuen). Limited enrolment: 20 Prerequisites: (ENGA01, ENGA02) ENGALLY, and two further full-course equivalents in English; or any two of: (ENGA08), ENGB14, ENGB34, ENGC02. Session: Winter Day M. Gadpaille

ENGD79S Award-Winning Fiction in English

Telephone ID #: 05547953 Works of fiction from the last two decades that have received major literary prizes, such as the Nobel and Booker Prizes and the Governor General's Award.

The course will focus both on a close analysis of the award-winning texts and on an examination of the critical reception before and after the granting of the award, to see what is revealed about standards, trends, and extra-literary influences. Limited Enrolment: 20 Prerequisites: (ENGA01, ENGA02) ENGALLY, and three further full-course equivalents in English; or two of ENGB14, ENGB20, ENGB21; or ENGC02 (ENGB27); or ENGC52 (ENGB33) Session: Winter Day W. J. Howard

ENGD84F Political Drama in the Age of Thatcher

Telephone ID #: 05548433 A survey of a variety of contemporary British plays written during changes in the political climate in Britain.

Eight plays, employing dramatic methods from agit-prop to surrealism, will be studied, drawn from the works of Barker, Bond, McGrath, Stoppard and others. Limited enrolment: 20 Prerequisite: (ENGA01, ENGA02) ENGA11Y, and two further full-course equivalents in English; or ENGC50 (ENGB31) Session: Winter Day A. Thomas

following less celebrated works: Leprohon: Antoinette de Mirecourt; McClung: Purple Springs; Duncan: A Daughter of Today;

Johnson: Legends of Vancouver; Beckwith: St. Ursula's Convent; Fytche: Kerchiefs to Hunt Souls. A selection of short stories, sketches and critical readings will help in forming a picture of the female reader as well as the woman writer of the pre-modern

ENGD85F Early Canadian Women Writers

A study of neglected prose and prose fiction

by women in Canada in the nineteenth and

include works by a few better-known

authors--Moodie, Brooke and Traill--but

will concentrate on three or four of the

very early twentieth centuries. Reading will

Telephone ID #: 05548533

era in Canada.

Limited enrolment: 20 Prerequisites: (ENGA01, ENGA02) ENGA11Y and two further full-course equivalents in English; or any one of ENGC02Y, ENGB07Y, ENGB50Y,

WSTA01Y. Session: Winter Day

M. Gadpaille

ENGD98Y Senior Essay

Telephone ID #: 05549863 A scholarly project, chosen by the student and supervised by one faculty member. Approval by the faculty in English must normally be obtained by the student before the end of the previous spring term.

The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate a supervisor; advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed: by the last day of the previous spring term a brief statement of the area of the project, signed by the supervisor, is to be sent to Professor W.J. Howard. By November 15th a more specific statement of the project is to be sent to Prof. Howard, 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. Exclusion: (ENGC14), ENG490 Prerequisite: Open only to students completing the last five courses for the four-year degree, and who have at least three

full-course equivalents in English, at least one at the C-level

Session: Winter Day

NOTE: At the D-level, English offers a wide variety of special studies in major writers

and selected topics. A different combination of courses is offered each year in order to provide as much range as possible over a two or three year period. Normally, prerequisites for D-level courses are: (ENGA01, ENGA02) ENGA11Y and two further full-course equivalents in English; or two courses in the area of speciality. For further information, consult the Discipline Representative.

Courses Not Offered in 1992-93

ENGB07Y Canadian Literature in English: An Introduction English Poetry **ENGB15Y** ENGB20F/S Contemporary Literature in English: Africa and the West Indies ENGB21S Contemporary Literature in English: Australia and India Canadian Drama ENGB26F ENGC12Y Major American Authors Exclusion: (ENGB24) Prerequisite: One fullcourse equivalent in English ENG C32Y Prose and Poetry of the English Renaissance, 1500-1660 Exclusion: (ENGB09) Prerequisite: (ENGA01) (ENGA02) or ENGB15 ENGC38Y Fiction before 1832 Exclusion: (ENGB17) Prerequisite: ENGA01, ENGA02; or ENGB14 ENGC42Y The Romantics Exclusion: (ENGB05) Prerequisite: ENGA01, ENGA02; or ENGB15 ENG C43Y Victorian Poetry Exclusion: (ENG309), (ENGB06) Prerequisites: (ENGA01, ENGA02); or ENGB15 ENGC52Y Fiction 1900-1960 Exclusion: (ENGB33) Prerequisite: (ENGA01, ENGA02; or ENGA08); or ENGB14 ENGC53F British Fiction since 1960 Exclusion: (ENGB35) Prerequisite: (ENGA01, ENGA02; or ENGA08); or ENGB14 ENGC54S American Fiction Since

1960

Exclusion: (ENGB36)

ENGC55S

Prerequisite: (ENGA01, ENGA02; or ENGA08); or ENGB14 Drama Since 1960 Exclusion: (ENGB40) Prerequisite: (ENGA01, ENGA02; or ENGA08); or ENGB11; or ENGB26F; or ENGC50 (ENGB31); or one DRA course

Fine Art

Discipline Representative: Fine Art History: M. Shaw (287-7140) Fine Art Studio: D. Holman (287-7177) Fine Art is the field which deals with objects of all sorts that have cultural and aesthetic importance. Because the range of these works is virtually without boundaries, widely divergent approaches come into play in studying them.

Increasingly, however, these approaches emphasize the ways that works of art reflect major social and ideological conditions in their cultures.

At Scarborough College, Fine Art includes both Art History and Studio, two separate but interrelated fields.

Fine Art History

Because art is perceived through the eyes and other senses as well as through the intellect, art history courses commonly present their subjects via slides, films. videos, and direct viewing of art works in galleries and museums and in the cities. Although the course structure reflects a traditional division into time periods, instructors often use new methodologies to explain the work within these periods.

Art history courses at the A-level and B-level are normally open to all students. In addition to the practice in critical thinking and writing provided by all humanities courses, these courses offer basic information about art and architecture in all phases of Western culture, and a chance to improve one's perceptual awareness. Prerequisite for all C-level courses in Art History: one full-course equivalent at the B-level or permission of the instructor.

Students who enrol in the Major and Specialist Programmes should take the half-

courses FARA10, FARA11, FARA12 and FARA13 as early as possible in their university careers, and should consult the Supervisor of Studies when arranging their course sequences.

The Department of Fine Art Undergraduate Handbook summarizes course offerings and resources for Fine Art students on all three University campuses. Woodsworth College also publishes a pamphlet describing Fine Art courses it offers in a summer programme in Siena,

Specialist Programme in Fine Art History

Supervisor: R. Siebelhoff Students must complete twelve full-course equivalents as follows:

- FARA10F; FARA11S; FARA12F; FARA13S
- Four B-level course equivalents in art history, with at least one half-course each in the areas of classical, medieval, renaissance, baroque and modern art.

Students may also meet one-fourth of this requirement by substituting one full-course equivalent from the following list:

FARA90Y Foundation Studies in ANTB38Y Prehistory of North America North of Mexico* ANTB49F Myth and Symbol* FARB92Y Sculpture Concepts* GGRB13Y Modern Urban Landscapes HUMB70Y Introduction to Cinema PHLB03F/S Philosophy and Art PSYB50F/S Sensation and Perception* PSYB51F/S Perception and Cognition* ANTC50F/S Death and Burial* ANTD03Y Analysis of Archaeological Material*

*Check calendar entries for prerequisites

Four full-course equivalents in art history at C/D level (or at the 300/400 level on the St. George campus).

Two full-course equivalents with the approval of the Programme Supervisor.

Major Programme in Fine Art History

Supervisor: R. Siebelhoff Students must complete seven full-course equivalents as follows:

- FARA10F; FARA11S; FARA12F; FARA13S
- Three full-course equivalents at the B level with at least one half full-course equivalent in each of the following areas: Classical Medieval Renaissance
- Modern (1750 to the present) Two full-course equivalents in art history at the C/D level (or at the 300/400 level on the St. George campus).

Baroque

FARA10F Ancient Art and Architecture (ca. 900 B.C. - 300 A.D.)

Telephone ID #: 06211033 The artistic achievements of Greece and Rome.

This course is basic to the study of all subsequent periods of Western Art. It examines Greek architectural design with its concerns for ideal proportion and balance, best exemplified in the well known columnar temples. Next it deals with Roman technical inventiveness, which among other changes made it possible to create large interior spaces and to introduce new types of urban buildings. The course will also show how Classical painting and sculpture affected later culture, through its depiction of myth and legend, and through techniques intended to create for the first time an illusion of the real world. Exclusion: FAH203, FAH204 Session: Winter Evening M.C. Shaw Not offered 1993/94 Offered 1994/95

FARA11S Medieval Art

Telephone ID #: 06211153 A survey of European architecture, sculpture, painting, illumination, and minor arts, from the late Roman Empire to the end of the Middle Ages.

The course examines the origins of European artistic traditions in the early Christian, Mediterranean world; how these traditions were influenced by classical, Byzantine, Moslem and pagan forms; how they developed an entirely new form of artistic expression in the High Middle Ages; and how they led on to the Renaissance. Texts will include E. Kitzinger, Early Medieval Art; R. Krautheimer, Early Christian and Byzantine Architecture; O. von Simson, The Gothic Cathedral, and others.

Exclusion: FAH261 Session: Winter Evening T.B.A.Offered 1993/94 and 1994/95

FARA12F Renaissance and Baroque Art Telephone ID #: 06211233 A survey of architecture, painting and sculpture from 1400 to 1750.

The course will present important monuments, primarily from Italy and the Netherlands, including works by such artists as Jan van Eyck, Leonardo da Vinci, Michelangelo, Rembrandt, and Bernini. Text: Frederick Hartt, Art: A History of Painting, Sculpture, Architecture, Vol. II, 1989 edition. Session: Winter Day T.B.A.

FARA13S Art after 1750

Offered 1993/94 and 1994/95

Telephone ID #: 06211353 A study of European and North American painting, sculpture and architecture from the period of the American and French Revolutions until the present.

By a careful analysis of key works of art, the course will present a view of artistic conditions in major centres throughout the Western world. Text: Frederick Hartt, Art: A History of Painting, Sculpture, Architecture, Vol. II, 1989 edition. Session: Winter Day R. Siebelhoff Offered 1993/94 and 1994/95

FARB15F Renaissance in Italy Telephone ID #: 06221533

The development of painting in Italy, 1420 to 1520.

The course will focus on three major periods: the birth of an Early Renaissance style in Florence as represented by the work of Masaccio, Angelico, Uccello, Castagno; the dissemination of this style outside Florence during the second half of the fifteenth century through artists such as Piero della Francesca and Mantegna; the rise of a High Renaissance style in Florence, Rome, Venice in the works of: Leonardo da Vinci, Raphael, Michelangelo, Titian. Textbook: F. Hartt, History of Italian Renaissance Art: Painting, Sculpture, Architecture, New York 1969. Session: Winter Evening G. Scavizzi Not offered 1993/94 Offered 1994/95

FARB16Y The Arts in Northern Europe ca. 1400-1500

Telephone ID #: 06221663 The Northern Renaissance, with emphasis on the Netherlands.

The course concentrates on the development of painting from Jan van Eyck's brilliantly coloured works to the imaginative subjects of Hieronymus Bosch. The works selected will also illustrate some of the problems faced by students of art, such as the identification of artists on the basis of documents and the analysis of style and subject matter. The text is Ch. Cuttler, Northern Painting, New York, 1968 (soft cover edition).

Exclusion: FAH307Y Session: Winter Evening R.Siebelhoff Not offered 1993/94 Offered 1994/95

FARB27F Baroque Painting in Southern Europe 1600-1650

Telephone ID #: 06222733 A survey of the major pictorial trends in Italy, France and Spain.

The course will first consider the historical factors which engendered the great burst of artistic activity in architecture, sculpture and painting at the beginning of the 17th century (the influence of the Catholic Church; the growth of capitals like Rome and Paris, etc.); it will then focus on the three main pictorial trends of the time: the realism of Caravaggio and Velazquez, the classicism of N. Poussin, and the baroque style of P.P. Rubens. Themes like the development of genre painting (landscape, still life) and the diffusion of a classicist art theory will also be discussed. Textbook: J.S. Held, D. Posner, Seventeenth and Eighteenth Century Art, New York, 1972. Session: Winter Day G. Scavizzi Not offered 1993/94 Offered 1994/95

FARB49Y Twentieth-Century Art Telephone ID #: 06224963

A survey of twentieth-century painters and sculptors, primarily European, with an emphasis on their interactions with modern technology.

The course introduces artists like Picasso and Matisse, whose work is now history, as well as contemporary painters and sculptors. The focus throughout will be on the ways that photography, the movies, television and other technologies have changed the nature of art.

Session: Winter Day L. Carnev Not offered 1993/94 Offered 1994/95

FARB55Y American Painting 1880-1980

Telephone ID #: 062255563

"Modern" American painting and the ideas and conditions affecting it.

The course presents artists who brought modern European ideas into U.S. art, from the American Impressionists to such famous painters as Georgia O'Keeffe and Jackson Pollock. It considers the response of American art to 20th century life, particularly in New York City with its extremes of poverty and wealth, its huge immigrant population, and its love of largescale "progress." It also deals with the reaction against the artists of the New York School after their international success in mid-century. Exclusions: (FARB54), FAH212

Session: Winter Day

L. Carney Not offered 1993/94 Offered 1994/95

FARB62F Recent Canadian Art

Telephone ID #: 06226233 An introduction to the work of major Canadian painters and sculptors from the last four decades.

There will be an unusually strong emphasis on films, taped interviews with artists, and, in particular, seeing work at Toronto galleries. Session: Winter Day L. Carney Not offered 1993/94 Offered 1994/95

FARC05S Wall Painting in Ancient Egypt and the Bronze Age Aegean (3200-1200 B.C.)

Telephone ID #: 06230553 A study of paintings in tempera and fresco in two ancient cradles of human civilization.

In ancient Egypt the tombs of rulers and nobility held most of the culture's pictorial art, created to perpetuate life after death through the recreation of scenes of nature and of daily life. These paintings are detailed, informative, colourful and have an inimitable beauty of pattern. In Greece and the Aegean islands, in contrast, paintings decorate palaces and houses. They often glorify nature and are rendered in a lively and impressionistic style. Fascinating in themselves, the paintings of these two contemporary but different societies

provide material for illuminating comparisons and for detecting possible artistic interaction. Exclusion: (FARB02) Prerequisite: One full-course equivalent at the B level or permission of instructor Session: Winter Day M.C. Shaw Not offered 1993/94 Offered 1994/95

FARC06F Gothic Architecture

Telephone ID #: 06230633

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

Emphasis will be placed on Notre-Dame in Paris, the cathedrals of Chartres, Reims and Amiens, and a select number of monuments in England. A discussion of the sculptural programmes of the said churches will be included.

One two-hour lecture per week. Course texts include: O. von Simson, The Gothic Cathedral, Princeton 1962.

Exclusion: FAH268 Prerequisite: One full-course equivalent at the B-level or permission of instructor

Session: Winter Day T.B.A.Not offered 1993/94 Offered 1994/95

FARC11F Frans Hals, Rembrandt, and Vermeer

Telephone ID #: 06231133 The principal masters of seventeenthcentury Holland.

This study makes extensive reference to the cities of Haarlem, Amsterdam, and Delft as the centres in which these artists worked. Their paintings will be analysed from the point of view of subject matter, technique, and outside influences. The text is Rosenberg, Slive, Ter Kuile, Dutch Art and Architecture 1600-1800 (Pelican History of Art, paperback edition). Exclusion: FAH308

Prerequisite: One full-course equivalent at the B-level in Fine Art History, preferably FARB29Y.

Session: Winter Day R. Siebelhoff Not offered 1993/94 Offered 1994/95

FARC13S Nineteenth Century Realism

Telephone ID #: 06231353

A study of those artists, influenced by photography, whose aim was to represent the world in an objective and impartial way.

Realism had major representatives in England and Germany, but its greatest flowering occurred in France between 1840 and 1880. Works of art from all three countries will be studied. Texts: Gabriel Weisberg, The Realist Tradition, Cleveland, 1980; and Linda Nochlin, Realism, Penguin, 1971. Prerequisite: One full-course equivalent at the B-level in Fine Art History or permission of the instructor Session: Winter Day R. Siebelhoff Not offered 1993/94 Offered 1994/95

FARC18S Seminar in Twentieth-Century

Telephone ID #: 06231853 Special topics in twentieth-century painting and sculpture.

The subject will change from time to time. After introductory sessions outlining the subject and ways of getting information about it, each seminar member will research a topic and present it. Session: Winter Evening L. Carney Not offered 1993/94 Offered 1994/95

FARD02F/S FARD03Y Supervised Reading in Classical

Exclusion: FAH480, 481

FARD04F/S

FARD05Y Supervised Reading in Medieval

Exclusion: FAH482, 483 FARD06F/S

FARD07Y Supervised Reading in Renaissance and Baroque Art Exclusion: FAH484, 485, 486, 487

FARD08F/S

FARD09Y Supervised Reading in Modern

Exclusion: FAH488, 489 A course offering the opportunity for advanced investigation of an area of interest; for students who are nearing completion of art history programmes and who have already acquired research skills sufficient for independent work. Students must locate a willing supervisor, and topics must be identified and approved, by the end of the previous term. A reading knowledge of a second language is recommended. Prerequisite: One C-level full-course equivalent in art history. Session: Winter Day Members of Faculty

For courses in Arts Administration previously listed with a Humanities course designation, see Co-operative Programme in Arts Administration (page 56).

Courses Not Offered in 1992/93

FARB04F	Archaic Greek Sculpture
	(650-480 B.C.)
	Offered 1993/94
	Not offered 1994/95
FARB05S	Classical Greek Sculpture
	(480-300 B.C.)
	Exclusion: FAH304
	Offered 1993/94
	Not offered 1994/95
FARB10F/S	Carolingian and
	Romanesque Art and
	Architecture
	Exclusion: FAH321, 322
	Offered 1993/94
	Not offered 1994/95
FARB19F	Michelangelo
	Exclusion: FAH273
	Offered 1993/94
	Not offered 1994/95
FARB29Y	Baroque Painting in the
	Netherlands
	Exclusion: FAH308
	Offered 1993/94
D. DDAFE/G	Not offered 1994/95
FARB37F/S	Rococo to Romanticism
	Exclusion: FAH282
	Offered 1993/94
T . D D 4017/0	Not offered 1994/95
FARB43F/S	Impressionism
	Exclusion: FAH378
	Offered 1993/94
FARB46F/S	Not offered 1994/95
FARB40F/S	Post Impressionism Exclusion: FAH282
	Offered 1993/94
	Not offered 1994/95
FARB60Y	The Arts in Canada: 1670-
LWDOOL	1960
	Exclusion: FAH286
	Offered 1993/94
	Not offered 1994/95
FARB66Y	Women and Visual Art
FARDUUI	Offered 1993/94
	Not offered 1994/95
FARC14F/S	Art Around 1900
FARCI4F/S	Offered 1993/94
	Not offered 1994/95
FARC17F	Leonardo da Vinci
EMKOLIE	Offered 1993/94
	Not offered 1994/95
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Fine Art Studio

The Specialist Programme is designed for students who are considering art as a profession and/or who may want to continue to the graduate level. It also prepares students for work in the areas of art gallery administration, curating, arts councils, and art college teaching.

Specialist Programme in Fine Art Studio

Supervisor: Don Holman (287-7177) Students must complete fourteen and one half full-course equivalents: ten and one half full-course equivalents in studio; two fullcourse equivalents in art history which must include FARA13; and two additional fullcourse equivalents in cognate disciplines. The list of recommended courses is available from the Programme Supervisor. The courses in studio must include:

- FARA90Y; FARA91F/S
- FARB70F/S; FARB72F/S; FARB75Y; FARB82F/S; FARB86F/S
- Four full-course equivalents from the remaining B-level, and/or C-level chosen in consultation with the supervisor.
- Two D-level full-course equivalents.

The Major Programme in Studio will give the student a full and broad exposure to both the various processes of art-making and to recent developments in art criticism. The programme provides some preparation for teaching at the high school or elementary level.

Major Programme in Fine Art Studio

Supervisor: Don Holman (287-7177) Students must complete seven full-course equivalents as follows:

- FARA90Y; FARA91F/S
- 2 FARA13S
- FARB70F/S*
- FARB72F/S*
- FARB74F/S*
- FARB75Y*
- Two and one-half additional full-course quivalents, one of which must be at the D-level*.
- Students should check these courses for prerequisites.

A recommended approach to our programmes would be:

MAJOR PROGRAMME

First Year:

FARA90Y Foundation Studies in Studio

FARA91F/S But Why is it Art?

FARA13S Second Year:

FARB70F Drawing I

FARB72F Contemporary Issues in

Printmaking

FARB75Y Painting I

Introduction to Lithography FARB82F

FARB74S Drawing II

Third Year:

FARC82F/FARC83F

FARD24S/FARD25S

SPECIALIST PROGRAMME

First Year:

FARA90Y Foundation Studies in Studio

FARA91F/S But Why is it Art?

FARA13S Second Year:

FARB70F

Drawing I

FARB72F Contemporary Issues in

Printmaking

FARB75Y Painting I

Introduction to Lithography FARB82F FARB83S Intermediate Lithography

FARB74S Drawing II

Third Year:

FARC82F/FARC83S

FARB73Y* or FARB92Y* or another FCE

at the B-level or C-level.

FARB86F/S and one other half-course at the B-level or C-level.

Fourth Year:

Two full-course equivalents at the D-level FARD24S/FARD25S

*These courses should be checked for availability due to cycling.

The Fine Art Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not offer courses in commercial or advertising art.

Our courses offer the student a practical "hands-on" experience in art-making. The studio experience is intended to expand the student's perception not only of what art is, but of why and how it is made. Through the actual process of art-making, the student will develop the ability to understand and experience the challenges of contemporary art. Critical skills will expand along with practical skills.

Our A-level studio course is Foundation Studies in Studio and it covers, through practice and discussion, basic media and

concepts. The corequisite is FARA91F/S But Why is it Art?. They must be taken before advancing to our B-level courses which will introduce the student to other media, processes, and a deeper investigation of the ideas behind art. Clevel and D-level courses allow supervised and independent work in any area the student wishes to investigate.

The Major and Specialist Programmes require an Art History course, FARA13. In addition, we strongly urge our students to take other Art History courses dealing with modern and contemporary art.

Students will be expected to purchase the materials necessary for each course. An estimate of the costs is available from the

Programme Supervisor.

FARA90Y Foundation Studies in Studio

Telephone ID #: 06219063

An introduction to the various processes of art-making: drawing, painting, sculpture, printmaking, installation work, performance, and/or video.

This course is intended to prepare the student for further study in Studio. A basic foundation of visual understanding will be built through the personal exploration of a number of processes, concepts, and media.

Students will discover, through assigned work and discussions, the many ways contemporary art is made. They will be required to explore a number of these processes through assignments and will also be expected to give an oral presentation on a contemporary artist.

Limited enrolment: 20 per section Exclusion: FAS110

Corequisite: FARA91

NOTE: Beginning in 1991/92, the prerequisite for FARA90 will be an OAC in Visual Art or permission of instructor following a positive evaluation of a portfolio.

Session: Winter Day

Staff

Offered 1993/94 and 1994/95

FARA91F But Why is it Art? Telephone ID #: 06219133

An introduction to the basic ideas behind recent art, how they developed, and why they change.

"I don't know anything about art but I know what I like." Why do we feel uncomfortable when confronted with contemporary art? What are we supposed to be thinking and why? This course aims to develop a broad basic knowledge of the

critical positions which led to major changes in recent art. Session: Winter Day J. Hoogstraten Offered 1993/94 and 1994/95

FARB70F Drawing I

Telephone ID #: 06227033

An investigation of the various approaches to drawing, including working from the figure and working with ideas.

Through the use of the model and assignments, this course is designed to develop the student's ability to investigate the potentials inherent in drawing. The student must complete a number of finished drawings, working both from the model and from assigned problems. Drawings from the model, assigned drawings, and a completed sketchbook will make up the final portfolio for grading. All assigned work will be discussed in class by the instructor and other class members.

Limited enrolment: 20 Exclusion: FAS238 Prerequisite: FARA90Y Session: Winter Day J. Hoogstraten Offered 1993/94 and 1994/95

FARB72F Contemporary Issues in

Printmaking Telephone ID #: 06227233

An exploration of traditional and more experimental processes of printmaking.

Students will investigate the broad possibilities inherent in printmaking through assigned work which will be discussed in class and individually with the instructor. They will also be required to give an oral presentation on a contemporary artist. Limited enrolment: 15 Prerequisite: FARA90 Session: Winter Day D. Holman Offered 1993/94 and 1994/95

FARB73Y Photographic Issues in the Visual Arts

Telephone ID #: 06227363 An introduction to non-traditional photography and to the issues arising from the use of photography in the 20th century.

This course explores the impact of still photography on the process but also the conceptualization of art-making. The student is introduced, through lectures and demonstrations, to the various ways contemporary artists use photography in their work. Individual and group critiques will be held to discuss assigned work.

Students will work in the darkroom and with multi-media to produce a number of experimental works. Students should have either a 35 mm camera or a home-made pinhole camera.

Limited enrolment: 15

Prerequisite: FARA90 or permission of

instructor

Session: Winter Day

A. Brannen

Not Offered: 1993/94

FARB74S Drawing II

Telephone ID #: 06227453 A continuation of FARB70 with an increased emphasis on the student's ability to expand her/his personal understanding of

the meaning of drawing.

Through the use of the model and assigned projects, the student will be required to explore a number of visual possibilities dealing with both objects and

This course requires the student to work from the figure as well as work from concepts assigned to the class. These completed drawings will be discussed in class and will, with a complete sketchbook, make up the final portfolio for grading. Limited enrolment: 20 Exclusion: FAS238

Prerequisite: FARB70 Session: Winter Day

D. Holman

Offered 1993/94 and 1994/95

FARB75Y Painting I

Telephone ID #: 06227563 An investigation of the possibilities of painting with an emphasis on the rich potential for expression of both personal and cultural imagery.

This course is designed to expose the student to current concepts in painting, primarily the shift from Modernism to Postmodernism and its consequences. These changes will be investigated through an exploration of both media and imagery.

Work in the first term will be based on assignments. Work in the second term will consist of images and concepts developed by the individual student. Discussions of work will be held regularly on both an individual and group level. Students will be required to give an oral presentation on a

contemporary artist and write two papers on

contemporary art. Limited enrolment: 20 Exclusion: FAS230 Prerequisite: FARA90 Session: Winter Day

J. Hoogstraten

Offered 1993/94 and 1994/95

FARB82F Introduction to Lithography

Telephone ID #: 06228233

An introduction to black and white stone lithography including a detailed investigation of materials and techniques.

The course will include demonstrations and lectures covering the technical aspects of the medium. Students will be required to pass a test on procedures and explore the medium by drawing, processing and printing several of their own lithographs. Discussions of work will be held regularly on both an individual and group level. Limited enrolment: 10 Prerequisite: FARA90 or permission of

instructor. Session: Winter Day D. Holman

Offered 1993/94 and 1994/95

FARB83S Intermediate Lithography

Telephone ID #: 06228353 A continuation of FARB82, with emphasis on multi-colour printing.

The course explores the technical aspects of working with coloured inks. Students will be expected to work out visual ideas by drawing, processing, and printing a number of their own lithographs. Individual and group critiques will be held to discuss assigned work.

Limited enrolment: 10

Prerequisite: FARB82 and permission of instructor

Session: Winter Day D. Holman

Offered 1993/94 and 1994/95

FARC76Y Painting II

Telephone ID #: 06237663

An opportunity for the student to work out a number of personal statements in painting.

This course may be taken if the student can show, through the portfolio and proposal, an ability to proceed to the intermediate level. Students will meet with their instructor with a written proposal stating the intended area of investigation and the amount of work necessary to fulfill that investigation. Readings will be assigned on concepts pertinent to the students' work. Students will also meet at appointed times to discuss work-inprogress. Content, method, and evaluation will be planned in co-operation with the instructor.

Limited enrolment: 8 Exclusion: FAS331

Prerequisite: FARB75 and permission of instructor based on the proposal and

portfolio.

Session: Winter Day J. Hoogstraten Not Offered 1993/94

FARC82F/S FARC83F/S FARC86F/S

FARC87F/S FARC88F/S Supervised Studies in Studio

An opportunity for the student to create a number of personal statements working in an area of her/his own choice.

These courses may be taken in any area including printmaking, drawing, painting, sculpture, photography or mixed media if the student, through the portfolio and proposal, can show the ability to proceed to the intermediate level. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-inprogress. Content, method and evaluation will be planned in co-operation with the instructor. Limited enrolment: 3

Exclusion: FAS338

Prerequisite: FARB74, FARB75, FARB83, FARB84 or FARB92 and permission of instructor based on the written proposal and portfolio.

Session: Winter Day J. Hoogstraten, D. Holman Offered 1993/94 and 1994/95

FARD21Y Advanced Studio: Individual Study in Painting

Telephone ID #: 06242163

A further opportunity for individual exploration in painting.

This course is designed for mature students who, through their portfolio and proposal, have shown their ability to work without intensive guidance. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-inprogress. Content, method and evaluation will be planned in co-operation with the instructor.

Limited enrolment: 5 Exclusions: FAS430, 431

Prerequisite: at least one half course in

painting at the C-level Session: Winter Day J. Hoogstraten

Offered 1993/94 and 1994/95

FARD22Y Advanced Studio: Individual Study in Printmaking

Telephone ID #: 06242263
A further opportunity for individual exploration in printmaking.

This course is designed for mature students who, through their portfolio and proposal, have shown their ability to work without intensive guidance. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-in-progress. Content, method and evaluation will be planned in co-operation with the instructor.

Limited enrolment: 3
Exclusion: FAS434, 435
Prerequisite: at least one half course in printmaking at the C-level Session: Winter Day
D. Holman
Offered 1993/94 and 1994/95

FARD24F/S
FARD25F/S (FARC25H)
FARD90F/S
FARD91F/S
Independent Studies in Studio: Advanced
Level

A further opportunity for individual exploration in printmaking, painting, drawing, sculpture, or multi-media.

This course is designed for mature students who, through their portfolio and proposal, have shown their ability to work without intensive guidance. Students will provide their chosen instructor with a written proposal within the first week of classes. This will state the intended area of investigation, the amount of work necessary to fulfill it, and a justification of the students' position. They will also meet at appointed times to discuss work-inprogress. Content, method, and evaluation will be planned in co-operation with the instructor.

Limited enrolment: 3

Exclusions: FAS430, 431, 434, 435, 436, 437, 438, 439

Prerequisite: at least one half course in the area of intended study at the C-level J. Hoogstraten, D. Holman Offered 1993/94 and 1994/95

Courses Not Offered in 1992/93

Fine Art Studio

FARB86F/S Introduction to Intaglio FARB87S Intermediate Intaglio FARB92Y Sculpture Concepts FARB66Y Women and Visual Arts

French

Discipline Representative: L. E. Doucette (287-7138)

Supervisor of Studies: J. Curtis (287-7137) Undergraduate studies of French normally begin with FREA10, Language Practice I, which serves to consolidate previous language experience. This course is also the prerequisite for all advanced language, literature, and linguistic courses in our programme of French studies.

The courses offered are designed primarily for students with OAC French (or Grade 13 French) who wish to continue their study of the language and/or literature of French Canada and France. Those students who have significant "immersion" or "enriched" high school experience should consult the faculty member responsible for FREB10 or FREC10 concerning the appropriate language practice course for their purposes. Students without OAC French or equivalent are urged to obtain credit for FREA16 on a "study elsewhere" basis, for example, by attending a summer immersion programme. Further information is available from our Supervisor of Study Elsewhere, Professor W. J. Bancroft.

Once FREA10 (or its equivalent) is completed, students intending to continue their French studies may choose courses from a variety of areas: these are described below. Please consult the Programme Supervisors and members of the French staff for more detailed advice about course selection and for information about our

Specialist and Major Programmes.

Areas of study in French include:

a) Practical language studies

- i) for general purposes: A10, B10, C01-C05
- ii) for special purposes: translation: B08, C09, C18 pronunciation: B48 business: B18, C18

b) Literature

Courses in literature, both of France and French Canada, cover a range of periods and genres. Some literary study is a requirement in each of the Programmes offered by the Discipline.

c) Linguistics
 Courses in linguistics may be
 descriptive as in B25, B48, and C09, or
 historical as in C42 (France), and C43
 (Canada).

Students interested in more comprehensive studies in linguistics are invited to consult the listings under Linguistics. LINA01, and B05 are of particular relevance to French studies.

d) Civilization

Courses in the civilization and culture of French Canada and of France cover all periods and provide opportunities to intensify understanding of the settings within which the literature and the language of these communities have developed. Relevant courses include B22, B23, B27, and B28. Only one full-course equivalent in the area of civilization may be counted as part of the requirements for each of the Specialist and Major programmes in French.

The College's "Study Elsewhere Programme" offers ideal opportunities for French students to fulfill some of their programme requirements while studying French elsewhere. For example, the University of Toronto sponsors programmes at Laval (Quebec) and Aix-en-Provence (France). If interested, please consult the Supervisor of Study Elsewhere. For further information about the Study Elsewhere Programme and Letters of Permission, refer to page 221.

Normally, a student may not take an Alevel French course at the same time as or after a B-level French course. Other courses and suggestions likely to interest students of French may be found under Language Studies.

The French Discipline offers five different programmes: a Specialist Programme in French Language and Literature; a Major Programme in French Language and Literature; a Major Programme in French Language; a Minor Programme in French; and, in co-operation with the Faculty of Education, a Specialist Programme: Education of Teachers of French. For information on these and other programmes, see pages 130 - 132.

Specialist Programme in French Supervisor: J. Curtis (287-7137)
Students should complete twelve full-course equivalents, including ten French courses as specified below (items 1-4) and two others (see item 5) as follows:

- 1 the sequence FREA10Y, FREB10Y, and one full-course equivalent from the sequence FREC01-C05 (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- 2 one full-course equivalent from the following: FREB25Y, FREC42F/S, FREC43F/S, FREB48Y, FREC09Y
- 3 four full-course equivalents in French Literature and French Canadian Literature, one of which should deal with a period prior to 1800 and one with a period after 1800
- 4 two further full-course equivalents in French (see exclusions listed below)
- 5 two full-course equivalents outside French but from related areas of study, to be agreed upon in consultation with the Supervisor.
- 6 Of the courses chosen in French (items 1-4), four full-course equivalents must be at C- or D-level (or from the 300 and 400 series courses on the St. George campus). Both the sequence FREC01-C05 and supervised reading may count toward this requirement.
- 7 Normally no more than one full-course equivalent in the area of supervised reading may be credited for requirements for the Specialist Programme.

It is recommended that students intending to specialize in French take FREA50 or FREB50 early in their programme of studies.

The following may not count toward a Specialist Programme:

1 any A-level French course, with the exception of FREA10, and FREA50 2 (FREB17), FREB18, FREB90, FREC11, FREC18.

Education Specialist Programme: of Teachers of French

*Please Note: this new programme will be offered beginning in 1993/94.

This is a four year programme appropriate to future teachers of French at the primary/junior, junior/intermediate and intermediate/senior levels. It will include practicum placements consisting of a halfday per week work experience in the elementary or secondary system in Years 3 and 4.

This programme is a cooperative venture undertaken by the Faculty of Education and by the Division of Humanities to provide future teachers of French with a teacher education that addresses both content and methodology, and in particular to address the shortage of teachers of French.

Major Programme in French Language and Literature Supervisor: J. Curtis (287-7137) Students should complete seven full-course

equivalents, including:

1 FREA10Y, FREB10Y, (except where substitution of other French courses is permitted for students with special proficiency in the French language).

2 one of the following courses: FREB08F/S, FREB25Y, FREB42Y, FREB48Y, FREC09Y, FREC01-C05.

- 3 four further full-course equivalents in French, of which three must be in the areas of French and French-Canadian literature.
- 4 Students may include in their Major Programme a maximum of one supervised reading course.

It is recommended that students intending to pursue a Major in French Language and Literature take FREA50 or FREB50 early in their programme of studies.

The following may not count toward a Major Programme in

French Language and Literature:

- 1 any A-level French course, with the exception of FREA10, and FREA50
- 2 FREB18, FREB90, FREC18. Note: Students intending to pursue their studies in French at the graduate level are advised that only the Specialist Programme

qualifies them for admission to the Graduate Department of French at this University.

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of French.Equivalent courses from the discipline's offerings will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor.

See also Specialist Programme in Modern Languages (listed under Language Studies).

Major Programme in French Language

Supervisor: J. Curtis (287-7137) Students should complete seven full-course equivalents, including:

- 1 FREA10Y, FREB10Y, and one fullcourse equivalent from the sequence FREC01-C05 (except where substitution of other French courses is permitted for students with special proficiency in the French language)
- 2 two full-course equivalents from the following: FREB08F/S, FREB18Y, FREB25Y, FREC42F/S, FREC43F/S, FREB48Y, FREC09Y, FREC18F/S.
- two other full-course equivalents in French, one of which must be in the area of French or French-Canadian literature. and one in French or French-Canadian civilization.
- 4 Students may include in their Programme a maximum of one supervised reading course.

The following may not count toward a Major Programme in French Language: any A-level French course, with the exception of FREA10, and FREA50; FREB90.

Note: Students intending to pursue their studies in French at the graduate level are advised that only the Specialist Programme qualifies them for admission to the Graduate Department of French at this University.

Minor Programme in French

Supervisor: TBA Students should complete four full-course equivalents, including:

- 1 FREATOY
- 2 FREB10Y
- 3 Plus two further full-course equivalent French courses at least one of which must be at the C-level excluding FREB82, FREB90.

FREA10Y Language Practice I

Telephone ID #: 06611063 Reinforcement and development of the language skills--understanding, reading, writing, and speaking--necessary for higher-level courses.

The course consists of a grammar review with written and oral exercises. reading and discussion of a variety of texts representing different francophone cultures including Quebec, and whatever exercises class and instructor may choose to devise. The class meets three times a week and, in addition, will do a fourth hour of speaking and listening in the Language Lab. This course is a prerequisite for all B-level courses in the French discipline at Scarborough College except FREB90. For students planning to specialize in

French, FREA50Y is recommended as a companion course. Exclusion: (FREB06), native or near-native proficiency in French; FRE161, 171 Prerequisite: OAC French or Grade 13 French or FREA16 or equivalent. Session: Winter Day, Winter Evening J. Kirkness and Staff

FREA50Y Introduction to Francophone

Offered 1992/93 and 1993/94

Telephone ID #: 06615063 A study of representative works from major periods and areas of the literature of the francophone world.

FREA50Y will introduce students to the thoughtful reading of literary texts in French. Students will be encouraged to acquire the basic vocabulary necessary to analyse literature and to develop their essay-writing skills in French. This course is recommended both for students intending to major or specialize in French as a useful background for more advanced studies and for those students interested in enhancing or retaining their reading, writing, and speaking skills in French.

The class will meet for three hours each week for lectures and discussions conducted in French.

Exclusion: FRE150, 151 Prerequisite: OAC French or Grade 13 French or FREA16 or equivalent Session: Winter Day L. E. Doucette Offered 1992/93 and 1993/94

FREB08F/S Practical Translation

Telephone ID # for FREB08F: 06620833 Telephone ID # for FREB08S: 06620853 Translation practice from French to English and English to French.

Texts from fields such as literature, business, politics, law, science and technology, art, and advertising will be translated, analysed, and discussed in terms of type of language and style of expression. Class time is devoted to increasing the student's proficiency. Evaluation will be based on class participation, written and oral assignments, and an examination. Prerequisite: FREA10 or equivalent Session: Winter Day S. Mittler and F. Mugnier-Manfredi Offered 1992/93 and 1993/94

FREB10Y Language Practice II Telephone ID #: 06621063

A continuation of FREA10.

This course is concerned with the development of fluency, accuracy of expression, and style, through the study of grammar, composition, oral practice, readings, and language laboratory work. Enrolment in each section is limited to 25. Exclusion: (FREB16), native proficiency in French; FRE261, 271 Prerequisite: FREA10 (FREB06) or equivalent Session: Winter Day F. Mugnier-Manfredi and Staff Offered 1992/93 and 1993/94

FREB18Y Commercial French

Telephone ID #: 06621863 The French language in a commercial or economic context.

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

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

Exclusion: FRE301 Prerequisite: FREA10 (FREB06), or permission of the instructor Session: Winter Day W.J. Bancroft and F. Mugnier-Manfredi Offered 1992/93 and 1993/94

FREB22F The Society and Culture of French Canada I

Telephone ID #: 06622233

A study of the historical, social and cultural development of French Canadian society, from its origins to 1959.

Lectures will focus on factors which provide the necessary background for an understanding of contemporary French Canadian society. As such this course is a preparation for FREB23S and students are urged to plan taking both of these courses in succession.

Exclusion: FREB90F/S

Prerequisite: FREA10Y (B06) or equivalent

competence. Session: Winter Day L. Mignault Not offered 1993/94

FREB23S The Society and Culture of French Canada II

Telephone ID #: 06622353

Contemporary French Canadian society with special emphasis on Quebec since the death of Maurice Duplessis.

Using the insight gained from an earlier study of French Canadian society (FREB22F/S), this course focuses on the identity crisis of the 1960s, the resulting nationalist movements, the "Révolution tranquille," and the creative outburst of the '60s and '70s. Special attention will be given to issues related to linguistic and cultural survival, language policies and their impact on federal/provincial relations. FREB22F/S is strongly recommended as preparation for this course.

Prerequisite: FREA10 (B06) or equivalent. Session: Winter Day

L. Mignault Not offered 1993/94

FREB48Y Theoretical and Practical Phonetics

Telephone ID #: 06624863

A study of modern French pronunciation.

This course will comprise the following: general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation, and recordings by students themselves. Basic textbook required: P. Léon, Prononciation du français standard.

Limited enrolment per section: 20

Exclusion: FRE277, 376

Prerequisite: FREA10 (FREB06) or

equivalent.

Session: Winter Evening C. Bertrand-Jennings Offered 1992/93 and 1993/94

FREB51F The Classical Age: Comedy

Telephone ID #: 06625133

A study of the development of French comic theatre through the 17th and 18th centuries. Recommended companion course: FREB52F/S.

The course takes in the work of several masters of the genre from Molière to Beaumarchais. It includes such topics as: varieties of comic form, from farce to high comedy; the Italian influence; the emergence of the comedy of manners; the courtship comedy of Marivaux. Course material will be presented through informal lectures and group discussion. Exclusions: FREB29, FREB41, FRE220,

FRE356

Prerequisite: FREA10 (FREB06) or

equivalent

Corequisite: FREA50 (A30/A02) or FREB50 or permission of instructor.

Session: Winter Day J. Curtis

Not offered 1993/94 Offered 1994/95

FREB52S The Classical Age: Tragedy and Drama

Telephone ID #: 06625253 A study of the tragic and serious theatrical genres in France during the 17th and 18th centuries. Recommended companion course: FREB51.

The course is largely concerned with the achievements of Corneille and Racine, France's most famous "exponents of tragedy". It also looks at the work of successors such as Voltaire, whose adaptations of the tragic form pave the way for modern middle-class drama and the theatre of ideas. Course material will be presented through informal lectures and group discussions.

Exclusions: FREB29, FREB41; FRE220,

FRE336

Prerequisite: FREA10 (FREB06) or

equivalent.

Corequisite: FREA50 (A30/A02) or FREB50 or permission of instructor.

Session: Winter Day

J. Curtis

Not offered 1993/94 Offered 1994/95

FREB60F The 20th-Century French Novel I: 1900 - 1940

Telephone ID #: 06626033

A study of representative French novelists from 1900 to the 1940s. Recommended companion course: FREB61F/S.

Following a general historical and esthetic introduction to the course, works by representative novelists will be studied in their own right and in relation to the society which produced them. Classes, which comprise both lectures and seminardiscussions, will be conducted in French. Exclusions: FREB49, FREB70, FRE426 Prerequisites: FREA10 (B06) or equivalent Corequisites: FREA50 (A30/A02) or FREB50 or permission of instructor. Session: Winter Day S. Mittler Not offered 1993/94 Offered 1994/95

FREB61S The 20th-Century French Novel II: 1940 to the Present

Telephone ID #: 06626153

A study of representative French novelists from the 1940s to the present.

Recommended companion course: FREB60. Following a general introduction to the course, works by representative novelists of the period will be studied in their own right as well as in relation to French society. Classes will comprise both lectures and seminar-discussions and will be conducted in French.

Exclusions: FREB49, FREB70, FRE426 Prerequisite: FREA10 (B06) or equivalent Corequisite: FREA50 (A30/A02) or FREB50 or permission of instructor Session: Winter Day

W.J. Bancroft Not offered 1993/94 Offered 1994/95

FREB81F Women's Consciousness in French Literature

Telephone ID #: 06628133 This course will attempt to trace the history of women's role in French literature and to

analyze the concept of femininity as experienced and described by prominent female authors from the nineteenth century

to the present.

Authors studied might include Duras, Sand, Colette, de Beauvoir, and Wittig. Lectures and discussions will alternate. Both will be conducted in French. Active participation in class is urged. Exclusion: FRE257

Prerequisite: FREA10 (FREB06) Corequisite: FREA50 or FREB50 (A30/A02) or permission of instructor.

Session: Winter Day C. Bertrand-Jennings Not offered 1993/94 May be offered 1994/95

FREB82S Women and Literature in France

Telephone ID #: 06628253 A feminist perspective on fiction and drama in France in the last two hundred years.

Representative works by prominent male and female authors will be studied in their social and ideological contexts. The course will discuss assumptions about women and explore how recent feminist theories have influenced the way we look at literature. The course is offered in English and requires no prior knowledge of French Exclusion: FREB80, FREB81, FRE256, FRE257, FRE258 Session: Winter Day C. Bertrand-Jennings Not offered 1993/94 May be offered 1994/95 May not be counted toward a Major or Specialist degree in French. May be counted toward a Major Programme in Women's Studies.

FREC01F Advanced Written French for General Purposes

Telephone ID #: 06630133

The purpose of this course is to improve students' ability to write effectively and elegantly in French.

Using texts written by native French speakers as models and productions of students for the development of problemsolving strategies, students familiarize themselves with the range of sentence structures and improve their choice of vocabulary (particularly verbs) in order to express their thoughts with more precision, complexity, and in a more stylish manner. General purpose letter and essay writing are the main focus of this course. Exclusions: FREC10Y (C01Y), FRE380,

FRE361

Prerequisite: FREB10 or equivalent Session: Winter Day

L. Mignault

Offered 1993/94 and 1994/95

FREC02S Advanced Written French for Professional Purposes

Telephone ID #: 06630253

A course designed for students who are preparing to use written French for specific job-related purposes: e.g., journalism, essays, and reports in fields related to social and political sciences.

Using models produced by native speakers, students seek to develop

familiarity with the use of the basic styles and vocabulary appropriate for each type of writing. Attention will be given to students' individual interest. Exclusions: FREC10Y (C01Y), FRE380,

FRE361

Prerequisite: FREB10Y or equivalent

Session: Winter Day

L. Mignault

Offered 1993/94 and 1994/95

FREC04S Oral Communication for General

Telephone ID #: 06630453 A course designed for students who have already developed an ability to communicate orally in French and wish to improve their degree of competence and sophistication particularly for the purpose of public address.

The focus is on comprehension of authentic documents and on clarity of expression, correct delivery, ability to speak from sketchy notes and to improvise. Public inquiry, media reporting and mock trial situations are techniques used to practice the development of these skills. Exclusions: FREC10Y (C01Y), FRE381,

Prerequisite: Permission of instructor (FREB17H)

Session: Winter Day L. Mignault

Offered 1993/94 and 1994/95

FREC05F Oral Communication for Specific Purposes

Telephone ID #: 06630533 A course for students who are preparing to use oral French for specific job-related purposes: e.g., journalism and subjects related to various fields of the social and political sciences.

The focus is on comprehension of authentic documents and on clarity of expression, correct delivery, ability to speak from sketchy notes and to improvise. Public address, media reporting and mock trial situations are techniques used to practice the development of these skills. Exclusions: FREC10Y (C01Y), FRE361, FRE381

Prerequisite: Permission of instructor (FREB17H).

Session: Winter Day L. Mignault Offered 1993/94 and 1994/95

FREC09Y Comparative Stylistics

Telephone ID #: 06630963 A comparative study of expression in English and French, including practice in

translating and analysis of selected examples of the translator's art. Students will become familiar with basic terminology and concepts of comparative stylistics through assigned readings and exercises. This approach has the benefit of encouraging close analysis of subtleties of expression in French while alerting the advanced student to the pitfalls which must be avoided by those who work constantly with two related languages.

Exclusion: FRE375 Prerequisite: FREB10 and FREB08

Session: Winter Day

J. Curtis Offered 1992/93 Not offered 1993/94

FREC30S French Theatre in the 20th Century

Telephone ID #: 06633053 A study of the major trends in French drama from the turn of the century to the present, including an examination of the philosophical concept of the «absurd» and its influence on modern French theatre.

Six major plays by representative dramatists will be analyzed to illustrate the development of contemporary French theatre. Classes will be conducted as seminar-discussions in French. supplemented by some lectures. Exclusion: FREB30, FREB31, FRE358 Prerequisite: One B-level course in the group FREB10 - FREB81, except (FREB17), FREB18 Session: Winter Day J. Kirkness Not offered 1993/94 Offered 1994/95

FREC38S The Literature of French Canada III. Special Topics

Telephone ID #: 06633853 Literature and politics in contemporary Quebec.

The political dimension of literary forms in Quebec, from the advent of the Quiet Revolution to the late 1980s. Seminar-discussion, with various options for individual evaluation of students. Texts will include novels by J. Renaud, J. Godbout, R. Carrier, plays by M. Tremblay, F. Loranger and M. Laberge; poetry by G. Miron, M. Lalonde, J. Brault, G. Godin. Prerequisite: One B-level course in group B10-B81, except (B17), B18, or permission of instructor. Pre- or Corequisite: FREA50 (A30/A02) or

FREB50 or permission of instructor.

Session: Winter Day L.E. Doucette Not offered 1993/94 May be offered 1994/95

FREC42F General History of the French Language

Telephone ID #: 06634233

A study of the nature and patterns of change in the French language, from its origin to Modern French.

This course will follow the chronological development of French from its beginnings in Latin, and the influence of historical events such as invasions and wars on the language. Attention will be given to historical sources of social and regional variations in Modern French. Format is three hours weekly: a two-hour lecture, and a one-hour tutorial to discuss texts from various periods.

Exclusions: FREB42, FRE273 Prerequisite: One B-level course in the group FREB10-FREB81, except (FREB17), FREB18; or permission of instructor

Session: Winter Day J. Kirkness Not offered 1993/94 Offered 1994/95

FRED02F FRED03S FRED04F FRED05S

FRED07S

FRED90Y Supervised Reading

These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline.

Discipline Representative or Supervisor of Studies for guidance. Exclusion: (FREC02, FREC03, FREC04, FREC05, FREC07, FREC90); FRE491 Prerequisite: One B-level course in the group FREB10 (FREB16)-FREB81, except

Interested students should contact the

(FREB17), FREB18.

Session: Winter Day

Offered 1992/93 and 1993/94

Courses Not Offered in 1992-93

FREB25Y Introduction to French

> Linguistics & Exclusion: FRE272 Prerequisite: FREA10 (FREB06) or equivalent.

Offered 1993/94 FREB27F/S 20th Century France

Prerequisite: FREA10 (FREB06) or equivalent.

Offered 1993/94

FREB28F/S The Francophone World Prerequisite: FREA10 (FREB06) or equivalent.

Offered 1993/94

FREB36F/S The Literature of French Canada I: to 1960

Prerequisite: FREA10 (FREB06) or equivalent. Corequisite: FREA50 or FREB50 (A30/A02) or permission of instructor.

Offered 1994/95

FREB37F/S The Literature of French

Canada II: since 1960 Prerequisite: FREA10 (FREB06) or equivalent Corequisite: FREA50 or FREB50 (A30/A02) or permission of instructor.

Offered 1994/95 FREB50F/S Approaches to the Literary

Text

Prerequisite: FREA10 (FREB06) or equivalent Offered 1993/94

FREB56F/S 19th-Century French

Literature I: Romanticism Prerequisite: FREA10 (FREB06) or equivalent. Corequisite: FREA50 or

FREB50 (A30/A02) or permission of instructor. Offered 1993/94

FREB57F/S 19th-Century French Literature II: Post

Romanticism Prerequisite: FREA10 (FREB06) or equivalent. Corequisite: FREA50 or FREB50 (A30/A02) or

permission of instructor. Offered 1993/94

FREC11F/S Teaching French as a Second Language Corequisite: one full course in the sequence FREC01F/S - FREC05F/S (C10Y) Offered 1993/94 FREC18F/S Translation for Business and Professional Needs Exclusion: FRE470 Prerequisite: FREB10 or FREB18 or equivalent May be offered 1993/94 FREC22F/S Introduction to Medieval French Language and Literature Prerequisite: One B-level course in the group FREB10(FREB16)-FREB81, excluding FREB17, FREB18, or permission of instructor. Corequisite: FREA50 or FREB50 (A30/A02) or permission of instructor. May be offered 1994/95 FREC43F/S The French Language in Canada Prerequisite: One B level course in the group FREB10 (FREB16) -FREB81, excluding FREB17, FREB18, or permission of instructor Offered 1993/94 FREC51F/S The Age of Versailles Prerequisite: One B level course in the group FREB10 (FREB16) -FREB81, excluding FREB17, FREB18. Corequisite: FREA50 or FREB50 (A30/A02), or permission of instructor. May be offered 1993/94 FREC52F/S The Age of Voltaire Prerequisite: One B level course in the group FREB10 (FREB16) -FREB81, excluding FREB17, FREB18. Corequisite: FREA50 or FREB50 (A30/A02), or permission of instructor. May be offered 1993/94 FREC53F/S The French Novel in the

17th and 18th Centuries

course in the group

FREB10 (FREB16) -

FREB81, excluding

FREB17, FREB18.

Prerequisite: One B level

Corequisite: FREA50 or FREB50 (A30/A02) or permission of instructor. May be offered 1993/94 FREC56F/S The 19th-Century French Novel Prerequisite: One B level course in the group FREB10 (FREB16) -FREB81, excluding FREB17, FREB18. Corequisite: FREA50 or FREB50 (A30/A02), or permission of instructor. May be offered 1993/94 FREC62F/S Special Topics in 20th-Century Prose Fiction Prerequisite: One B level

FREB81, excluding FREB17, FREB18. Corequisite: FREA50 or FREB50 (A30/A02), or permission of instructor. May be offered 1993/94

course in the group

FREB10 (FREB16) -

Geography

Discipline Representative: M.F. Bunce (287-7313)

The Geography curriculum offers courses dealing with the processes, problems and management of physical and human environments. There are Major and Specialist Programmes, and courses in Geography are listed as options in Canadian Studies, Women's Studies, the Co-op Programmes in Administration and in International Development Studies, Terrain and Earth Science and Economics. Specific courses, such as those on Soil Management, should be of general interest to students specializing in Physical and Life Sciences, while those on Urban Geography and Rural Geography may appeal to students specializing in other disciplines in Social Sciences.

Geography Programmes can be taken for either a B.A. or a B.Sc. degree depending on the courses selected. In general ,courses in human geography qualify for a B.A. and those in physical geography lead to a B.Sc.; courses which count towards a B.Sc. degree are GGRB03, GGRB09, (GGRB15)*, GGRB19, (GGRB24), (GGRB29)*, GGRB31, GGRB35,(GGRC05)*, GGRC23,

GGRC24, (GGRC25), GGRC26, (GGRC27)*, (GGRC28)*, GGRC30, (GGRC32)*, (GGRC35)*, (GGRC36)*, (GGRC37)*, GGRC38, GGRC40, GGRC42, GGRD03, GGRD04, GGRD05, GGRD06. In addition (GGRC01)* and GGRD01 may be used to fulfill the B.Sc. requirements by students researching in appropriate scientific areas of geography, subject to the approval of the Programme Supervisor. *Courses shown in parentheses are courses which are no longer offered but which may still be counted for the purposes of this rule.

Specialist Programme in Geography

Supervisor: A. Price (287-7327)
The requirements for this Programme are twelve full-course equivalents, which must include:

- 1 GGRA04F/S and GGRA05F/S
- 2 GGRB31F/S, or STAB22F/S or Equivalent*
- 3 GGRD01Y
- 4 At least three full-course equivalents in Geography at the C-level or D-level, other than GGRD01Y.
- 5 Two full-course equivalents in disciplines other than Geography to be agreed on in consultation with the Supervisor.

*NOTE GGRB31F/S will not be offered in 1992-93. There are several equivalent courses which will be accepted as satisfying this programme requirement, including STAB22F/S and the courses listed in the Calendar as Exclusions to that.

Major Programme in Geography Supervisor: A. Price (287-7327)
The requirements for this Programme are seven full- course equivalents in Geography, which must include:

1 GGRA04F/S and GGRA05F/S

2 At least two full-course equivalents in Geography at the C-level or D-level

GGRA04F Concepts and Methods of Human Geography

Telephone ID #: 06910433
The conceptual and methodological foundations of human geography. The concepts examined will include place, location, distance and proximity; spatial scales, linkages and disparities; and the relationships between people and environments. The methods studied will include land use survey and analysis, graphic representation and interpretation of numerical data, population analysis, and the

use of descriptive statistics. Teaching method: 2 hour lectures, 1 hour lab. Exclusion: GGR101, GGR110 Session: Summer Evening, Winter Day R. Morino

GGRA05S Introduction to Physical Geography

Telephone ID #: 06910553

The course is designed to illustrate the principles underlying the geographical way of analyzing and understanding how natural systems operate. A consideration of the flow of both energy and mass through natural systems is used to explain system characteristics, from the shape of the landscape to the generation of weather. The physical processes forming natural systems are considered at many different scales, from point to global processes; from soil erosion at the field level to plate tectonics. The impact of human activity on system processes is also surveyed, with particular reference to vegetation change, soil degradation and atmospheric pollution, using specific case studies. The course requires no geography background, only an interest in natural systems. Teaching method: 2 hour lecture, 1 hour lab.

Exclusion: GGR100

Session: Summer Evening, Winter Day A. Price

GGRB01Y Resource Management

Telephone ID #: 06920163
The basis for understanding resource development policies and environmental management strategies. Problems of resource use and environmental management are examined generally in their global context, and specifically with reference to Canadian circumstances and policies. Issues discussed will include population growth and quality, world food problems, global energy, water resource management in Canada, and conservation strategies.

Prerequisite: GGRA04 or GGRA05 Exclusion: GGR233 Session: Winter Day R. Morino

IDSB02Y International Development Studies: Physical and Ecological Resource Management

Telephone ID #: 08120263 Introduces students to the physical and ecological bases of natural resource management, and their role in constraining development in Third World countries. The course includes study of: basic climatic processes, climatic differentiation; the hydrologic cycle and its role in water resource management; principles of soil development and nutrient cycling; processes of plant colonization and community development. It will include case studies of natural resource management and mismanagement in developing countries. Students will be encouraged to develop specific regional interests in course tutorials.

Session: Winter Day

Session: Winter Day A. Price/TBA

GGRB03Y Climatology

Telephone ID #: 06920363 A scientific analysis of Earth's climate through study of the governing physical and dynamical controls.

The first term focuses on basic elements of Earth's meteorology. Major topics include: atmospheric composition, nature and significance of atmospheric radiation, physical controls on surface and global energy budgets, atmospheric moisture and cloud development, and atmospheric motion, including air mass and front concepts and upper air circulation. The second term examines Earth's major climates. Topics include comparisons and contrasts of: mid-latitude temperate climates, and Asian/African monsoons. The remainder of the term is devoted to an examination of the nature and theories of climatic change. Two hours of lectures per week plus an additional lab/tutorial hour as needed.

Exclusion: GGR203, GGR312 Prerequisite: GGRA05 or an A-level science course with permission of instructor

Session: Winter Day

TBA

GGRB05Y Urban Geography Telephone ID #: 06920563

An introduction to the geography of the North American city, emphasizing the importance of historical development to our understanding of the present. The first half of the course looks at cities as reflections of, and influences upon, North American society. The second half deals with the internal organization of the city, with the operation of the land market, patterns of residential, commercial and industrial land use, with planning and urban politics. Examples will be drawn in part from

Canadian cities.
Exclusion: GGR124
Prerequisite: GGRA04 or an A-level course in the Social Sciences or the Humanities.

Session: Winter Day K. England

GGRB09F Hydrology, Land Use and Water Opelity

Telephone ID #: 06920933 Particular land uses involve very specific hydrologic, geomorphic and chemical interrelationships at and near the ground surface. Any change in land use necessarily changes the water balance at the surface, which modifies the other surface processes, usually to the detriment of soil and water quality both on and off the site. In this course, the fundamental controls on the motion of water through vegetation canopies and soil are outlined, and specific examples of changes in water quality caused by changing land use are analyzed. Emphasis will be placed on the hydrologic consequences of land use change, but attention will also be given to the chemical changes in water and soil which result from changes in near-surface water fluxes. Teaching methods: 2 hour lecture, 1 hour lab per week.

Prerequisite: IDSB02 or GGRA05

Session: Winter Day

A. Price

GGRB13Y Modern Urban Landscapes

Telephone ID #: 06921363
An examination of the appearance of modern cities, especially in terms of architecture and urban planning and with reference to two questions: How have cities come to look as they do? What can be learned about modern societies by studying their visual environments? The fall term will be devoted chiefly to an historical survey of architectural styles and town planning approaches from 1880 to the present; the spring term emphasizes the analysis, evaluation and interpretation of urban landscapes.

Session: Winter Day

GGRB17Y Rural Geography Telephone ID #: 06921763

E.C. Relph

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

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

Prerequisite: GGRA04 or an A-level course in the Social Sciences or the Humanities Session: Winter Day, Summer Evening M. Bunce

GGRB19Y General Geomorphology

Telephone ID #: 06921963
Processes of surficial material development and landform evolution; weathering processes and soil development; hillslope form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes: Pleistocene and

role of climatic changes; Pleistocene and present day glaciation; geomorphology as an applied geotechnical field. Field excursions, laboratories, lectures. Exclusion: GGR201

Prerequisite: GGRA05 or GLGA01, or IDSB02 with permission of instructor

Session: Winter Day TBA, B. Greenwood

GGRB27F Location and Spatial Development

Telephone ID #: 06922733
Application of competitive location theory to explain economic landscapes. Topics include Ricardian rents and spatial equilibrium, trade flows and spatial price equilibrium, geographic market areas and spatial pricing policies, location of a firm with mobile resources, and trade theory and regional specialization. Three hours of lectures per week.

Exclusion: GGR220 (JEGB27) Prerequisite: ECOA01 Session: Winter Day

J. Miron

GGRB35F Introduction to Soil Science

Telephone ID #: 06923533
Introduction to the processes of pedogenesis and the development of diverse soil profiles, their field relationships and their response to changing environmental conditions. The course will examine the evolution of the fundamental soil properties of importance in soil management, and will provide an introduction to techniques of soil examination in the field, soil analysis in the laboratory and the basic principles of soil classification. Two hours of lectures

and one hour of labs each week. Limited

enrolment: 30 Exclusion: GGRC27

Prerequisite: Any A-level course in environmental sciences, or IDSB02Y

Session: Winter Day

TBA

GGRC04S Urban Residential Geography Telephone ID#: 06930453

Micro and macro perspectives on urban residential geography are presented in this course with an emphasis on North American Cities. At the micro level, topics include the search and location behaviour of individuals and families as consumers of housing, and suppliers of labour and domestic production. At the macro level, topics include commuting, social ties, neighbourhood environments, structure and segregation, changes in the social and physical structure of neighbourhoods. In light of these the course will examine the changing role of land use planning and public policy. Three hours of lectures per week.

Prerequisite: GGRB05 and GGRB31 or

equivalent.

Session: Winter Day

J. Miron

GGRC06S Women and the City Telephone ID #: 06930653

This course will look at the way gender roles are reflected in, and reproduced by, the geography of the city. Topics will include the separation of home and "work", the nature of the social environment, the use of public space, city-suburban differences, child-care and paid employment. The problems of creating an environment that provides equal opportunities for women and men will be examined. Prerequisite: GGRB05 or WSTA01

(JHSA01)

Session: Winter Day

K. England

GGRC13F Urban Political Geography

Telephone ID #: 06931333

A geographical approach to the politics of contemporary cities. Emphasis will be placed on North American, and especially Canadian cities, since 1945. Lectures will review recent trends in political activity, the causes of these trends and their social consequences. Topics to be discussed will include the nature and organization of the state, especially at the local level; the political powers of the property industry, of planners, of business, labour, and community based organizations; reform

movements. Throughout, emphasis will be placed on the ways in which the geography of the cities and local government have shaped, and been shaped by, urban political activity.

Exclusion: GGR239, GGR339

Prerequisite: GGRB05 Session: Winter Day.

K. England

GGRC18S Urban Transportation Policy Analysis

Telephone ID #: 06931853

This course examines current problems in urban transportation planning using policy analysis. Topics include setting of community goals, economic and social cost-benefit analysis, evaluation of redistributive impacts, impacts of transport projects on land values, mass transit subsidies, and regulation/deregulation. The course examines insights gained from contemporary empirical research. Three hours of lectures per week

Exclusion: GGR324 Prerequisite: GGRB31 or equivalent and

GGRB05 or GGRB27 Session: Winter Day J. Miron

GGRC20F Issues in Rural Development

Telephone ID #: 06932033 An examination of the special problems of

rural areas in an urbanizing world and associated development strategies. Particular attention will be paid to the underlying causes of rural poverty and disadvantage, to the role of rural economies in national development, and to the basic theories of rural development. Prerequisite: One of GGRB01, GGRB17,

IDSB01, IDSB02 Session: Winter Evening M. Bunce

GGRC24F Quantitative Research In Geography

Telephone ID #:06932433 A course in data analysis that introduces students to the use of quantitative methods in modern geographic research. The course covers Monte Carlo simulation, smoothing, clustering, multiple regression, spectral analysis, trend surfaces, discriminant functions, and logit models. An intuitive and non-rigorous approach highlights problems and potential statistical approaches, using advanced computer programmes for data analysis. Prior exposure to elementary statistics or data analysis is assumed. Three hours of lectures per week.

Prerequisite: GGRB31 or equivalent

Session: Winter Day

J. Miron

GGRC26Y Coastal Geomorphology

Telephone ID #: 06932663

The mechanics of coastal processes leading to morphological change in the coastal zone will provide the focus for studying the evolution of Canada's present shorelines, especially those of the lower Great Lakes. Field and laboratory studies will complement lectures on the theoretical aspects of sediment erosion, transport and deposition in the coastal zone. The course should be of interest to students in limnology, geology and marine studies. Prerequisite: GGRB19; courses in science and quantitative methods (e.g. GGRB31) will be useful. Corequisite: GGRB19 Session: Winter Day

GGRC29S Problems in Modern Agricultural Land Use

Telephone ID #: 06932953

B. Greenwood

Examination of the land use problems created by rapid changes in modern agriculture. Emphasis will be placed on the impact of high technology, corporate economics and urbanization upon agricultural land use and landscapes. The course is thematic in approach and will include such topics as changes in land tenure, chemical applications in farming, agribusiness, fragmentation, land abandonment and conversion, urbanization of farmland. One two-hour seminar each week plus individual consultation. Prerequisite: One of GGRB17, GGRB01, IDSB01, IDSB02 Session: Winter Evening M. Bunce

GGRC38F Hydrology: Estimation and Forecasting

Telephone ID#: 06933833 The fundamental controls on the flow of energy and water through natural systems are analyzed, and the way in which such processes are conventionally modelled is described. These conventional models are applied to the management of water resources, in particular the estimation of water flows at the drainage basin scale. The course objectives include a better understanding of how water moves through natural systems, the ways in which human activity changes hydrologic process, and

the kind of modelling which is used in

planning exercises. Two hours of lectures and one hour of labs each week.

Exclusion: GGRC28

Prerequisite: One of GGRB03, GGRB09,

GGRB19, IDSB02 Session: Winter Day A. Price

GGRC39S Soil Management in Temperate

Telephone ID#: 06933953

The utilization of soil resources in Canada and western Europe, with particular emphasis on environmental impact and soil degradation. The course will focus on the fundamental processes of soil degradation and examine soil conservation techniques and strategies with particular attention to critical issues in Canada such as nutrient cycling and the management of soil fertility, soil erosion and conservation, soil contamination and acidification, problems of drainage and secondary salinization, and the management of Arctic and Alpine soils. The course will involve regular laboratory projects in the Soil Erosion Research Laboratory. Two hours of lectures and two hours of labs each week. Limited enrolment: 20

Exclusion: GGRC27 Prerequisite: GGRB35 Session: Winter Day

GGRC41F Current Topics in Human Geography

Telephone ID#: 06934133

Examination and discussion of current trends and issues in human geography, with particular emphasis on recent developments in concepts and methods. Specific content will vary from year to year. Seminar format with active student participation. Two hours each week. Limited enrolment: 20 Prerequisite: GGRA04 and one B-level fullcourse equivalent in Human Geography and permission of instructor.

Session: Winter Day R. Morino

GGRC42F Current Topics in Physical

Geography Telephone ID#: 06934233

Examination and discussion of current trends and issues in physical geography, with particular emphasis on recent developments in concepts and methods. Specific content will vary from year to year. Seminar and/or lab format with active student participation. Two hours each week. Limited enrolment: 20

Prerequisite: GGRA05 and one B-level fullcourse equivalent in Physical Geography and permission of instructor Session: Winter Day Staff

GGRD01Y Supervised Research **

Telephone ID #: 06940163 A research project under the supervision of a member of faculty. Topics may be suggested by students or faculty, but in either case must be identified and approved by the intended supervisor in time to allow for possible field work in the summer prior to formal registration in the course. Frequent discussions with the supervisor are expected. Research may be based on library or archival investigations, field studies, laboratory experiments, the analysis of

census or other published data, or some combination of these. Evaluation will be based on 1) an extended proposal or progress report submitted on or before October 31, value 20 per cent of final grade; 2) a complete draft of the final report submitted on or before February 28, value 20 per cent of final grade; 3) a written report or dissertation of professional quality in its presentation, submitted on or before March 31, value 60 per cent of final grade. The final report will be evaluated by at least two members of faculty and the student may be asked to defend it at an oral examination.

Prerequisite: Any fifteen full-course equivalents including at least five equivalents in Geography and GGRB31 or equivalent.

Session: Winter Day

Exclusion: (GGRC01)

Staff

GGRD02S Environmental Philosophies

Telephone ID#: 06940253

A critical review of different attitudes and approaches to environments, with special attention to their assumptions and implications. Issues discussed will include the meaning of preservation, conservation, management and sustainable development; the forms of technological control of the environment; environmental ethics; deep ecology; environmental concerns versus social concerns; global environmental management.

Exclusion: GGRC12

Prerequisite: Any 10 full-course equivalents including at least one of GGRB01,

GGRB17, IDSB01, IDSB02

Session: Winter Day

R. Morino

GGRD07S Hydrology: Physical Processes and Modelling

Telephone ID#: 06940753

The motion of water in natural systems is explored in detail, with special reference to the way in which streamflow is generated. The processes of infiltration, soil water motion and recharge are described in terms of the controls on those processes. The way in which modelling uses such physical principles, and the difficulties of applying physically based models to natural systems are explored.

Exclusion: GGRC28 Prerequisite: GGRC35 Session: Winter Day

A. Price

Courses Not Offered in 1992-93

GGRB31F/S Data Analysis in Geography: An

Introduction

Exclusion: GGR270 Prerequisite: GGRA04 or

GGRÁ05

GGRC07F/S Countryside Conservation Prerequisite: GGRB01 or

GGRB17

GGRC23F/S Computer Modelling in

Physical Geography Exclusion: GGR276 Prerequisite: GGRB31 or equivalent and any two GGRB03, GGRB19,

GGRB09

GGRC30F/S Boundary Layer Climates

Prerequisite: GGRB03 GGRC31F/S Development and Planning

of Metropolitan Regions Prerequisites: GGRB31 or equivalent and one of GGRB05 or GGRB27

(JEGB27)

GGRC34F/S Landscape Interpretation Prerequisite: GGRB13

GGRC40F/S Tropical Soil Management

and International Development

Exclusion: GGRC27 Prerequisite: GGRB35 and

IDSB02

GGRD04F/S Sedimentary Models Exclusion: (GGRC25)

GGRD05F/S Hillslope Geomorphology Prerequisite: GGRB19 and

one of GGRC26 or

GGRC28 GGRD06F/S Climatic Change

Prerequisite: GGRB03 or B-level science course and permission of instructor

Geology

Discipline Representative: K. Howard (287-7233)

GEOLOGY - "the scientific study of planet earth, its origin, structure and history, and the nature of the processes which have given rise to its present state"

Geology provides the key to understanding and resolving many of the environmental issues that plague our planet. Problems such as diminishing and polluted water supplies, acid rain, lake and coastal erosion, disposal of household, industrial and radio-active wastes can often be attributed to an insufficient understanding of near-surface geology and geological processes.

This growing concern with our environment has led to the development of a specialist programme in geology on the Scarborough Campus called Terrain and Environmental Earth Sciences (TEES). The TEES programme provides students with a good background in all the fundamental aspects of geology through the study of earth materials at or near the surface, and the processes--chemical, sedimentary, hydrogeological--that shape and determine the environment as we see it today. While the emphasis is on geology, the programme is multidisciplinary in nature and is strongly supported by the physical and biological sciences.

Please refer to the Physical Sciences section of the Calendar for the following programme.

Specialist Programme in Terrain and Environmental Earth Sciences (TEES)

GLGA01Y Planet Earth: an Introduction to Geology

Telephone ID #: 07010163 Fundamental concepts of physical and historical geology are discussed. The first part of the course deals with the composition, structure and origin of the Earth and the physical processes that operate on and in it. The second part details the chronological succession of physical and biological events on the Earth as

revealed in the rock record. Exclusion: GLG110, 140, 141 Prerequisite: None, but one OAC Mathematics and OAC Chemistry or Biology or Physics are recommended. Session: Winter Day TBA

GLGA03S Geological Hazards Telephone ID #: 07010353

This course will focus on the geological background and possible solutions to major hazards affecting the environment, including such topics as landslides, erosion, earthquakes, volcanic eruptions and asteroid impacts, flooding, glaciation and future climate change, subsidence, and the disposal of toxic wastes. It will be of interest to a wide range of students in the life, social, and physical sciences, and offers an opportunity for the non-specialist to understand headline making geological events of topical interest. No prior knowledge of the Earth Sciences is required. Exclusion: GLG103 Session: Winter Evening N. Eyles

GLGB02S Principles of Stratigraphy and Sedimentology

Telephone ID #: 07020253 Sediments and sedimentary rocks provide a record of environmental change over the last 3500 million years. This course provides a fundamental understanding of the wide range of sedimentary environments found on planet earth and their stratigraphic record. Techniques of describing and dating sedimentary strata will be demonstrated during local field excursions. This course will interest students in life and physical sciences.

Exclusion: GLG301 Prerequisite: GLGA01Y Session: Winter Day N. Eyles

GLGB03S Field Camp I Telephone ID #: 07020353

The camp will be held in May, after the final Spring examinations. Possible locations include Costa Rica and Appalachia. Prerequisite: GLGB05F and GLGB02S Session: Winter Day

Staff

GLGB05F Introductory Mineralogy

Telephone ID #: 07020533 Crystallography, physical properties, origin and occurrence of minerals; and the descriptive mineralogy of approximately eighty common and useful minerals.

Exclusions: GLG219, 221

Prerequisite: GLGA01Y, CHMA02Y Session: Winter Day

D. Gorman

GLGB06S Optical Mineralogy

Telephone ID #: 07020653 Optical mineralogy and identification of the principal rock-forming minerals in thin section by the use of the polarizing microscope; introduction to petrography.

Exclusions: GLG219, 221 Prerequisite: GLGB05F Session: Winter Day

J. Gittins

GLGC06F Glacial and Periglacial Geology

Telephone ID #: 07030633 Large ice sheets have covered all but 3% of the Canadian landmass many times in the last 2 million years. A thorough understanding of glacial processes and stratigraphies is essential for environmental geology, hydrogeology, mineral exploration and geo-engineering. Field and project work emphasise the glacial record of Southern Ontario particularly as it bears on the urban environmental geology of Metro Toronto. Exclusion: (GLGC06S), GEO326 Prerequisite: GLGB02S or GGRB19Y Session: Winter Day N. Eyles

GLGC08S Subsurface Exploration Techniques: Drilling

Telephone ID #: 07030853 This course is designed to expose students to drilling techniques necessary for geotechnical, hydrogeological and mineral exploration investigations. The course is organized as field demonstrations combined with classroom instruction and laboratory practicals in waterwell, blasthole, geotechnical, exploration and rotary drilling. Applications, limitations, costs, advantages and disadvantages will be stressed. Particular emphasis will be placed on new developments in drilling equipment, overburden drilling and in situ testing in Quaternary sediments, design and installation of hydrogeological monitoring and production wells. Prerequisite: GLGC06F, GLGC10F or with permission of instructor.

Session: Winter Day

R. Pybus

GLGC10F Exploration Techniques in Hydrogeology

Telephone ID #: 07031033 Following an introduction to the principles of hydrogeology and the mechanics of groundwater flow, emphasis is directed towards practical methods of groundwater exploration and assessment. These methods include drilling, surface and borehole geophysics, pumping test analysis and resource evaluation. Prerequisite: GLGA01Y, MATA26Y Session: Winter Evening K.W.F. Howard

GLGD01S Contaminant Hydrogeology

Telephone ID #: 07040153 The first part of the course deals with natural hydrochemical processes and investigates the use of major ions, minor ions, trace metals and environmental isotopes in studying the occurrence and nature of groundwater flow. The second part concerns point and non-point sources of groundwater contamination and the mechanisms of contaminant transport. Prerequisite: GLGC10F and CHMA02Y, or

MATB41F and CHMB22Y or CHMB11Y Session: Winter Evening

K.W.F. Howard

GLGD02H/D03Y Research Project

This course is designed to give students experience in the design, implementation, and reporting of a substantial research project involving laboratory and/or fieldwork. Existing faculty research allows a broad range of possible topics. The project may be designed as a half or full course and should be undertaken after the end of the 3rd Year, subject to faculty availability. Faculty permission and supervision is required and the course is only open to those students who have either completed or are undertaking specialist courses in the area of intended study. Students having a B+ or higher standing may be eligible for summer financial support for research projects. Exclusions: GLG470, 471 Session: Winter Day Staff

GLGD05F Field Camp II: The Western Prairies and the Rocky Mountains

Telephone ID #: 07040533 The third year field camp is designed to familiarize the student with several geological settings and modern environments. The camp is set in Alberta and will traverse the western prairies, the foothills and the Rocky Mountains,

offering field mapping and project work in a wide range of sedimentary terrains. Particular emphasis is placed on structural, hydro and petroleum geology, and sedimentary environments in time, including a visit to the Tyrrell Museum of Palaeontology at Drumheller. This course will be held during the first week of the fall term.

Prerequisite: GLGB02S, GLGB03S, GLG332F

Session: Winter Day

N. Eyles and K.W.F. Howard

German

Discipline Representative: H. Ohlendorf 287-7136

The German Programmes are designed to introduce students to the language and culture of the German speaking countries. A variety of modern integrated teaching materials is used to maximize students' exposure to the four language skills (listening, speaking, reading and writing).

Students interested in language studies are encouraged to combine the German Major Programme with another language major for a Specialist degree in Modern

Languages. The German Major Programme is also recognized as an excellent complement to studies in Fine Art, History, Humanities, Linguistics, Literature, Philosophy, and Social Sciences. German also participates in the programme Management and Language offered jointly by the Division of Humanities and the Division of Management and Economics.

The internationally recognized Certificate for German as a Second Language may be obtained by students chiefly interested in language competence, who have completed the following courses: GERA10Y, GERA09H, GERB20Y, GERB19H, GERC09F/S, GERC10Y, or their equivalent. This course of study may be of interest to students in the Social Sciences who are attracted to international relations.

A Workstudy Programme in the Federal Republic of Germany is available to qualified students. The Federal Republic of Germany guarantees a job for the months of June and July and allows for independent travel in August.

The German government, through the Goethe Institute, also makes available

various scholarships for intensive language studies to qualified students.

Major Programme in German Language

Supervisor: H. Ohlendorf

The Programme consists of the following

courses:

Introductory German GERA10Y and

GERA09H Language Practice I GERB20Y Intermediate German

and

GERB19H Language Practice II GERC01F/S The Last Hundred Years

GERC02F/S History of the German Language

GERC03F/S Language in a Literary Context

GERC09F/S

Language Practice III GERC10Y Advanced German

LINA01Y General Linguistics (a more

theory-oriented course)

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of German. Equivalent courses will be substituted in consultation with the Supervisor. Courses in German Literature in the Original will continue to be available under the rubric of supervised reading.

See also the following courses in

translation: HUMB02Y

DRAB07Y

Introduction to Literature Dramatic Literature and

Political Revolution HUMB43F/S Science, Power and Hell: The

Story of Dr. Faustus

GERA10Y Introductory German

Telephone ID #: 06811063

The fundamentals of the German Language. Grammar, syntax, and vocabulary are

introduced to provide a basic knowledge of the language. There are three hours per week of intensive language work. Students are also encouraged to make use of available computer learning programmes. Exclusion: GER100, GER101

Corequisite: GERA09H Session: Winter Day

Staff

Offered every year

GERA09H Language Practice I Telephone ID #: 06810953

A practical complement to GERA10Y.

This course is designed to reinforce and supplement through oral practice the grammar work done in GERA10Y, as well as

to expand the students' skills to communicate in German. The course will meet twice a week throughout the year. Course work can be supplemented by computer based language programmes available in the Resource Room. Exclusion: GER 100, GER 101 Corequisite: GERA10Y Session: Winter Day Staff Offered every year

GERB19H Language Practice II

Telephone ID #: 06821943

A practical complement to GERB20Y

This course is designed to increase the students' vocabulary and fluency in German through supervised discussion, essay writing, and reading. The course will meet twice a week throughout the year. Exclusion: GER202, GER206 Prerequisite: OAC German or Grade 13

German or GERA09 and GERA10 Corequisite: GERB20 Session: Winter Day Staff

Offered every year

GERB20Y Intermediate German

Telephone ID #: 06822063 Intensive language work involving a review of grammatical principles in the context of readings, oral exercises and written composition.

Mimeographed material on current events may be introduced from time to time to spark class discussion.

Exclusion: GER206, GER210 Prerequisite: OAC German or Grade 13 German or GERA09 and GERA10

Corequisite: GERB19 Session: Winter Day H. Ohlendorf Offered every year

GERC01F The Last Hundred Years

Telephone ID #: 06830133 In this course, the student is introduced to the most pertinent aspects of Germany's recent history and culture beginning with the end of WWI and taking into account the effects of Nazism, WWII, and the division of Germany. The course also attempts to understand the forces and pressures which brought about the unification of Germany. In addition to the material provided through lectures and text book readings, there will be readings and discussions of relevant

contemporary literature and films. The course is taught in English. Exclusion: (GERB24F/S) Session: Winter Day U. Lesser-Sherman Not offered 1993/94 Offered 1994/95

GERC03S Language in a Literary Context

Telephone ID #: 06830353

An introduction to the techniques of critical

analysis.

The course will look at short works of literature as examples of the particularly refined use of language. It is intended to familiarize the language student with elementary techniques of literary analysis. All sessions are informal tutorials with freeflowing discussions and a high degree of student involvement. Each student is asked to prepare a number of short presentations. Exclusions: GER206, GER323 Prerequisite: GERB19 and GERB20 Session: Winter Day H. Wittmann Not offered 1993/94 Offered 1994/95

GERC09S Language Practice III

Telephone ID #: 06830953

A course complimentary to GERC10Y. This course will continue the work done in GERB19. The communicative skills of the students will be further enhanced by a variety of exercises in oral and written composition around current topics of interest. Much emphasis will be given to the needs of individual students and their aspirations towards bilinguality. Exclusion: GER310, GER311 Corequisite: GERC10Y Session: Winter Day U. Lesser-Sherman

GERC10Y Advanced German

Offered every year

Telephone ID #: 06831063 A continuation of language work done in GERB20.

Language exercises will be centered on different texts. A review of grammar and syntax on an advanced level will reinforce the students' ability to read, speak, and translate. Material on current events will be used as much as possible. The course intends to further the students' analytic ability to write and converse in German. Exclusion: (GERD01Y); GER310, GER311 Prerequisite: GERB19 and GERB20

Session: Winter Day.

Staff

Offered every year

GERD10, 11, 12F GERD13, 14, 15S

GERD16Y Supervised Reading

Courses are designed to give students an opportunity to study German Literature in the original and to follow up on ideas generated during the more formal courses of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student. Exclusion: (GÉRC30F, GERC33F, GERC43F GERC36S, GERC40S, and GERC46S)

Prerequisite: GERB19 and GERB20

Session: Winter Day

Staff

Courses Not Offered in 1992-93

GERC02S

History of the German

Language

Exclusion: (GERB33S) Prerequisites: OAC German or Grade 13 German or GERA09 and GERA10 Not offered 1992/93 Offered 1993/94

GERC11F/S

German in Commerce and

Management

Prerequisite: GERB19.

GERB20

Offered 1993/94 Not offered 1994/95

Greek

Courses are offered in introductory Classical Greek, (GRKA01 and GRKB02 (GRKA10)), Greek literature of the classical period (GRKB11, GRKC30, etc.), and modern Greek (GRKB10, GRKC22, etc.)

Introduction to Greek GRKB02F

Authors Intermediate Modern Greek

GRKB10Y Plato: Apology

GRKB11S

Modern Greek Music GRKB23F Modern Greek Cinema and

Theatre

Classical Themes in Modern GRKC24S

Greek Literature

GRKC30-34F

GRKC23F

GRKC35-39S Supervised Reading

GRKC40Y

For further information see under Classical Studies.

Greek and Roman History

GRHB01Y Greek History from the Bronze Age to the Death of Alexander

GRHB04Y The Roman World

GRHC25Y Political and Social Life in Classical Athens

For further information see under Classical Studies.

History

Discipline Representative: E.W. Dowler (287-7145)

The study of history is intended to enhance our understanding of human 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. History can also be usefully combined with language study.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HISA01Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in European history. A series of survey courses (HISB02-09) provides a comprehensive foundation of knowledge in their particular areas, and also serves as preparation for more detailed and advanced studies. In upper-level courses students investigate more specific areas, periods, or problems. D-series courses are conducted as seminars. In them students make close and thorough studies of particular questions and present their findings in discussions and major essays. There are sequences of courses at all levels in the following areas: Medieval European, Modern European, British, American, Canadian, Russian, and Ancient Greek and Roman.

Specialist Programme in History Supervisor: W.M. Dick (287-7144)

Number of Courses Students must complete ten full-course equivalents in History (HIS or GRH). These ten must include HISA01Y and five upper-level full-course equivalents (C/D-level courses on the Scarborough Campus, 300/400-level courses on the St. George Campus). At least one of the five must be a D/400-level course. In addition, students must complete two full-course equivalents in disciplines other than History. Students are encouraged to follow a sequence of language courses in fulfillment of this requirement.

Pre-1815 Courses Of the ten at least two full-course equivalents must deal with the period prior to 1815 (all GRH courses and as indicated in the HIS course descriptions).

Areas of Study Students are also required to take courses in at least three different areas as indicated in the course descriptions. Among the five upper-level full-course equivalents at least two courses must be within one area (one and one-half fullcourse equivalents may meet this requirement).

Major Programme in History Supervisor: W.M. Dick (287-7144)

1 Number of Courses Students must complete seven fullcourse equivalents in History (HIS or GRH). These seven must include HISA01Y and three upper-level courses(C/D-level courses on the Scarborough Campus, 300/400-level courses on the St. George Campus).

Pre-1815 Course Of the seven at least one full-course equivalent must deal with the period prior to 1815 (All GRH courses and as indicated in the HIS course descriptions).

Areas of Study Students are also required to take courses in at least two different areas as indicated in the course descriptions.

Note: Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual programmes.

Courses in History

HISA01Y The European World: An Introduction to History

Telephone ID #: 07510163 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. Exclusion: HIS105, HIS109 0.5 Pre-1815 credit European Area Session: Winter Day/Winter Evening J. Pearl, M. Eksteins Offered 1993/94 and 1994/95

HISA02S The Twentieth-Century World Telephone ID #: 07510253

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

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

Session: Winter Day

W. M. Dick and Staff
Not offered 1993/94

Offered 1994/95

HISB02Y Britain from the Eighteenth Century to the Present

Telephone ID #: 07520263

An examination of the political, social, economic, and religious forces which transformed an aristocratic society into an industrial power, and of the reasons for the decline of British power in the twentieth century.

The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy, of an aristocratic into a liberal democratic society, and of a society based on the ideology of the Enlightenment into one committed to that of evangelical humanitarianism. It will also consider why, in the twentieth century, the British abandoned their imperial role and

concentrated on the establishment of a welfare state. Two lectures per week. Exclusion: HIS239 British Area Session: Winter Day F. Iacovetta Offered 1993/94 and 1994/95

HISB03Y History of the United States Telephone ID #: 07520363 Major themes from the Revolution to the

present.

The course will focus on such questions as independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism, and the United States as a world power. Two lectures per week. Exclusion: HIS271
American Area
Session: Winter Day
A. N. Sheps, W. M. Dick
Offered 1993/94 and 1994/95

HISB04Y Introduction to Canadian History Telephone ID #: 07520463

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 per week.

Exclusion: HIS260, 261, 262, 263
Canadian Area
Session: Winter Day
F. Iacovetta, I. R. Robertson
Offered 1993/94 and 1994/95

HISB06Y Europe in the Middle Ages

Telephone ID #: 07520663
A chronological survey of economic, political, religious, and social developments in Western Europe (including Britain) from the late Roman period to the fifteenth century.

The object of this course is to familiarize students with the foundations of Western society as they evolved in conjunction with the early settlement, colonization, and subsequent expansion of Europe. Particular attention is paid: (i) to the peculiar circumstances which determined national boundaries and which led to the

divisions and conflicts of the modern world, and (ii) to the origin and development of our own religious, legal, educational and political institutions. Readings are from P. Brown, The World of Late Antiquity: G. Duby, Rural Economy and Country Life in the Medieval West; D. Hay, The Medieval Centuries; R.W. Southern, Western Society and the Church in the Middle Ages; and others. Two hours of lectures per week. Exclusion: HIS220 Pre-1815 credit Medieval Area Session: Winter Day M. Gervers Offered 1993/94 and 1994/95

HISB07Y Russia from the Thirteenth Century to the Present

Telephone ID #: 07520763

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 discussion. Exclusion: HIS250 0.5 Pre-1815 credit

Russian Area Session: Winter Day E. W. Dowler Not offered 1993/94 Offered 1994/95

HISB08F The Sixteenth Century Religious Reformations

Telephone ID #: 07520833 How and why does a culture rework its worldview? What happens when it does?

In the early sixteenth century most west Europeans were Catholics; by the end of the century Catholicism had changed greatly and substantial minorities had replaced it with other forms of Christianity (e.g. Lutheranism, Calvinism. Anglicanism, "anabaptism"). The course explores the breakup of the medieval church, the creation of the modern forms of Western Christianity, and the connections between ideas and social change. Exclusion: (HISB13) HISC83Y) Prerequisite: HISA01Y 0.5 Pre-1815 credit European Area Session: Winter Day L.J. Abray Not offered 1993/94 Offered 1994/95

HISC10Y The Sexes Since 1350

Telephone ID #: 07531063
An explanation of changing definitions of femininity and masculinity from the Renaissance to the recent past.

Topics will include: changes in expectations for men and women in their domestic, parental, and public roles (with the latter including education, employment, politics, and war); relations between the sexes; feminism and anti-feminism. The focus will be on the British Isles, Western Europe, and Canada, and on the nineteenth and twentieth centuries. Lecture and discussion: three hours. Exclusion: (HISB10) HIS308 Prerequisite: One of HISA01, HISB02. HISB03, HISB04, or WSTA01 (JHSA01) Session: Winter Day L.J. Abray Offered 1993/94 and 1994/95

HISC11Y France from Reformation to Revolution 1500-1789

Telephone ID #: 07531163
The development of French politics and society from the wars of religion to the reign of Louis XVI.

This period is characterized by rapid, often traumatic change in which France forcefully asserted itself as the principal power on the European continent. Special consideration will be given to the relations between political developments and social, religious and intellectual phenomena. One two-hour lecture and one tutorial session per week.

Exclusion: (HISB11) HIS349 Prerequisite: HISA01Y Pre-1815 credit European Area Session: Winter Day J.L. Pearl Not offered 1993/94 Offered 1994/95

HISC18Y Europe in the Enlightenment, 1700-1789

Telephone ID #: 07531863
An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century.

Emphasis will be placed on the incongruity of theory and practice in the writings and policies of the enlightened despots. In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual milieu which spawned them. In the second term the attempts of the so-called enlightened despots to apply

Enlightenment ideas to the life of their states will be examined. Lectures and discussion.

Exclusion: (HISB18) HIS244
Prerequisite: HISA01
Pre-1815 credit
European Area
Session: Winter Day
E. W. Dowler
Not offered 1993/94
Offered 1994/95

HISC23Y Tudor and Stuart England Telephone ID #: 07532363 England from the and of the Worn of the

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. Exclusion: (HISB23) HIS238 Prerequisite: Any B-level full-course equivalent Pre-1815 credit British Area Session: Winter Evening L.J. Abray Offered 1993/94 and 1994/95

HISC33S Society and Politics in the United States, 1790-1850

Telephone ID #: 07533353

An examination of the major social and political movements and forces in the early

republic.

Topics will include Jeffersonianism, Hamiltonianism, Jacksonianism, Whiggism, social reform, anti-slavery, and women's movements, and the development of economic, territorial, and cultural nationalism. Critics as well as champions of the early republic will be discussed. Prerequisite: HISB03 American Area Session: Winter Evening

Session: Winter Evening A.N. Sheps
Not offered 1993/94
Offered 1994/95

HISC35Y Twentieth-Century America Telephone ID #: 07533563

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

A traditionally rural culture of individual opportunity and national isolationism faces the problems created by urbanization, ethnicity, industrialization,

and world power. The tensions created by the appearance of large-scale organization, by the expansion of governmental power, by demands for social justice, and by the changing role of the U.S. in world affairs are the themes of this course. One two-hour session and one tutorial per week. Exclusion: (HISB35) HIS372 Prerequisite: HISB03 American Area Session: Winter Day W. M. Dick Offered 1993/94 Not offered 1994/95

HISC46Y Atlantic Canada

Telephone ID #: 07534663

An examination of the Maritime provinces and Newfoundland from the first European contacts to Confederation in each province.

Subjects to be investigated include: native peoples and the impact of European contact; French regime and the development of a distinctive Acadian people; the dispersal of the Acadians; British settlement; responses to the American Revolution; the Loyalist impact; colonial economies and social structures; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; religious and ethnic tensions; fishermen's movements in Newfoundland; the coming of Confederation. One two-hour lecture per week, and the class will be divided into two tutorial groups, each meeting once every two weeks. Written work will include two research papers.

Exclusion: (HISB46) HIS468 Prerequisite: HISB04 0.5 Pre-1815 credit Canadian Area Session: Winter Day I.R. Robertson Offered 1993/94 and 1994/95

HISC49S Canada Between the World Wars Telephone ID #: 07534953

An intensive examination of the leading themes in Canadian, political, economic, social, and cultural history in the 1920s and 1930s.

Two consecutive hours of lectures and one hour of tutorial per week. Topics will include the impact of World War I, the rise of Mackenzie King, the development of Canadian autonomy, social and economic trends in the 1920s, the Great Depression of the 1930s, the situation of labour, the political upheavals of the era, and the

problem of external relations as war approached again.
Prerequisite: HISB04
Canadian Area
Session: Winter Day
I. R. Robertson
Not offered 1993/94 and 1994/95

HISC79F Social History of Revolutionary Russia, 1900 to the Present Telephone ID #: 07537933

Social change in Russia and the USSR from the revolution of 1905 to the revolution of the 1980s.

This course will look at the revolutionary mix of social forces in the first two decades of the twentieth century, the social experiments of the 1920s, the Stalinist resolution of the 1930s and 1940s and the disintegration of the Stalinist consensus since Stalin's death in 1953. Prerequisite: HISB07Y Russian Area Session: Winter Day E.W. Dowler Not offered 1993/94 and 1994/95

HISC86S Revolutionary France, 1780-1800

Telephone ID #: 07538653 The age of revolution and its continuing importance.

The course will study the elements of tradition and continuity in this period as well as the more obvious areas of radical break with the past. A two hour lecture period and a one hour tutorial per week. Prerequisite: HISAO1Y 0.5 Pre-1815 credit European Area Session: Winter Day J.L. Pearl Not offered 1993/94 Offered 1994/95

HISC87Y Germany in the Nineteenth and Twentieth Centuries

Telephone ID #: 07538763 A thematic treatment of German history from the end of the Holy Roman Empire to the present.

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

Two consecutive hours of lectures and one hour of tutorial per week. A set of readings from primary and secondary sources will be assigned, but extensive further reading is essential.

Exclusion: (HISB17) HIS317

Prerequisite: HISA01

European Area

Session: Winter Day
M. Eksteins
Offered 1993/94 and 1994/95

HISD01F HISD02S

HISD03Y Independent Studies A directed reading course for students in their final year of undergraduate study who have demonstrated a high level of academic maturity and competence. Qualified students will have an opportunity to investigate an historical field which is of common interest to both student and supervisor and which is not available for study otherwise. Candidates must find a willing supervisor and must submit a written application before the dates given below. Students meet regularly with the supervisor to discuss progress in their investigations and complete a 7,500-10,000 word paper for a term course and a 15,000-20,000 word paper for a year

Exclusions: (HISC01/02/03) HIS497, HIS498, HIS499

Prerequisite: At least one B-level full-course equivalent in History; permission of instructor to be obtained in the previous term, by 15 April for HISD01(HISC01) and HISD03(HISC03) and by 1 December for HISD02(HISC02). See History Supervisor for detailed application procedures. Session: Winter Day The History Faculty

HISD11F Crime and Punishment in Early Modern Europe 1500-1800

Telephone ID #: 07541133

A seminar investigating concepts of law, court systems, and penalties in Early Modern Europe.

The course will examine how legal systems reflected their societies. Lay courts and ecclesiastical courts (inquisitions) will be studied. The use of torture, corporal, and capital punishment will be examined in the context of societies and their values. Limited enrolment: 20. Prerequisite: HISA01 and one B or C level

ourse in history.
0.5 Pre-1815 credit
British/European Areas
Session: Winter Day
J.L. Pearl
Offered 1993/94 and 1994/95

HISD15Y The Making of Modern Society Telephone ID #: 07541563

A seminar in the international history of "ordinary people" from the late eighteenth century to the early twentieth century.

Not offered 1993/94 and

The course discusses politics, population pressure, and industrialization altered pre-industrial society, how early forms of social protest changed into mass organizations, how revolutionary ideas affected ordinary people, and how governments and "governing classes" responded to pressures from below.

The course provides the opportunity for students to re-examine, on a comparative basis, knowledge gained in other courses. Three-hour seminar. Limited enrolment: 15.
Exclusions: (HISB15) HISC15
Prerequisites: HISA01 and two other courses in post-1815 history, either European or North American.
American/British/European Areas
Session: Winter Evening
W.M. Dick
Offered 1993/94
Not offered 1994/95

HISD17Y European Society and Culture in the Twentieth Century

Telephone ID #: 07541763 An investigation of the impact of war, technology, economic crisis, and totalitarianism on the social condition and mind of Europeans.

Two-hour seminar. Limited enrolment: 15. Exclusion: (HISC17) HIS318, HIS412 Prerequisite: HISA01 and one B- or C-level

course in History
European Area
Session: Winter Day
M. Eksteins

Offered 1993/94 and 1994/95

HISD32Y Colonial and Revolutionary America and the British Empire, 1607-1787 Telephone ID #: 07543263

An examination of the origins of American society and institutions in the seventeenth century and their development in the eighteenth century, the origins, course and effect of the American Revolution and the Constitution and their relation to Western political thought, and the impact of the Revolution on British North America and Britain.

A two-hour weekly seminar, based on suggested readings and class discussion. Exclusion: HISD34F/S, HIS470 Prerequisite: Any one of HISB02, HISB03, HISB04 or HISC18 (HISB18) Pre-1815 credit American/British Areas Session: Winter Day A. N. Sheps Offered 1993/94 and 1994/95

HISD46S Selected Topics in Canadian Women's History

Telephone ID #: 07544653 A seminar investigating the role, lives, and struggles of women in Canada from the time of initial European contacts with the First Peoples to the post-World War Two era.

The course will highlight the changing position of women in Canadian society, the relations between men and women and among women from different class, ethnic/racial, and political backgrounds, and the impact of state policies on women and gender relations. Topics could include native women in fur trade society, rural women, women and the law, sexuality and crime, middle-class women's roles in religion, reform, and politics, working class and radical women, and immigrant and minority women. Limited enrolment: 15. Prerequisites: Any course in Canadian history or HISC10Y or HISD10F/S Canadian Area Session: Winter Day F. lacovetta Not offered 1993/94 Offered 1994/95

Courses in Classical Studies (see Classical Studies for full course descriptions):

GRHB01Y Greek History from the Bronze Age to the Death of Alexander Pre-1815 credit Ancient Greek and Roman Session: Winter Day A. Boddington

Session: Winter Day A. Boddington Not offered 1993/94 Offered 1994/95

GRHB04Y The Roman World

Pre-1815 credit Ancient Greek and Roman Session: Winter Day J. Corbett Not offered 1993/94 Offered 1994/95

GRHC25Y Political and Social Life in Classical Athens (500-300 B.C.) Prerequisite: GRHB01Y or any related GRH Ancient Greek and Roman Session: Winter Day A. Boddington Not offered 1993/94 or 1994/95

Courses Not Offered in 1992-93

Immigrants and Race

Exclusion: HIS467

Offered 1993/94

the Present

Canadian Area

Russian Area

Modern Europe

European Area

Offered 1993/94

HIS303

1994/95

1994/95

(HISC14)

1994/95

HISD34F/S Revolutionary America,

HISD32

HISB04

1760-1790

Prerequisite: HISB04

Not offered 1994/95

Exclusion: (HISB47)

Prerequisite: HISB04

Offered 1993/94 and

Russia, 1700-1900

Prerequisite: HISB07

Not offered 1993/94 and

Popular Culture in Early

Exclusions: (HISB14),

Prerequisite: HISA01

0.5 Pre-1815 credit

Not offered 1994/95

History of Feminism since

the Eighteenth Century

British/European Areas

Prerequisite: HISC10

Offered 1993/94 and

Exclusion: (HISC34)

Prerequisite: Any one of

HISB02 or HISB03 or

0.5 Pre-1815 credit

American Area

Social History of Imperial

Relations in Canada History

The Canadian Left, 1867 to

HISC45F

HISC47Y

HISC78F

HISC84F

HISD10F

1994/95 HISC16Y Modern France 1750 to the HISD62Y The Crusades Present Exclusion: (HISC62) Exclusion: (HISB16) Prerequisite: HISB06 HIS302 Pre-1815 credit Prerequisite: HISA01 or Medieval Area permission of instructor Offered 1993/94 and Offered 1993/94 1994/95 Not offered 1994/95 HISD78Y The Russian Intelligentsia HISC31F Slavery in the American Exclusion: (HISC78) South HIS431, HIS455 Exclusion: (HISB31) Prerequisite: HISB07 or **HIS408** RUSA01 Prerequisite: HISB03 Russian Area American Area Not offered 1993/94 Offered 1993/94 Offered 1994/95 Not offered 1994/95

The History of Ideas

The Major Programme in The History of Ideas is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

Humanities

Discipline Representative: C.V. Ponomareff (287-7166)

"The study of culture is largely the study of continuities, and it is this sense of continuity rather than of uncritical acceptance we hope to impart to our students. We want them to acquire a habit of mind that looks for these continuities not only within the confines of their special field, but in all the manifestations of culture that surround them."

E.H. Gombrich

"Civilization means something more than energy and will and creative power... How can I define it? Well, very shortly, a sense of permanence." Kenneth Clark

As one of the College's four academic Divisions, Humanities comprises twelve distinct disciplines, such as Classical Studies, English, History, and the Modern Languages. Each of them offers a range of courses in its own area and its own programme(s) of study. These are listed under the pertinent headings in the Calendar.

In addition, the Division offers, under

the rubric HUM, a number of courses which fall outside the purview of the traditional disciplines. These are concerned mainly with culture, civilization, and literature; and all have readings and instruction in English. These courses help establish an intellectual context in which staff and students can explore new approaches to learning and benefit from a more comparative and interdisciplinary approach to knowledge.

Within this context the Division offers a more general programme than is found in many of the traditional disciplines: The College Programme in Humanities. The requirements for this Programme are set out below, followed by a list of the HUM courses offered this year, several of which may form part of this Programme.

A number of individual disciplines also offer courses (in English) in the literature or culture of particular countries. These are relevant to the College Programme in the Humanities but are open equally to all interested students. They are listed after the HUM courses.

College Programme in the Humanities

Supervisor: W.C. Graham (287-7149) This programme offers what is often called a 'Liberal Arts' education. It aims to help students to develop their critical skills and to introduce them to a range of different intellectual approaches, so that they may use these tools in the study of some of the cultural achievements of humankind. Though European culture plays a large role in the programme, students are encouraged to look beyond it to other world cultures. The course structure outlined below is a framework; it is for the student, in consultation with the supervisor, to work out an appropriate content. Nine full-course equivalents are required, as follows:

- 1 HUMA01Y
- HUMA03Y 2 PHLA01Y
- 3 HISA01Y
- 4 One full-course equivalent in the Arts: DRA, FAR, MUS
- 5 One full-course equivalent in language, literature or linguistics: CLA, DRA, ENG, FRE, GER, GRK, HUM, ITA, LAT, LIN, RUS, SPA
- 6 One full-course equivalent from: ANTB05, ANTB21, ANTB55, ANTC06, ENGB20, ENGB21, IDSB01, HISC45, HUMC14, MUSA12, MUSB14, POLB91, SOCB20, WSTC10

- 7 Two and one-half full-course equivalents in Humanities subjects, at least two of which must be at C- or D- level focusing on one area or theme. (For the purposes of this Programme Mathematics is also considered to be a Humanities subject.) Choice of courses must be approved by the Supervisor.
- 8 HUMC10H

NOTES:

- a) A course taken to satisfy one area requirement may not be used to satisfy another area requirement.
- b) BIOB01, COGB01, a course in MAT or AST may be used to replace one of the requirements 2, 3, 4, or 5 above.

Specialist Programme in the Humanities

The Specialist Programme in the Humanities is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

HUMA03Y Prologue II: East Asia and the Middle East

Telephone ID #: 07810363 An introduction to the culture of China, Japan, India, Persia and the Islamic tradition through the reading of a selection of the most important writings.

Texts will be chosen from the following: Lao Tzu Tao-te Ching, Journey to the West (Monkey); Confucius Teachings: Poetry of the Tang Dynasty, Tale of Genji, The Treasury of Loyal Retainers; Basho, The Narrow Road to the North; Upanishads, Valmiki, Ramayana, Buddhist Scriptures, Bhagavad-Gita, Pancatantra, Poems from the Sanskrit (esp. Kalidasa); the Ode of Labid, Selections from the Our'an: the suras 'Mary' and 'Joseph'; Arabian Nights: Sea Stories; Ibn Tufayl, Hayy Ibn Yaqzan, Selections from Me'arri and Umar Khayyam, Shaname (The Book of Kings), autobiographies of Avicenna and Al-Ghazali.

Session: Winter Day Co-ordinator: W.C. Graham Not offered 1993/94 Offered 1994/95

HUMA02Y Composition: An Introduction to Expository Writing

Telephone ID #: 07810263 A university-level course for students who wish to improve their writing.

This is not a remedial course, nor a course in creative writing. It presumes a mastery of basic writing skills. It teaches the organization of arguments, effective

sentence structure, and control of tone and diction, through the study of good prose and regular writing assignments. Lectures, discussions of prose specimens, and "workshop" sessions may be supplemented by one-on-one tutorial sessions and by computer-assisted instruction.

A diagnostic test at the beginning of classes will govern admission. Because much of the instruction is of an individual nature, section enrolment is strictly limited and not all students can be accommodated. Exclusion: CLA105 Session: Winter Day, Winter Evening, Summer Evening

Offered 1992/93 and 1993/94

HUMB02Y Introduction to Literature

Telephone ID #: 07820263 An introduction to the understanding and enjoyment of literature through the reading of novels, short stories, plays, and poems drawn from literatures of various countries.

The course will be taught jointly by faculty from German and Spanish, and will feature guest lectures from such disciplines as Classics, English, French, Fine Arts, Music, History, Philosophy and Russian. All readings will be in translation. Exclusion: (LITA01) Session: Winter Day H. Wittmann and P. Léon Offered 1992/93 and 1993/94

HUMB06S Russian Short Fiction of the 19th and 20th Centuries

Telephone ID #: 07820653 A study of significant themes in Russian

literature in the 19th and 20th centuries.

The course will deal with themes such

The course will deal with themes such as the "superfluous man", the Romantic hero and the anti-hero, love, death, and the dehumanization of character.

Texts will be selected in the light of one of the themes above. The two anthologies used at present are Carl R. Proffer, ed., From Karamzin to Bunin. An Anthology of Russian Short Stories and D. Richards, ed., The Penguin Book of Russian Short Stories.

Exclusion: (LITB17, HUMB11), SLA318H, SLA319H

Prerequisite: HUMB02Y (LITA01) or ENGA11Y (ENGA01) or FREA30 (FREB02) or one course in literature.

Session: Winter Day
C. V. Ponomareff
Offered 1993/94 and 1994/95

HUMB19F Beyond Consciousness

Telephone ID #: 07821933
An examination of the limits of consciousness from the point of view of various disciplines in the Humanities. The specific content will vary but will focus on one of the following: communication, religion and philosophy, myth-making and poetry.

In 1992-93, suggestion and the unconscious will be studied insofar as they relate to the educational process and emphasis will be placed on yoga, music therapy, East-European and Western work in memory training, and communication theory.

Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking the course might wish to consult the following: Brown, New Mind, New Body; Eliade, Yoga: Immortality and Freedom; and Schroeder, Psychic Discoveries Behind the Iron Curtain and Supertearning, Problems of Suggestology.

Prerequisite: At least one full-course equivalent in either Psychology or Philosophy or English or another literature. Session: Winter Day W.J. Bancroft Offered 1993/94

HUMB42Y The Modernist Adventure

Telephone ID #: 07824263 A comparative exploration of the crisis of modern artistic consciousness in selected works of French, German, Hispanic, and Russian literature, focusing on the period 1870-1914.

The course will examine, in terms of their historical context, literary evolution, and relevance to the twentieth century, themes and attitudes associated with such topics as: pessimism, escape, and spiritual quest; revolution and the creative will; hypersensitivity and introversion; drugs and dreams; the cult of artifice; legend, myth, and fantasy; the role of music and pictorial art.

Representative texts (mainly prose) will be read and discussed in English. Guest lectures on selected subjects.
Exclusions: (RUSB24),(SPAB33),(LITB22) Prerequisite: One course in literature. Session: Winter Day
C.V. Ponomareff, R. Skyrme
Not offered 1993/94

HUMB44F Disaster and the Literary Imagination

Telephone ID #: 07824433
An exploration of the impact of totalitarianism, war and the Holocaust on the post-Second World War European literary imagination.

The course will look at Russian and German writers (in translation).
Exclusion: (LITB40)
Prerequisite: One course in literature
Session: Winter Day
C.V. Ponomareff
Not offered 1993/94

HUMB58Y The Nineteenth Century Russian Novel, 1830-1880

Telephone ID #: 07825863 The image of the Nihilist in nineteenthcentury Russian fiction at the height of its literary achievement.

The course will focus on the conflict between Humanism and Nihilism in Russian culture set into the wider context of European letters and explore the human, social, and artistic vision behind the major literary works by Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, Leo Tolstoy, and Anton Chekhov. Exclusion: (RUSB11), (LITB07Y), SLA240Y

Prerequisite: One course in literature. Session: Winter Day C.V. Ponomareff Not offered 1993/94

HUMC10S Humanities Seminar

Telephone ID #: 07831053
A special full-course equivalent seminar course, taken normally after the completion of ten full-course equivalents. Each member of the seminar undertakes an individual project and gives a report on it.

Topics for the seminars should be chosen in consultation with the Coordinator. They should build upon work taken in other courses, and should attempt to relate material from two or more disciplines.

Exclusion: HUMB15 (HUMB10)

Perception of the seminars should be course.

Prerequisite: Any ten full-course equivalents.
Session: Winter Day

Session: Winter Day Co-ordinator: W.C. Graham Offered 1993/94 and 1994/95

HUMC11H Arts Seminar

Telephone ID #: 07831143
A seminar/performance course combining at least two of: Fine Art Studio, Fine Art History, Drama and Music.

Students will bring a proposal for a

project to the supervisor early in the fall term and develop their proposals through the term. They will present their seminar/performance in the spring term. The form of presentation will depend upon the development of the proposal and the disciplines involved. Prerequisite: at least 10 full-course equivalents in the Arts Programme. Session: Winter Day Co-ordinator: J. Hoogstraten Offered 1993/94 and 1994/95

HUMD91F HUMD92S

HUMD93Y Supervised Readings

Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses.

The student should submit to the Supervisor of the Humanities Programme a statement of objectives and proposed content for the course; this should be done by 15 April for F and Y courses and by 1 December for S courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.

Exclusion: (HUMC91-C93)

Exclusion: (HUMC91-C93)
Prerequisite: Three B-level full-course equivalents in the Division of Humanities.
Session: Winter Day

Offered 1993/94 and 1994/95

HUMD95-D99Y Individual Study Year

An opportunity for advanced students to spend a year following their own studies under the supervision 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 appropriate faculty. Those interested in enrolling should contact the Supervisor of Studies.

Exclusion: (HUMC95-C99)
Prerequisite: Permission of the Supervisor of Studies.

of Studies. Session: Winter Day

Staff

Offered 1993/94 and 1994/95

CIAA02Y Greek and Roman Mythology

Telephone ID #: 03010263 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.

Exclusion: (HUMA11)
Session: Winter Day, Winter Evening
TBA

Not offered 1993/94

FTAC71S Italian Cinema

Telephone ID #: 08637153 A survey of the development of Italian cinema from World War II to the present.

Films by Rossellini, Antonioni, Fellini, Pasolini, and other post-war Italian directors will be shown during the course, which will meet four hours per week. Besides participating in the discussions, students will be required to write a brief review on each film, and one end-of-term essay for which a cinematic project (a short film plus a scenario) may be substituted. This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian. Specialists in Italian will be expected to do their written work in Italian. Exclusion: (JHIB71);ITA240 (JHIC71) Prerequisite: For those taking the course as part of a Programme in Italian, ITAB01 or ITAB11; for others, none. Session: Winter Day J. Campana Offered every year

SPAB14F The Civilization of Spain I

Telephone ID #: 28721433
The events and personalities which shaped
Spain from the eighth to the eighteenth

centuries.

The main topics will include: hero and anti-hero in the medieval world--the Cid and Lazarillo; Reconquest and religious intolerance--the Spanish Inquisition; the New World and its impact on the Old--Christopher Columbus; the rise and fall of the Spanish Empire--Charles V to Philip II; daily life in the Spanish Golden Age; the art of Velázquez. Weekly two-hour lectures and discussion are complemented by tapes,

slides and films. The course is taught in English.
Exclusion: (HUMB15) (HUMB09) (HUMC09)
Session: Winter Day
P. Léon
Not offered 1993/94
Offered 1994/95

SPAB15S The Civilization of Spain II Telephone ID #: 28721553

The events and personalities that have shaped Spain from the Romantic Age to the present.

The main topics will include: Goya and his world; the Spanish Civil War--its causes, context, heroes, and aftermath; Lorca, Buñel, and Dalí--a new vision of reality; Franco--forty years of dictatorship; the transition to democracy as seen in the popular culture of the seventies; present day Spain. Weekly two-hour lectures are complemented by tapes, slides, and films. The course is taught in English. Exclusion: (HUMB15) (HUMB10) (HUMC13) Session: Winter Day K. Gödde Not offered 1993/94 Offered 1994/95

BIOB01Y Introduction to Biological Sciences

Telephone ID #: 01320163

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

The course is designed for students with no formal background in Biology but who have acquired some skill in reflection and in writing. Topics will include the functioning of cells and organisms and the relationships of organisms in space and time. The contemporary understanding of biological structures and functions will be illustrated by reference to common experience; genetic and ecological topics will be related to current ethical and political controversies which require biological input for their solution. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods. Exclusion: BIOA03 (JBHB01Y) Prerequisite: Either, two full-course equivalents in the Division of Humanities; or, two full-course equivalents in the Division of Social Sciences with

permission of instructor. Session: Winter Day G.R. Williams Offered 1992/93 Not offered 1993/94 **HUMA01Y** Prologue

Exclusion: CLA100, ENG104

Environment and Human HUMB01Y

Life; The Mediterranean World

Offered 1993/94

Celtic Mythology and HUMB03Y Mediaeval Celtic

> Civilization Offered 1993/94

Celtic Christianity 400-HUMB04F 1500 A.D.

Not offered 1993/94 HUMB05S The Irish

Not offered 1993/94

HUMB07F Russian Culture Exclusion: (RUSA01) Offered 1993/94

HUMB27S Science Fiction Offered 1993/94

Fantasy in Narnia and HUMB39F Middle Earth

Offered 1993/94 Science, Power, and Hell: **HUMB43F**

The Story of Dr. Faustus Exclusion: (LITB50S) Prerequisites: (LITA01) or ENGA11Y (ENGA01) or FREA30 (FREB20Y) or one

full course in literature. Not offered 1993/94

The Spanish Civil War: Fact HUMB45S to Fiction

Exclusion: (LITB32) Prerequisite: (LITA01) or ENGA11Y (ENGA01) or FREA30(FREB02Y) or one full-course equivalent in

literature. Offered 1993/94

The Individual and the HUMB46S Totalitarian State

Offered 1993/94 Introduction to Cinema HUMB70Y Exclusion: INI112.

> **NEW112** Offered 1993/94

HUMC14Y Topics in Latin American Culture and Literature

Exclusion: SPAB38 (HUMB14)

Offered 1993/94 Beyond Nihilism: Visions HUMC53S

of Renewal

Exclusion: (LITB51) Prerequisite: HUMB02Y (LITA01) or ENGA11Y (ENGA01) or FREB02 or one full-course equivalent in

literature. Offered 1993/94

DRAB07Y

Dramatic Literature and Political Revolution Exclusion: (JDHB16) (JHGB50) (LITB15) (HUMB48)

Prerequisites: One fullcourse equivalent in literature.

Not offered 1993/94

International **Development Studies**

Major Programme in International Development Studies

Supervisor: J. Boddy The dimensions and diversity of problems facing developing countries have involved many academic disciplines. At the Scarborough Campus the Major Programme in Development Studies is based primarily on existing courses taught by faculty members actively involved in development problems. In organizing the Programme an attempt has been made to provide a core of fundamental knowledge which can be applied in Third World countries. Students may then select additional courses from a broad range of relevant courses at the Scarborough and St. George Campuses which will allow more specialized thematic or regional concentration. Students enrolling in this Programme are strongly advised to combine it with a major programme in a related discipline. The Programme is designed both for students with a broad general interest in developing countries or those with some interest in pursuing a course in development studies. Students in the latter category should seriously consider the more intensive Cooperative Programme in International Development Studies.

Students must complete: IDSB01Y

IDSB02Y

Political Economy of International Development Development Studies: Physical and Ecological Resource Management

They must also complete at least three full-		*ECOB11F/S	Ouantitative Methods in	
course equivalents from the following:		200211175	Economics	
(Courses marked with an asterisk have		*GGRB03Y	Climatology	
prerequisites.		GGRB19Y	General Geomorphology	
*ANTC10F/S	Anthropological	*GGRC20F/S		
	Perspectives on	*GGRC29S	Problems in Modern	
	Development		Agricultural Land Use	
*BIOB14F	Environmental Biology	*GGRC38F	Hydrology: Estimation and	
*ECOC66F	Economic Development		Forecasting	
*ECOC67S	Development Policy	*GGRD07S	Hydrology: Physical	
*GGRB35F	Introduction to Soil Science		Processes and Modelling	
*GGRC40S	Soil Management in	POLC95Y	Politics and Society in	
	Tropical Regions		Tropical Africa	
POLB80Y	International Relations	POLC98Y	Politics and Society in Latin	
POLB91Y	Politics of the Third World		America	
*SOCC17F	Social Change in the Third	POLD93F	Selected Topics on	
	World		Developing Areas	
	three full-course equivalents	POLD94S	Selected Topic on	
should be selected from the following:			Developing Areas	
(Courses not selected as the three core		WSTC10Y	Women and Development	
courses in the group above may be				
included.)			ajor Programme in	
*ANTB01Y	Ecological Anthropology		Development Studies requires	
ANTB03F/S	The Americas: an	a minimum of eight full-course equivalents		

a minimum of eight full-course equivalents from the courses listed above, together with appropriate prerequisites. These normally involve A-level prerequisites in each discipline selected. It is possible to complete the Programme within three years, as shown in Example 1 below. Example I (three-year degree) First Year: IDSB01Y, IDSB02Y, ECOA02Y or ECOA03Y, GGRA05F/S, SOCA01Y Second Year: ECOB03Y, GGRB35F, GGRC40S, ANTB20Y, POLB80Y, POLB91Y Third Year: ECOC66F, ECOC67S, SOCC17F, POLC95Y, POLD93F, POLD94S However, students are strongly advised to register in a four-year degree which requires a Major (or Specialist) in a discipline as well as a Major in International Development Studies. In Example 2 a Major in Political Science would be obtained along with a Major in International Development Studies. Example 2 (four-year degree) First Year: ECOA02Y or ECOA03Y, POLA50Y (POLA01Y), SOCA01Y, ANTA01Y, GGRA05F/S ANTB05S, BIOB14F, ECOC66F,

Second Year:

IDSB01Y, IDSB02Y, ECOB03Y,

ANTB20Y, POLB91Y

Third Year:

ECOC67S, POLB70Y, POLB80Y

Fourth Year:

ANTC11Y, ANTC56Y, POLC87Y, POL98Y, POLD93F, POLD94S

Approach

Price Theory

Price Theory: A

Mathematical

Approach

Policy

Anthropological

African Cultures and

Comparative Slavery

and the Islamic World

The Anthropology of

African Cultures and

Cultures of the Middle East

Societies II: Case Studies

Economic Anthropology

Quantitative Methods in

Medical Anthropology

Fieldwork in Social and

Cultural Anthropology

Fundamentals of Ecology

Ecology of Arid Regions

Introduction to Economics:

A Mathematical Approach

Introduction to Economics

Macroeconomic Theory and

Macroeconomic Theory and

Policy: A Mathematical

The Anthropology of Food

Societies I: Survey

Social and Cultural

Anthropology

Anthropology

Women

Perspective

*ANTB05F

*ANTB07F/S

*ANTB20Y

*ANTB55Y

*ANTC06S

*ANTC11Y

*ANTC19F

*ANTC35F

*ANTC51Y

*ANTC56Y

*BIOB12Y

*BIOC50F

ECOA02Y

ECOA03Y

ECOB03Y

ECOB04Y

(ECOB03Y)

ECOB07Y

ECOB08Y

(ECOB07Y)

(ECOA01Y)

(ECOA01Y)

*ANTC60F/S

Italian

Discipline Representative: D. McAuliffe (287-7168)

Scarborough College offers a range of courses on the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITAA01/A02 or ITAA11. ITAA01/A02 students may then take ITAB01; students from ITAA11 may take ITAB11. One of the two courses (ITAB01 and ITAB11) is pre- or corequisite to all other ITA courses taught in Italian. Students with other types of language preparation should consult the Discipline Representative before choosing their course of study. In all courses, emphasis is given to spoken as well as written aspects of the language.

Courses offered by other disciplines may prove directly valuable to students in Italian as adjuncts to their plan of study or as an enrichment of their total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, English, French, Latin, Spanish, and Humanities.

Students enrolled in Italian, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students are not allowed to take any Alevel courses in Italian language while taking or after completing any B-level course in Italian language.

Students may be excluded from any course if their knowledge of Italian is deemed by the instructor to exceed the level of the language of that course.

Students in the Major Programmes may satisfy some of their Programme requirements through a Study Elsewhere Programme operated by the University of Toronto at Siena.

Major Programme in Italian Language

Supervisor: J. Campana (287-7180)
The Programme combines the study of language and some aspects of Italian culture and civilization. It has two streams, according to the student's background. Students should complete seven full-course equivalents, as follows:
Option A (for students who have no prior knowledge of Italian or its dialects):

1 ITAA01Y Introductory Italian
and
ITAA02H Language Practice
2 ITAA03S Conversation II
or
ITAB03F/S Intermediate Conversation

3 ITABO1Y Intermediate Italian I
4 ITACO1Y Language Practice

5 ITAC22F/S Introduction to Modern and Contemporary Literature
6 ITAC23F/S Survey of Italian Literature from the Middle Ages to

the Renaissance
7 One full-course equivalent from among the following:
ITAC04F/S, ITAC05F/S, ITAC08F/S,
ITAC20F/S, ITAC71F/S
8 LINA01Y 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

ITAB03F/S Intermediate Conversation
3 ITAB11Y Intermediate Italian II
4 ITAC01Y Language Practice

5 ITAC22F/S Introduction to Modern and Contemporary Italian
Literature

6 ITAC23F/S Survey of Italian Literature from the Middle Ages to the Renaissance

7 One and one-half full-course equivalents from among the following: ITAB03F/S (for the students who completed 2 with ITAA03S), ITAC04F/S, ITAC05F/S, ITAC08F/S, ITAC20F/S, ITAC71F/S

8 LINA01Y General Linguistics

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of Italian. Appropriate courses from the Discipline's offerings will be substituted. Students are strongly advised to discuss their Programme as soon as possible with the Supervisor.

Major Programme in Italian Language and Literature

The Major Programme in Italian Language and Literature is no longer offered, but students currently enrolled in it will be allowed to complete the programme.

TTAA01Y Introductory Italian

Telephone ID #: 08610163 An elementary course for students with no knowledge of Italian which must be taken together with ITAA02H. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Our aim is to provide a relaxed friendly atmosphere in which to study basic standard Italian grammar and syntax. Importance is given to exercises which develop the practical skills of understanding and speaking needed for the corequisite course A02H. The basic Italian textbook is supplemented by dialogues made up by the students and easy readings commencing as early as progress in the textbook permits. A programme is also provided in the language laboratory. Students are expected to participate in classroom exercises, hand in written assignments completed outside the classroom, and write monthly tests. Exclusion: OAC Italian or Grade 13 Italian or ITAA11; ITA100 Corequisite: ITAA02. It is also recommended that students enrolled in ITAA01 and ITAA02 take ITAA03 concurrently with them in the Spring term. Session: Winter Day D. McAuliffe Offered every year

ITAA02H Introductory Italian Language Practice

Telephone ID #: 08610243 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. Classtime is devoted entirely to conversing in Italian. At the beginning students are given set dialogues which they practise with one another. As they gain confidence and knowledge of the language they are encouraged to prepare their own dialogues and conversations based on situations and topics of interest. Exclusion: OAC Italian or Grade 13 Italian:

Exclusion: OAC Italian or Grade 13 Italian ITA101

Corequisite: ITAA01 Session: Winter Day D. McAuliffe Offered every year

ITAA03S Conversation II Telephone ID #: 08610353

Practical application of the language structures introduced in ITAA01 and ITAA11.

Students are encouraged to speak Italian in a relaxed, informal classroom atmosphere. Conversations are based on situations that the student is likely to encounter in Italy as well as on readings prepared at home from literary works,

newspapers, and magazines. Among the topics chosen are the geography, history, politics, economics, and cultural life of contemporary Italy.

Exclusion: ITA101

Corequisite: ITAA01 or ITAA11
Session: Winter Day
A. Franceschetti

ITAA11Y Elementary Italian

Offered every year

Telephone ID #: 08611163 An elementary course for native speakers with little or no knowledge of standard Italian usage.

The course aims at giving a basic knowledge of speaking, reading, and writing Italian. The main objective is to free the student from phonological, lexical, and grammatical interference arising from the use of dialects and English in the Italian community. Basic grammar rules will be studied and modern prose passages will be analyzed from the point of view of grammatical structure, lexical choice, and idiomatic expressions. The course will be conducted almost entirely in Italian. Use of the language laboratory is highly recommended.

Exclusion: OAC Italian or Grade 13 Italian

or ITAA01; ITA110 Corequisite: It is strongly recommended that students enrolled in this course take ITAA03 concurrently with it.

Session: Winter Day

J. Campana Offered every year

ITAB01Y Intermediate Italian I

Telephone ID #: 08620163 A continuation of ITAA01. Intensive review of grammar, with drills, exercises, and compositions.

The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted in Italian whenever possible. Exclusion: ITAB11; ITA152, ITA250, ITA251, ITA252

Prerequisite: ITAA01 or OAC Italian or Grade 13 Italian

Corequisite: It is strongly recommended that students enrolled in this course take

ITAB03 concurrently with it. Session: Winter Day D. McAuliffe Offered every year

ITAB03S Intermediate Conversation Telephone ID #: 08620353

An advanced course in conversation for those students with sufficient knowledge of Italian.

This course offers the opportunity to improve oral and aural skills in Italian. Attention will be given to idioms and special constructions in readings or in discussions focusing on Italian culture and civilization. Students will be expected to prepare topics of common interest for discussion in class by doing background reading on selected topics and by preparing the specialized vocabulary of those topics. At least one oral report and two skits (one prepared and one improvised) will be required of each student. Corequisite: ITAB01 or ITAB11 Session: Winter Day A. Franceschetti Offered every year

ITAB11Y Intermediate Italian II Telephone ID #: 08621163 A continuation of ITAA11Y.

The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of passages of modern Italian prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write compositions on the readings discussed in class or on topics of general interest. The course will be conducted in Italian. Exclusion: ITAB01; ITA152, ITA250, ITA251, ITA252 Prerequisite: ITAA11

Corequisite: It is strongly recommended that students enrolled in this course take ITAB03 concurrently with it.

Session: Winter Day J. Campana Offered every year

FTAC01Y Language Practice Telephone ID #: 08630163

An advanced language course focusing on complex problems of Italian grammar.

This course is designed to give students an opportunity to improve their knowledge of written and oral Italian on an advanced level. Specific points of grammar, syntax, and style will be discussed and exemplified with drills and exercises. Students will be asked to write short compositions. A

selection of passages by modern Italian authors will provide the necessary material for stylistic analyses, summaries, and paraphrases.

Exclusions: ITA350, ITA351, ITA352 Prerequisite: ITAB01 or ITAB11

Session: Winter Day J. Campana Offered every year

ITAC05F Practical Translation

Telephone ID #: 08630533 Practice in translating from English to Italian and from Italian to English, combined with analysis and discussion of a wide variety of texts in terms of type of language and style of expression.

Class time is devoted to increasing the student's proficiency. Examples of colloquial, journalistic, literary, technical, and business expression will be translated and analysed. Exclusion: (ITAB05); ITA271, ITA371 Corequisite: ITAB01 or ITAB11

Session: Winter Day TBA

Not offered 1993/94

ITAC22F Introduction to Modern and Contemporary Literature

Telephone ID #: 08632233 An introduction to literary movements, masterpieces, and authors from the eighteenth century to contemporary times.

Selections from the works of influential novelists, poets, and dramatists will be examined in relation to the different linguistic and cultural backgrounds from which they sprang, and to the major modern theme of the individual in society. Texts include works by Goldoni, Manzoni, Leopardi, Verga, D'Annunzio, Pirandello, Pavese, and Calvino.

This course will be conducted in Italian and will be a combination of lectures and discussion.

Exclusion: (ITAB22); ITA120, ITA226 Prerequisite: ITAB01 or ITAB11 Session: Winter Day D. McAuliffe Offered every year

ITAC23S Survey of Italian Literature from the Middle Ages to the Renaissance

Telephone ID #: 08632353 An introduction to the main literary movements, masterpieces, and authors from the beginning of Italian literature to the end of the seventeenth century.

This course is intended to give the student a knowledge of the early development of Italian literature in its

historical context as well as to develop the student's ability to read the early literary language of Italy. The passages to be read and discussed will include selections from "Dolce Stil Novo," Dante's Divine Comedy, Petrarch's Canzoniere, Boccaccio's Decameron, Poliziano's Stanze. Machiavelli's Principe, Ariosto's Orlando Furioso, and Tasso's Gerusalemme Liberata. Lectures and discussion in Italian, A

one hour tutorial will be provided for those who need additional help with the Italian language. Exclusion: (ITAB23)

Prerequisite: ITAB01 or ITAB11 Session: Winter Day

A. Franceschetti Offered every year

ITAC71S Italian Cinema Telephone ID #: 08637153

A survey of the development of Italian cinema from World War II to the present.

Films by Bertolucci, Antonioni, Fellini, Pasolini, and other post-war Italian directors will be shown during the course. which will meet four hours per week. Besides participating in the discussions, students will be required to write a brief review on four films, and one end-of-term essay for which a cinematic project (a short film plus a scenario) may be substituted. This course is open both to students with no previous knowledge of Italian language and culture and to specialists in Italian. Specialists in Italian will be expected to do their written work in Italian. Exclusion: (JHIB71);ITA240, (JHIC71) Prerequisite: For those taking the course as part of a Programme in Italian, ITAB01 or ÎTAB11; for others, none. Session: Winter Day J. Campana Offered every year

ITAD50F-54F ITAD55S-59S

ITAD60Y Supervised Reading

These courses are designed to provide advanced students with an opportunity to pursue independent study on specific aspects of Italian language and literature of their own choice. The students are expected to do most of the reading on their own and to meet regularly with a faculty member to discuss problems arising from the chosen topic of study. The teaching method and the evaluation will vary according to the subject matter and the individual student. Interested students should contact the Discipline Representative. Exclusion: (ITAC50-54F, ITAC55-59S,

Prerequisite: One full-course equivalent in Italian literature. Session: Winter Day Staff Offered every year

Courses Not Offered in 1992-93

ITAB31Y Dante's Divine Comedy Exclusion: ITAC31Y;

ITA321

ITAC04F Advanced Composition Exclusion: (ITAB04); ITA450, ITA452

> Corequisite: ITAB01 or ITAB11

ITAC08F Comparative Translation of Italian and French Prerequisite: ITAB01 or ITABÎ1 plus FREB10 or FREB08; or permission of

instructor.

ITAC20F Modern Italy

Exclusion: (HUMB18), (ITAB20); ITA245 Prerequisite: ITAB01 or ITABÎ1

ITAC31Y Dante and Medieval Culture Exclusion: ITAB31; ITA321 Prerequisite: ITAB01 or

ITAB11; a course in Italian Literature such as ITAC22 and ITAC23, is

recommended but not required.

ITAC45F

The Nineteenth-Century Italian Novel in Transition Exclusion: (ITAB45); ITA222

Prerequisite: ITAB01 or ITAB11: a course in Italian literature, such as ITAC22 and ITAC23, is recommended but not

required.

Language and Literature

The Specialist Programme in Language and Literature is no longer offered but students currently enrolled in it will be allowed to complete the programme.

Language Studies

The following Programmes are offered in Languages:

Specialist Programme in Modern Languages

Supervisor: U. Sherman 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 one course in 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.

Students in these Programmes may satisfy some of their Programme requirements through a Study Elsewhere Programme operated by the University of Toronto at: (French) Aix-en-Provence, (Italian) Siena, and (Spanish) Granada. German offers a summer work programme in the Federal Republic of Germany.

For every combination, students must satisfy the following requirements:

- The courses listed under the Major Programmes in two of: French, German, Italian, Linguistics, Spanish.
- LINA01Y General Linguistics, except where already included in the Major Programme.
- LATA01Y or OAC French or Grade 13 French.
- One full-course equivalent from the following, the choice to be approved by the Supervisor, for every combination other than French/Spanish: HISA01Y European World HUMA01Y Prologue

Specialist Programme In Management and Language

Registration in this Programme is limited. Please refer to the Management section of the Calendar for details. The Management and Economics and Humanities Divisions have co-operated to develop joint programmes in Management and French, German, Italian and Spanish. The Management requirement for any of these

programmes is the first five requirements for the Specialist in Management.

Language requirements consist of five full-course equivalents in one language, made up of A. Basic Language, B. Business Language, C. Civilization, as follows:

French

- A. FREA10, FREB10, one full-course equivalent from FREC01, FREC02, FREC04, FREC05
- B. At least one full-course equivalent from FREB18, FREC18
- C. At least one half course from FREB22, FREB23, FREB27, FREB28
- An additional half course in French

German

- A. GERA09, GERA10, GERB19, GERC10
- B. GERC11
- C. GERC01

Italian

- A. ITAA01 and ITAA02 or ITAA11, and ITAA03, ITAB01 or ITAB11, ITAB03,
- B. One half course from ITAC04, ITAC05
- One half course from ITAA50, ITAB20, ITAC71

Spanish

- A. SPAA01, SPAA02, SPAB01, SPAB04*
- SPAC02
- C. SPAB15 or HUMC14
- Students taking HUMC14 are not required to take SPAB04

Major Programme in French Language

Seven full-course equivalents, including:

- 1 FREA10Y, FREB10Y, one full-course equivalent from the sequence FRECOIF/S - CO5F/S
- 2 two full-course equivalents from the following: FREB08F/S, FREB18Y, FREB25Y, FREB42F/S, FREB43F/S, FREB48Y, FREC09Y, FREC18F/S.
- 3 two other full-course equivalents in French, only one of which may be chosen from group (2).
- Students may include in their Programme a maximum of one supervised reading course.

The following may not count toward a Major Programme in French Language: FREB90F/S.

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

Minor Programme in French Students should complete four full-course equivalents

- 1 FREA10Y
- FREB10Y
- 3 Plus two further FRE courses, at least one of which must be at the C-level, and excluding FREB82, FREB90

Major Programme in German Language

Seven full-course equivalents as follows: GERA10Y Introductory German

and GERA09H Language Practice I GERB20Y Intermediate German and GERB19H Language Practice II

GERC01F/S The Last Hundred Years GERC02F/S History of the German Language

GERC03F/S Language in a Literary Context

GERC09F/S Language Practice III GERC10Y Advanced German LINA01Y General Linguistics

Minor Programme in Modern Greek Students must complete four full-course equivalents as follows:

- 1. CLAA01Y or CLAA02Y
- 2. GRKB10Y
- 3. Two other full-course equivalents from: GRKB23, GRKC22, GRKC23, GRKC24

Major Programme in Italian Language

Seven full-course equivalents, as follows: Option A (for students who have no prior knowledge of Italian or its dialects):

1 ITAA01Y Introductory Italian and ITAA02H Language Practice 2 ITAA03S Conversation II

ITAB03F Intermediate Conversation 3 ITAB01Y Intermediate Italian I

ITAC01Y Language Practice

ITAC22F/S Introduction to Modern and Contemporary Literature

6 ITAC23F/S Survey of Italian Literature from the Middle Ages to the Renaissance

- 7 One full-course equivalent from among the following: ITAC04H, ITAC05F/S, ITAC08F/S, ITAC20F/S, ITAC71F/S
- 8 LINA01Y General Linguistics

Option B (for students with some prior knowledge of Italian or one of its dialects):

- 1 ΠΑΑ11Y Elementary Italian
- 2 ITAA03S Conversation II

	or	
	ITAB03F/S	Intermediate Conversation
•	TOTAL AND A SEC	T . 11 . T. 11 TT

ITAB11Y Intermediate Italian II ITAC01Y Language Practice

5 ITAC22F/S Introduction to Modern and Contemporary Italian Literature

6 ITAC23F/S Survey of Italian Literature from the Middle Ages to the Renaissance

7 One and one-half full-course equivalents from among the following: ITAB03F (for the students who completed 2 with ITAA03S), ITAC04H, ITAC05F/S, ITAC08F/S, ITAC20F/S, JHIC71F/S

8 LINA01Y General Linguistics

Major Programme in Spanish Language

Seven full-course equivalents as follows:

SPAA01Y Introductory Spanish SPAA02H Introductory Spanish Language

Practice SPAB01Y Intermediate Spanish

SPAB02H Intermediate Spanish Language Practice

SPAB04F Phonetics

History of the Spanish SPAB12S

Language

SPAC01Y Advanced Spanish The Civilization of Spain I SPAB14F

and

SPAB15S The Civilization of Spain II

HUMC14Y Topics in Latin American

Culture and Literature SPAC21F Stylistics and Translation

SPAC22F History of the Spanish

Language II

(Note: Students who have OAC Spanish or Grade 13 Spanish must complete, in place of SPAA01 and A02, one and one-half fullcourse equivalents from SPA or HUM courses which concentrate on Spanish language, culture, or literature, to be arranged with the Supervisor.)

Language requirements for any of the above Programmes will be waived by the Supervisor for students judged to have advanced knowledge of the language.

Equivalent courses will be substituted in consultation with the Supervisor.

Minor Programmes

Three options are proposed. For students who are not interested in the degree of concentration provided by the Major Programme these options offer coherent groupings of courses whose focus and

linguistic empha	asis vary with the different		Specific Purposes
	ts' language preparation.	FREC09Y	Comparative Stylistics
1 Spanish Lan	guage	(FREC11F/S	Teaching French as a
SPAA01Y SPAA02H		(FREC18F/S	Second Language) Translation for Business
SPAB01Y		(FRECIOF/S	and Professional Needs)
	(or another half course in		
	SPA in consultation with	GERA10Y	Introductory German
SPAC01Y	supervisor)	GERA09H GERB20Y	Language Practice I Intermediate German
	d Hispanic Culture	GERB19H	Language Practice II
Students with	OAC or Grade 13 Spanish	(GERC02F/S	History of the German
or SPAA01Y SPAB01Y	and A02H	GERC03F/S	Language)
SPAB15F/S		GERCUST/S	Language in a Literary Context
SPAC01Y		GERC09F/S	Language Practice III
SPAC21F/S	(or another half course in	GERC10Y	Advanced German
	SPA in consultation with supervisor)	(GRKA01Y	Introductory Greek)
HUMC14Y	supervisor)	GRKB02F	Introduction to Greek
	d Hispanic Culture: Native		Authors
Speakers SDA DOAFG		GRKB10Y	Intermediate Modern Greek
SPAB04F/S SPAB14F/S			Greek
SPAB15F/S		ITAA01Y	Introductory Italian
SPAC01Y		ITAA02H	Introductory Italian
SPAC21F/S HUMC14Y		ITAA03S	Language Practice Conversation II
Homelal		ITAA11Y	Elementary Italian
	also refer to the following	ITAB01Y	Intermediate Italian I
Programmes:		ITAB03F	Intermediate
Classical Studie	s	ITAB11Y	Conversation I Intermediate Italian II
Linguistics	•	ITAC01Y	Language Practice
TD1 C 11 :		(ITAC04F	Advanced Composition)
	ourses are offered in full course descriptions,	ITAC05F/S	Practical Translation
	isites, course cycling, etc.,	LATA01Y	Introductory Latin
see under French, Classics, German, Italian,		(LATB02F	Introduction to Latin
Russian, Spanish not offered in 19	1. Courses in brackets are		Authors)
not offered in 1	732-3 3.)	RUS	Students with an advanced
FREA10Y	Language Practice I		knowledge of the
(FREA16Y FREB08F/S	Introductory French II) Practical Translation		language may take: RUSC02H-C05H
FREB10Y	Language Practice II		Supervised Reading
FREB17F/S	Intermediate		
EDED10V	Conversation II	SPAA01Y	Introductory Spanish
FREB18Y (FREB25Y	Commercial French Introduction to French	SPAA02H	Introductory Spanish Language Practice
(I KEB251	Linguistics)	SPAB01Y	Intermediate Spanish
FREB42F/S	General History of the	SPAB02H	Intermediate Spanish
/EDED/2E/C	French Language)	CDADA4E	Language Practice
(FREB43F/S	The French Language in Canada)	SPAB04F SPAB12S	Phonetics History of the Spanish
FREC01F/S	Advanced Written French		Language I
ED E CASE (S	for General Purposes	SPAC01Y	Advanced Spanish
FREC02F/S	Advanced Written French for Specific Purposes	(SPAC21F	Stylistics and Translation)
FREC04F/S	Oral Communication for	(SPAC22F	History of the Spanish
	General Purposes		Language II)
FREC05F/S	Oral Communication for	See also courses i	n LINGUISTICS

Latin

Courses are offered in introductory Latin (LATA01, LATB02) and Latin literature (LATB11, LATC30, etc.).

LATA01Y Introductory Latin

LATC30F-34F

LATC35S-39S Supervised Reading

LATC40Y

For further information see under Classical Studies

Linguistics

Discipline Representative: J.D. Woods (287-7172)Linguistics deals with all possible aspects of language. It has its own theory about the basic structure of language in such core areas as phonetics (what human sounds are possible speech sounds; how are they made and perceived?); phonology (how do languages choose sounds from the inventory of possible speech sounds to make the sound system of any given language?); morphology (how do sounds combine to form words?); syntax (how do we build sentences?); and semantics (the study of meaning in all its possible forms). Linguistics studies how language changes over time and what forces cause such change.

Linguists have interests in common with psychologists (psycho-linguistics-what's the relationship between language and mind? How does a child learn its language, or a second or subsequent language? What can language tell us about how the mind works? What's wrong when language goes wrong?); sociologists (sociolinguistics -- what's the relationship between language and society? How does your use of language tell people about your social roles and relations?); anthropologists (ethnolinguistics -- what's the relationship between language and culture? What does your use of language tell others about your cultural values?); computer scientists (much of computer language "syntax" is based on that of human language); and students/teachers of languages (a teacher, in particular, has to be keenly aware of the structure of the language she/he is teaching). Ultimately, a strong awareness of language is important, even in seemingly unrelated areas, such as law,

where a knowledge of syntax and semantics is of primary importance.

Specialist Programme in Linguistics Supervisor: J.D. Woods (287-7172)

The Specialist Programme in Linguistics: Thirteen full-course equivalents, as follows:

LINA01Y General Linguistics or

LINA05Y Practical Language Study
2 LINB01Y Practical Language
Analysis

and
LINBO9F Phonetics
LINC02S Phonology
and

LINC11Y Syntax

4 Three further C- or D-level full-course equivalents in LIN including PLIB55S, PLIC24S and PLID55F, or in a related discipline, as approved by the Supervisor of Studies.

5 Two further full-course equivalents in LIN including PLIB55S, PLIC24S and PLID55F.

6 One full-course equivalent from among the following courses:

FREB25Y* Introduction to French Linguistics FREB48Y* Theoretical and Practical

Phonetics
FREC09Y
Comparative Stylistics
General History of the

FREC42F General History of the French Language FREC43S The French Language in

Canada

GERC02F/S* History of the German Language

PHLB80F Philosophy of Language SPAB04F/S* Phonetics

SPABU4F/S* Phonetics SPAB12F/S* History of the Spanish

Language I
*Students should check these courses for

prerequisites.
Two full-course equivalents in a language which is not the student's native language.

8 One full-course equivalent in a third language or equivalent demonstrated ability.

Please note: Neither LINA04S nor LINB05Y can be counted toward the Specialist Programme in Linguistics.

Major Programme In Linguistics Supervisor: J.D. Woods (287-7172) The Major Programme in Linguistics: Seven full-course equivalents, as follows:

LINA01Y General Linguistics or LINA05YPractical Language Study 2 LINB01Y Practical Language Analysis

and

LINBO9F Phonetics

3 LINCO2S Phonology and LINC11Y Syntax

a. Three further full-course equivalents in LIN including PLIB55S, PLIC24S and PLID55F, of which at least one must be at the C- or D-level.

b. Two further full-course equivalents in LIN including PLIB55S, PLIC24S and PLID55F and one C-level full-course equivalent in a language. (Only 4a. is permitted when this programme is taken as part of the Modern Languages Specialist Programme.)

Please note: Neither LINA04S or LINB05Y can be counted toward the Major Programme in Linguistics.

Minor Programme in Linguistics Supervisor: T.B.A.

The Minor Programme in Linguistics: Four full-course equivalents, as follows:

1 LINA01Y General Linguistics 2 LINB01Y Practical Language Analysis

3 Two further full-course equivalents in either LIN or PLI, of which at least one must be at the C- or D-level.

LINA01Y General Linguistics: the Theory of Language

Telephone ID #: 20010163 An introduction to the various methods and theories of language analysis, and to the relationships between language and mind, language and culture, and language and society.

Topics such as the following will be covered: sound patterns in languages; word formation; sentence structure; meaning; different varieties of language and social attitudes towards them; how languages change; how children learn language; language and the brain.

Enrolment limited to 55 students per

section.
Exclusion: (LINA05Y) LIN130
Section: Winter Day

Session: Winter Day

R. Smyth Offered every v

Offered every year

LINB01Y Practical Language Analysis Telephone ID #: 20020163

Analysis of sound, word and sentence structure in a broad variety of languages of the world. Starting with the techniques of

linguistic analysis studied in LINA01 or LINA05, students will analyze phonological, morphological, and syntactic data from a representative variety of language types. Problem sets will be distributed in class. Lectures will focus on how to organize data for analysis, how to draw upon general principles of language structure to identify possible solutions, and how to decide which of several competing solutions is best. Implications for different schools of linguistic theory will also be discussed. Students are strongly urged to take LINB09F in the same year as LINB01Y. Exclusion: LINB02, LINB16 Prerequisite: LINA01 (LINA05) Session: Winter Day D.M. James Offered every year

LINB09F Phonetics: the Study of Speech Sounds

Telephone ID #: 20020933 The physiological and acoustic bases of speech.

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 transcription. We will discuss material from the prescribed readings and problems which are to be solved. Students are strongly urged to take LINB09F in the same year as LINB01Y. Exclusion: LIN228

Prerequisite: LINA01 (LINA05)

Session: Winter Day

J.D. Woods Offered every year

PLIB55F Psycholinguistics Telephone ID #: 34825533

Experimental evidence for theories of how humans produce and understand language, and of how language is represented in the mind.

Topics will include the perception and categorization of speech sounds; retrieval of words from memory during speech and listening; use of grammatical knowledge in planning and understanding sentences; production and comprehension of longer stretches of discourse; and the role of memory systems in language processing Exclusion: JLP374 (JLPB55F)
Prerequisite: One full-course equivalent in LIN and PSYA01
Session: Winter Day R. Smyth
Offered every year

LINCO2S Phonology: Sound Systems of Language

Telephone ID #: 20030253 Theoretical issues of phonology.

We will attempt to cover both Generative theory and several aspects of Non-linear theory (Underspecification, as well as the theories of Lexical, Metrical, and Autosegmental phonology).

This course will assume familiarity with phonological problem-solving methods; we will read, discuss, and evaluate basic works from the recent theories outlined above. Students are strongly urged to take LINBO9F before LINCO2S.

Exclusion: LIN421 Prerequisite: LINB01Y Session: Winter Day J.D. Woods Offered every year

LINC11Y Syntax: the Study of Sentence Structure

Telephone ID #: 20031163 The principles underlying the formation of sentences.

Students will analyze linguistic data so as to determine the principles and constraints which govern sentence formation and the expression of meaning via sentence structure. Particular attention will be paid to those features of syntax which appear to be universal in languages; a focus of concern will be the ways in which these may be best accounted for in a general theory of syntax. Current theoretical approaches will be studied in detail. Exclusion: (LINB11) LIN431

Prerequisite: LINB01 Session: Winter Day D.M. James Offered every year

PLIC24S Developmental Psycholinguistics Telephone ID #: 34832453

Descriptions of children's pronunciation, vocabulary, and grammar at various stages of learning their first language, and theories of the linguistic knowledge and cognitive processes that underlie and develop along with language learning.

Exclusions: (LINB15), (PLIB24) JLP315 (JLPC24S)

Prerequisite: One full-course equivalent in LIN and PSYA01, and one B-level full-course equivalent in either LIN (including PLIB55S) or PSY.

Session: Winter Day R. Smyth
Not offered 1993/94

Offered 1994/95

LINC25F Second Language Learning

Telephone ID #: 20032533

The stages adults and children go through as they learn a second or subsequent language.

The course examines theories of the linguistic, cognitive, neurological, social, and personality variables that affect second language acquisition. Implications for second language teaching are also discussed.

Prerequisite: One full-course equivalent in LIN and PSYA01; and one B-level full-course equivalent in either LIN (including

PLIB55S) or PSY. Session: Winter Day R. Smyth Not offered 1993/94 Offered 1994/95

LIND21Y Investigation of a Language Telephone ID #: 20042163

Linguistic theory put to work through analysis of a language which is not familiar to the students in the course. The language will vary from year to year, depending on who is involved in the course.

The aim of this course is to allow advanced students of Linguistics to apply their theoretical knowledge of the field to the practical problem of creating a grammar of a language. Normally, we work on a non-Indo-European language, with the help of a native speaker of that language. The course requires a great deal of participation and teamwork from all its members. We aim to produce a grammar of the language by the end of the year.

Exclusion: (LINC21)
Prerequisite or Corequisite: LINC02,
LINC11
Session: Winter Day
J.D. Woods
Not offered 1993/94, 1994/95

LIND01F/S LIND02F/S LIND03F/S LIND04F/S

LIND05Y Supervised Reading

Interested students should contact Professor J.D. Woods, Supervisor of Studies. The aim of these courses is to allow the advanced student of Linguistics to engage in research; this research is normally at a level which is more advanced than other Linguistics courses which the student has already taken, and in an area which is of the student's own choosing. Methods of

research and of evaluation are as varied as the possible areas of research. Exclusion: LIN495, 496, 497, 498 Prerequisite: At least one B-level fullcourse equivalent in Linguistics; permission of instructor. Session; Winter Day Staff Offered every year

Courses Not Offered in 1992-93

LINA04S Introduction to Language Exclusion: LIN200 students who have credit for LINA01 or LINA05. LINA01 in the same session. Not offered 1993/94 or 1994/95 LINB03S Sociolinguistics: the Study of Language and Society Exclusions: (LINB14, LINC15, LINB07) Prerequisite: LINA01 (LINA05), or LINA04 with permission of instructor. Offered 1993/94 Not offered 1994/95 LINB27F Animal Communication and the Nature of Language Prerequisite: One course in or BIO Not offered 1993/94 Offered 1994/95 LINC06S Language Change Prerequisite: LINA01 (LINA05) Not offered 1993/94 Offered 1994/95 LINC12F Semantics: The Study of Meaning Corequisite: LINB01Y Not offered 1993/94 or 1994/95 LINC14S Pragmatics: The Study of Language Use Prerequisite: LINC12 Not offered 1993/94 or 1994/95 LINC26F Second Language Teaching Not offered 1993/94 or 1994/95 LINC28F

LINA04 may not be taken by and LINA04 may not be taken LIN, or PSY, or SOC, or ANT, Exclusion: (LINB04) LIN348 Language and the Sexes Exclusion: (LINB28) Prerequisite: One full-course

equivalent on the B-level in

ANT, LIN, PSY, SOC, or

WSTA01Y Offered 1993/94 Not offered 1994/95 Disorders of Speech and Language Exclusion: (LINB29, JLPC55, JLPD55F/S) Prerequisites: One full-course equivalent in LIN and PSYA01, and one C-level full-course equivalent in LIN (including PLIC24S) or PSY Offered 1993/94 Not offered 1994/95

Management

PLID55F

Chair: Professor Sandford Borins The 1992-93 academic calendar year will see the introduction of important changes in the Management programmes at Scarborough College. These changes are guided by our mission statement, which follows:

The Scarborough programme in management will provide high-quality preprofessional management education within the context of a liberal arts education for students interested in managerial careers; it will provide introductory education about organizational life for any student enroled at Scarborough College; and it will develop and support a group of faculty who are actively engaged in research that contributes to the advancement of management knowledge and the quality of instruction.

The first part of the mission statement will be achieved through the Specialist programmes in Management, which are intended to prepare students for careers in the public or private sectors or in accountancy. The second part of the mission statement will be achieved through our Introduction to Management course (MGTA02). The third part of the mission statement refers to faculty development initiatives now underway.

The College does not currently offer the Bachelor of Commerce (B. Comm.) degree. Students who wish to obtain the B. Comm. must either enter or transfer to another college of the University (at the St. George or Erindale campus). Because of differences in course and degree requirements, such transfers should take place as early as possible in a student's career. Since many Commerce courses at the St. George Campus are subject to limits on

enrolment, Scarborough College students should not assume that they will be able to take Commerce courses at that campus where a comparable course is not available at Scarborough.

Admission to graduate studies leading to 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 MGTA02 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 most Management courses and on admission to Programmes. Information on how to apply for admission to a Programme and to limited enrolment courses will be available prior to the end of classes in April.

Prerequisites: Prerequisites will be strictly enforced for all Management 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.

Management Programmes There are three Specialist Programmes in Management, which are described below. These programmes are substantially different from the Specialist Programmes offered in the 1991-92 calendar. In addition, the Major Programme in Management is no longer being offered. Students admitted to the Specialist or Major programmes in 1991-92 or earlier will be allowed to complete their programmes as described at the time of admission. Alternatively, they may wish to follow one of the programmes described below. They should consult with the Supervisor about this choice.

Admissions

Each year a total of 160 students are admitted to the Specialist Programmes. There are three possible ways to be admitted:

1. Directly from Secondary School

Up to 80 students will be admitted directly

from high school, on the basis of academic performance. Applicants interested in the Specialist Programme in Management must have completed OAC English I and one OAC math; applicants interested in the Specialist Programme in Management and Economics or the Specialist Programme in Management and Economic Theory must have completed OAC English I, OAC Calculus, and OAC Algebra/Geometry or Finite Math. In the first year, they will take the courses required for the programme of their choice (see the following paragraph). In order to remain in the programme students must maintain a GPA of 2.0 or higher after having completed at least 8 credits.

2. At the End of First Year

Applicants for the Specialist Programme in Management must have completed (or be in the process of completing) MGTA02 and ECOA03 or ECOA02. Applicants for the Specialist Programme in Management and Economics and the Specialist Programme in Management and Economic Theory must have completed (or be in the process of completing) MGTA02, ECOA02, and MATA28 or MATA26. Students should be aware that calculus is required in both of these programmes. The normal course to meet this requirement is MATA28. Students may also meet this requirement by taking both MATA26 (or MAT133 at St. George) and MATB41.

Students applying for admission on completion of their first year of studies will be evaluated on the basis of all their grades, including the prerequisites for admission to the Programme. In order to remain in the programme students must maintain a GPA of 2.0 or higher after having completed at least 8 credits.

3. Admission after First Year

Admission of students during second year (that is, until they have completed up to 10 full courses) will also be on the basis of all grades received. Students who have completed more than ten full courses will not normally be considered for admission to the Programme.

Students applying at the end of first year or during the second year will be considered together for a total of approximately 80 places in the three Specialist Programmes.

Subject to enrolment limits, a student admitted to any of the Programmes will have access to the full range of offerings in the discipline. Specific Programme requirements are listed below.

Specialist Programme in Management

Supervisor: TBA

This programme is designed to give students a broad exposure to all the functional areas of management. It allows students to pursue some degree of specialization in a specific area of management, or to combine studies in management and other disciplines, such as the programmes in Management and Languages described below. Calculus is not required.

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

- MGTA02, MGTB02, MGTB03, MGTB27, MGTC03, MGTC04, MGTC60
- at least 0.5 FCE of courses emphasizing management skills, chosen from MGTC36, MGTC42, MGTC54, MGTD09
- at least 0.5 FCE of courses in strategic management, chosen from MGTC11, MGTC35, MGTC38, MGTC42, MGTC44, MGTD09

NOTE: a single course may not be counted towards both requirements 2 and 3.

- ECOA02 or ECOA03; ECOB10 or STAB22 (a one-semester non-calculus introduction to quantitative methods); and 2 additional FCEs in economics, chosen from ECOB03, ECOB07, or 1 FCE of C-level economic courses
- CSCA02 or CSCA06
- Four additional full-course equivalents from courses other than MGT & ECO, to include at least one full-course equivalent from among a set of Humanities courses which emphasize writing skills. CLAA01Y, CLAA02Y, CLAB11F/S, CLAB32F/S, CLAB33F/S, DRAB03Y, DRAB04Y, DRAB06Y, DRAB07Y, ENGA11Y, ENGB07Y, ENGB08Y, ENGB10Y, ENGB11Y, ENGB14Y, ENGB15Y, ENGB20F, ENGB21S, ENGB25F/S, ENGB34F/S, FARB66Y, FREB25Y, FREB36F, FREB37S, FREB82, GERC01, GRHB01Y, GRHB04, HISB04Y, HISB06Y, HISB07Y, HUMA01Y, HUMA03Y, HUMB02Y, HUMB05, HUMB42, ITAC22F, ITAC23S, ITAC31Y, ITAC45F/S, MUSA01Y, MUSA11S,

MUSA12F/S, MUSB14F./S, PHLB01F, PHLB03F, PHLB05F, SPAB14F, SPAB15S

JOINT SPECIALIST PROGRAMME IN MANAGEMENT AND LANGUAGE Supervisor:

The Management and Economics and Humanities Divisions have cooperated to develop joint programmes in Management and French, German, Italian, or Spanish.

The Management requirements for any of these programmes is the first 5 requirements for the Specialist in Management (see above). The sixth requirement is waived.

Language requirements consist of five full-course equivalents in one language, made up of A. Basic Language, B. Business Language and C. Civilization, as follows:

FRENCH

- A. FREA10, FREB10, one full-course equivalent from FREC01, FREC02, FREC04 FREC05
- B. at least one full-course equivalent from FREB18, FREC18
- C. at least one half course from FREB22, FREB23, FREB27, FREB28
- D. An additional half course in FRE

GERMAN

- A. GERA09, GERA10, GERB19, GERB20, GERC10
- GERC11
- C. GERC01

ITALIAN

- A. ITAA01 and ITAA02 or ITAA11 and ITAA03, ITAB01 or ITAB11, ITAB03,
- B. one half course from ITAC04, ITAC05
- one half course from ITAA50, ITAB20, ITAC71

SPANISH

- A. SPAA01, SPAA02, SPAB01, SPAB04*
- B. SPAC02
- C. SPAB15 or HUMC14
- * students taking HUMC14 are not required to take SPAB04

Students must take at least 10 FCEs in Management listed as requirements 1 - 5 of the Management curriculum plus the Language requirements.

Specialist Programme in Management and Economics Supervisor: TBA

This programme is designed to give students a broad exposure to all functional areas of management as well as a solid grounding in economics. Quantitative topics are treated rigorously by means of calculus.

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

- 1. MGTA02, MGTB02, MGTB03. MGTB27, MGTC03, MGTC04, MGTC09, MGTC74, MGTC75
- 2. at least 0.5 FCE of courses emphasizing management skills, chosen from MGTC36, MGTC42, MGTC54, MGTD09
- 3. at least 0.5 FCE of courses emphasizing strategic management, chosen from MGTC11, MGTC35, MGTC38, MGTC42, MGTC44, MGTD09

NOTE: a single course may not be counted towards both requirements 2 and 3

- 4. ECOA02, ÉCOB04, ECOB08, ECOB09, and 1 FCE of C-level economics courses
- -5. MATA28 or MATA26 and MATB41
- CSCA06
- Four additional FCE's from courses other than MGT/ECO, to include at least 1 FCE from among a set of Humanities courses which emphasize writing skills.

Specialist Programme in Management and Economic Theory Supervisor: TBA

This programme is designed to prepare students for graduate work in economics while providing a firm grounding in management. Quantitative topics are treated rigorously by means of calculus.

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

- 1. MGTA02, MGTB02, MGTB03, MGTB27, MGTC03, MGTC04. MGTC09, MGTC74, MGTC75
- 2. at least 0.5 FCE of courses emphasizing management skills, chosen from MGTC36, MGTC42, MGTC54, MGTD09
- 3. at least 0.5 FCE of courses emphasizing strategic management, chosen from MGTC11, MGTC35,

MGTC38, MGTC42, MGTC44, MGTD09

NOTE: a single course may not be counted towards both requirements 2 and 3

- ECOA02, ECOB04, ECOB08, ECOB09, ECOD50, and 2 FCE chosen from ECOC11, ECOC13 and ECOC14, or 1 FCE of C-level economics courses
- 5. MATA28 or MATA26 and MATB41
- 6. CSCA06
- 7. Four additional FCEs from courses other than MGT/ECO, to include at least 1 FCE from among a set of Humanities courses which emphasize writing skills.

Careers in Accountancy

The College offers a significant number of courses which have been recognized as meeting part of the educational training of Chartered Accountants, Certified General Accountants and Certified Management Accountants. A brochure describing the various programmes and listing the recognized Scarborough College courses is available from Counselling Services (287-7550).

MGTA02Y Introduction to Management

Telephone ID #: 33510263 Introduction to the process of management (planning, organizing, controlling, and directing), the functional components of profit and nonprofit organizations (accounting, finance, marketing, personnel, etc.), and the organization's role within a broader context, including ethical and societal considerations. Exclusions: Any other MGT course (except B02 for students in programmes requiring B02).

Prerequisite: None Session: Winter Day

MGIB02Y Financial Accounting

Telephone ID #: 33520263 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. Exclusions: (MGTA01)(COMA01) Prerequisites: MGTA02 or enrollment in a programme requiring this course. Session: Winter Day

MGTB03F Management Accounting

Telephone ID #: 33520333

An introduction to management and cost accounting with an emphasis on the use of accounting information in managerial decision-making. Topics include patterns of cost behaviour, transfer pricing, budgeting and control systems.

Enrolment is limited to students registered in programmes requiring this course.

Exclusions: (MGTB01) (COMB01)

Corequisite: MGTB02

(ECOA01)

Session: Winter Day, Winter Evening

Prerequisites: ECOA02 or ECOA03

MGTB27Y Organizational Behaviour Telephone ID #: 33522763

This course is designed to introduce students to the theoretical and practical aspects of managing human behaviour in organizational settings. The course will critically assess organizational behaviour within four interrelated levels of analysis: the overall organization, the individual, groups, and linking processes. Topics covered include leadership, power, communication, stress, motivation, job satisfaction, careers, group dynamics, organizational design and organizational culture.

Enrolment is limited to students registered in programmes requiring this course.

Exclusion: (JCSB27Y)
Prerequisite: MGTA02Y

Session: Winter Day, Summer Evening

MGTC01Y Intermediate Financial Accounting

Telephone ID #: 33530163
An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation. The course builds extensively on the material in MGTB02 and, to a lesser extent, MGTB03. Potential students should review thoroughly the basic accounting model, preparation of financial statements and accounting principles prior to the start of the course.

Limited enrolment: 60. Exclusion: (COMC01)

Prerequisites: MGTB02 and MGTB03 or

(MGTB01 (COMB01)) Corequisite: MGTC06

Session: Winter Day, Winter Evening

MGTC03F Principles of Finance

Telephone ID #: 33530333
The objective of this course is to provide students with the theories and skills to make optimal corporate financial decisions.

It deals with general approaches for valuing cash flows.

Enrolment is limited to students in programmes requiring this course. Exclusions: MGTC02 (JCEC02) Prerequisites: MGTB03 (MGTB01 or COMB01), ECOB03 or ECOB04 Session: Winter Day, Winter Evening

MGTC04F Principles of Marketing

Telephone ID #: 33530433

An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The focus is on the nature and scope of marketing in a organizational and societal setting. The subjects include an examination of buyer behaviour, market segmentation and target marketing; the basic elements of the marketing mix-product, price, promotion and channel policies; marketing planning, evaluation and control.

Exclusion: (COMC04)

Prerequisites: MGTB03 or (MGTB01)

(COMB01)

Session: Winter Day, Winter Evening,

Summer Evening

MGTC05S Introduction To Marketing Management

Telephone ID #: 33530553

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: (COMC05)

Prerequisites: MGTC04 (COMC04). Session: Winter Day, Winter Evening,

Summer Evening

MGTC06S Intermediate Management Accounting

Telephone ID #: 33530653
An examination of various cost accumulation and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, and variance analysis and cost allocations.

Exclusions: (MGTB01) (COMB01)

Prerequisite: MGTB03

Session: Winter Day, Winter Evening

MGTC09S Intermediate Finance

Telephone ID #: 33530953

This course provides a detailed examination of approaches for dealing with financial decisions faced by the corporation.

Included are issues such as capital budgeting, leasing, mergers and acquisitions, and alternative financing methods.

Limited enrolment: 60

Exclusions: MGTC02 (JCEC02)
Prerequisites: MGTC03, ECOB09 or

ECOB10 (ECOB11) Session: Winter Day

MGTC10S Management Control Systems

Telephone ID #: 33531053

The course objective is to develop a thorough understanding of planning and control systems in organizations, with an emphasis on behavioural implications. Case studies will be used to evaluate control structures and processes with some attention to multinational, service and non-profit organizations.

Limited enrolment: 60. Exclusion: (COMC10)

Prerequisites: MGTB03 (MGTB01) and MGTB27 (JCSB27) and MGTC06

Session: Winter Evening

MGTC11S Management Information Systems

Telephone ID #: 33531153
This course is intended to help students understand the information systems that are a critical component of modern organizations. The course covers the technology, design, and application of data processing and information systems, with emphasis on managerial judgement and decision making.

Limited enrolment: 80

Prerequisites: MGTB03 (MGTB01 or COMB01) and MGTB27

Session: Winter Evening

MGTC15Y Income Tax

Telephone ID #: 33531563

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. Exclusion: (COMC15)

Prerequisites: Completion of at least ten full-course equivalents including MGTB02 or MGTA01 (COMA01) and MGTB03 (COMB01)

Session: Winter Evening

MGTC22F/S Personnel Administration

Telephone ID # for MGTC22F: 33532233
Telephone ID # for MGTC22S: 33532253
An introduction to the basic concepts, theories and practices of personnel management. Topics include recruitment, selection, training, developments performance appraisal, compensation and human resources planning. Affirmative action, discrimination and equal pay issues will be examined in relation to human rights legislation.

Limited Enrolment: 60. Exclusion: (COMC22)

Prerequisites: MGTB27 (JCSB27)

Session: Winter Day

MGTC25F Organizational Design

Telephone ID #: 33532533

This course considers theoretical and design aspects of modern organizations. Various theoretical perspectives will be explored that are used to explain the formal and informal structure of organizations. The course will consider public and private sector organizations and make extensive use of case study material.

Limited enrolment: 60. Exclusion: (COMC25)

Prerequisites: MGTB27Y (JCSB27Y)

Session: Winter Day

MGTC26S Comparative Organizational Behaviour

Telephone ID #: 33532653
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.

Exclusion: (COMC26)

Prerequisites: MGTB27 (JCSB27)

Session: Winter Day

MGIC30Y The Legal Environment of Business

Telephone ID #: 33533063

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

Limited enrolment: 60. Exclusion: (COMC30)

Prerequisites: Completion of at least ten full-course equivalents including MGTB02

or (MGTA01 (COMA01))

Session: Winter Day, Summer Evening

MGTC35S Management and Organization in Fiction

Telephone ID #: 33533553

Through the analysis of works of fiction dealing with managers in both private and public sector organizations, the course explores the ethical dilemmas, organizational politics and career choices that managers can expect to face. Limited enrolment; 60.

Exclusion: (COMC35)

Prerequisites: MGTB27Y (JCSB27)

Session: Winter Day

MGTC36S Management Skills

Telephone ID #: 33533653 This course examines the role of personal

management skills in the business world. Students discuss techniques for negotiation, team-building, and effective persuasion. Written, verbal, and non-verbal communication is emphasized by the extensive use of classroom demonstrations, student presentations, and role-playing. Limited enrolment: 60

Prerequisites: MGTB27 (JCSB27) and

MGTC04 (COMC04) Session: Winter Evening

MGIC38F Entrepreneurship

Telephone ID #: 33533833 This course will discuss the role of the entrepreneur in establishing and managing a small business, dealing with such problems as coordinating staff, establishing an up-to-date management information system, overseeing production, maintaining up-to-date technology, and ensuring adequate capitalization. The course will also include

a case study. Limited Enrolment: 60 Prerequisite: MGTA02, MGTB27 (JCSB27), MGTB03 or (MGTB01

(COMB01)) Session: Winter Day

MGTC42F Public Management

Telephone ID #: 33534233 The course deals with key public sector management processes (priority-setting, budgeting, human resources, crisis management) making extensive use of cases, case studies, and simulations intended to develop the student's management skills.

Limited enrolment: 60. Exclusion: (COMC42)

Prerequisites: MGTB27 (JCSB27), POLA50

(POLA01 or POLB50) or POLB61

Session: Winter Day

MGTC44S International Business Management

Telephone ID #: 33534453

This course deals with problems faced by managers of international business, such development of a global business strategy, location of operations, dealing with local cultures in marketing and human resource management, and negotiations with host governments.

Limited enrolment: 60

Prerequisites: MGTA02 and MGTB27

(JCSB27)

Session: Winter Evening

MGTC54Y Industrial Relations

Telephone ID #: 33535463 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 a collective bargaining

simulation exercise. Limited enrolment: 60.

Exclusion: (JCEC54) Prerequisites: Completion of at least ten full-course equivalents including ECOA02

or ECOA03 (ECOA01). Session: Winter Evening

MGTC60S Introduction to Operations Management

Telephone ID #: 33536053 Introduces the student to the design and control problems of systems that transform inputs into output, with emphasis on making major strategic, tactical, and operational decisions in the operations function. The course also covers several Management Science approaches used to solve the associated problems. Enrolment is limited to students registered in programmes requiring this course. Prerequisites: ECOA03, ECOB10 (a onesemester non-calculus introduction to quantitative methods) Session: Winter Day

MGTC74F Analysis for Decision-Making

Telephone ID #: 33537433 Introduction to Management Science approaches to dealing with decisionmaking situations, including discussions of problem definitions, objectives, constraints, model construction and verification, development of solutions, sensitivity analysis and interpretation. Topics include: decision analysis, mathematical programming, network

methods, dynamic programming and waiting-line models.

Exclusions: MGTC72 (COMC72) Prerequisites: MATA28, ECOB04 Corequisite: ECOB09 (ECOB12)

Session: Winter Day

MGTC75S Operations Management: A Mathematical Approach

Telephone ID #: 33537553

Introduction to the broad scope and major strategic, tactical, and operational decisions in Operations Management. Topics include: forecasting, long-range capacity planning, location and layout of facilities, aggregate planning, project management, inventory control, and production scheduling. Exclusions: MGTC73 (COMC73),

MGTC60

Prerequisite: MGTC74 Session: Winter Day

MGID08S Retail Management and Strategy

Telephone ID #: 33540853

An advanced marketing course designed to provide, through lectures and cases, a decision making perspective in retailing management. Topics include: the evolving nature of retail markets, strategic planning in retailing, profitability and productivity issues, merchandising, buying, location analysis, retail imagery and research. Limited enrolment: 60.

Exclusion: (COMD08) Prerequisites: MGTC05 (COMC05)

Session: Winter Evening

MGID09S Strategic Marketing Management

Telephone ID #: 33540953

A capstone marketing course which integrates conceptual and applied material both within marketing and between marketing and other disciplines such as finance and organizational behaviour through experience rather than instruction. Students manage "firms" in a computer simulated market.

Limited enrolment: 40

Prerequisites: MGTC05 (COMC05), MGTB27, MGTC03 (MGTC02 or JCEC02)

Session: Winter Day

MGID10F Advanced Operations Management

Telephone ID #: 33541033 This is an advanced course in Management Science and Operations Management. It examines methods for designing, evaluating, and delivering services. Topics include: location of service facilities.

allocation of service resources, capacity planning of service systems, workforce scheduling, routing problems, and the Hypercube Model. Limited enrolment: 40 Prerequisite: MGTC75

MGID11S Risk Management

Telephone ID #: 33541153

Session: Winter Day

This course analyses the use of financial instruments such as futures and options in the management of corporate risk. Although non-quantitative issues are an important part of the course, students who take it should have a strong quantitative background.

Limited Enrolment: 40

Prerequisites: MGTC09, ECOB09

(ECOB12)

Session: Winter Day

MGID50F Advanced Financial Accounting

Telephone ID #: 33545033

Consideration of accounting practice in the context of accounting theory and concepts for a number of areas including intercorporate investments, and foreign currency translation.

Limited enrolment: 60. Exclusion: (COMD50)

Prerequisites: MGTC01 (COMC01)

Session: Winter Evening

MGID55F Current Issues in Accounting Telephone ID #: 33545533

This course will deal with a number of topics in current accounting literature, with particular reference to the standard-setting process and the problem of the development of theories of, and, for accounting. Topics may also include not-for-profit and government accounting, deferred taxes and pensions, and international harmonization issues.

Limited enrolment: 60 Exclusion: (COMD55)

Prerequisites: MGTC01 (COMC01)

Session: Winter Evening

MGID60S Auditing

Telephone ID #: 33546053 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.

Exclusion: (COMD60)

Prerequisites: MGTC01 (COMC01)

Session: Winter Evening

MGTD75S Investments

Telephone ID #: 33547553
This course studies and reviews major

investment problems, in particular investment in stocks and bonds, risk and return characteristics, efficient markets, evaluation, and portfolio management.

Limited enrolment: 60. Exclusion: (JCED75)

Prerequisites: MGTC09 or MGTC02

(JCEČ02)

Session: Winter Day

MGTD80F/S Supervised Reading Course

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

Exclusions: (MGTC80) (COMC80)
Prerequisites: Permission of instructor
Session: Summer Day, Summer Evening,

Winter Day, Winter Evening

Courses Not Offered 1992-93

MGTD07S Market Research

Market Research
Exclusion: (COMD07)
Prerequisites: MGTC05
(COMC05), ECOB11 or
equivalent. Computer
background recommended.

Mathematics

Discipline Representative: P. Selick (287-7270)

The development of mathematics was induced by the inherent need to describe and analyse elements of the physical world as accurately as possible. Applied mathematics and statistics are still concerned with the building of models for use in real-world contexts. Pure mathematics is concerned with systems of axioms and the true statements or theorems

which can be deduced from them. While pure mathematics is not necessarily initially motivated by practical considerations, there are numerous instances where the solution of problems in other branches of science has been based upon previously developed pure mathematical theory. The wide applicability of both the techniques of the subject and the method of reasoning employed suggests that most students could profit by taking some courses in mathematics.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Astronomy, Mathematics and Physics

Specialist Programme in Computer Science and Mathematics

Specialist Programme in Mathematics

Specialist Programme in Mathematics and Statistics

Specialist Programme in Physical Sciences

Major Programme in Mathematical Sciences (Mathematics)

Major Programme in Mathematics The Major Programme in Mathematics is no longer offered. Students currently registered will be allowed to complete it.

MATA04Y Linear Algebra Telephone ID #: 20410463

Vector spaces: subspaces, basis, dimension. Systems of linear equations. Linear transformations: kernel, image, rank, matrix representation. Change of basis. Determinants. Eigenvalues and eigenvectors, characteristic polynomial, Cayley- Hamilton theorem, diagonalization. Introduction to inner products, Cauchy-Schwarz inequality, Gram-Schmidt orthogonalization. Exclusion: (MATA40, MATA45); MAT147, 225, 229, 247 Prerequisite: Grade 13 Calculus and one other Grade 13 Mathematics or OAC Calculus and OAC Algebra Session: Winter Day

MATA26Y Calculus

Telephone ID #: 20412663 Limits and continuity, derivatives, related rates, extremum problems, graph sketching, Newton's method, indefinite and definite integrals, numerical integration, Taylor approximation and differential equations. Students must have a calculator with memory and the exponential logarithmic and trigonometric functions and their inverses.

MATA26Y introduces the basic techniques of calculus with a strong emphasis on methods of approximation. The course will develop these ideas by the investigation of specific examples. MATA26Y is a demanding course which will equip the student for most sciences and for further work in mathematics. Exclusion: MATA28 (MATA27, MATA55); MAT130, 133, 135, 139, 149

Prerequisite: Grade 13 Calculus or OAC Calculus and one of OAC Algebra and Geometry or OAC Finite Mathematics Session: Winter Day

MATA28Y Introduction to Optimization Telephone ID #: 20412863

Rⁿ as a model space in economics, constraints, functions of one and several variables, graphs. Derivatives, partial derivatives, differentials, rules for differentiation in several variables including chain rule, higher derivatives. Exponential and logarithm, geometric series, discrete and continuous interest. One variable optimization: relative and absolute extrema, graph sketching, word problems. Matrix algebra, linear equations. Optimization in several variables. Contour maps. Lagrange multipliers. Linear programming. This course is illustrated throughout by examples drawn from Economics. Students must have a calculator with memory and the exponential and logarithmic functions. Exclusion: MATA26 (MATA27, MATA55), MATB41; MATI30, 133, 135, 139, 149 Prerequisite: OAC Calculus and one of OAC Algebra and Geometry or OAC Finite Mathematics Corequisite: ECOA02Y (ECOA01Y) Session: Winter Day NOTE: This course is intended for certain students in some Management and/or Economics Programmes. It does not satisfy the requirements for any Programme in the Physical Sciences except the Programme Computer Science for Data Management, and it may not be used as a prerequisite for any further Mathematics course. Students should consult with the Faculty in

Management and Economics or with Counselling Services to make sure that MATA28Y is appropriate to their needs.

MATB30F Geometry I

Telephone ID #: 20423033
Euclidean geometry: isometries; symmetry groups. Platonic solids, tesselations, crystallography. Projective geometry: projective spaces, homogeneous coordinates and their transformations, duality, cross-ratio, perspectivities, the fundamental theorem, conics. Models of non-Euclidean geometries. Introduction to finite geometries and coding theory.

This course is intended as an introduction to geometry. It emphasizes the interplay between geometry and algebra. It should be of interest to students in chemistry, computer science and physics.

Exclusion: (MATB25); MAT245, 324, 325 Prerequisite: MATA04 or (MATA45) Corequisite: MATB31 or (MATB44)

Session: Winter Day

MATB31F Algebra I

Telephone ID #: 20423133
Groups: definition and elementary examples, symmetry groups, matrix groups, permutation groups. Equivalence relations, cosets, conjugacy classes.
Theorems of Lagrange, Cayley, Cauchy.
Class formula and Sylow theorems. Finite abelian groups: modular arithmetic,
Euclidean algorithm, lcm, gcd, classification.
Exclusion: (MATC44, MATB44); MAT247,

Prerequisite: MATA04 or (MATA45)

Session: Winter Day

MATB32S Algebra II

Telephone ID #: 20423253
Rings: ideals, quotient rings,
homomorphisms, domains and their fields
of fractions. Euclidean domains and their
arithmetic. Polynomial rings, roots of
polynomials, extension fields. Structure
theorem for modules over a principal ideal
domain, with application to finitely
generated abelian groups and normal forms
of matrices.

Exclusion: (MATB40, MATB49) Prerequisite: MATB31F or (MATB44) Session: Winter Day

MATB41F Techniques of the Calculus of Several Variables I

Telephone ID #: 20424133 Vector algebra in Rⁿ, lines and planes in R³, complex numbers, matrices,

determinants and linear equations. Functions of several variables, partial derivatives, gradient, tangent plane, Jacobian matrix and chain rule. Taylor series. Extremal problems. Extremal problems with constraints and Lagrange multipliers. Multiple integrals, spherical and cylindrical coordinates, law of transformation of variables. Exclusion: (MATB05Y) (MATB50) and MATA28Y; MAT230, 234, 235, 239, 257 Prerequisite: MATA26Y (MATA27Y) Session: Winter Day

MATB42S Techniques of the Calculus of Several Variables II

Telephone ID #: 20424253 Fourier series. Vector fields in Rⁿ, Divergence and curl. Curves, parametric representation of curves, path and line integrals. Surfaces, parametric representations of surfaces, surface integrals. Green's, Gauss', and Stokes' theorems. Introduction to differential forms, total derivative. Exclusion: (MATB05Y)(MATB50, MATB55); MAT230, 234, 235, 239, 257 Prerequisite: MATB41 Session: Winter Day

MATB43S Introduction to Analysis

Telephone ID #: 20424353 The least upper bound principle for R, limits in R and R², 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 A26 and A04, and who wish to acquire the analytic techniques which are essential for more advanced work. There will be a fundamental emphasis on rigorous analytic proofs. Exclusion: (MATA27) (MATA55) (MATB05) (MATB50); MAT246 Prerequisite: MATA26, MATA04 or (MATA45) Corequisite: MATB42

MATB70S Introduction to Number Theory Telephone ID #: 20427053 Some properties of integers. Prime numbers. Congruences. Quadratic residues. Diophantine equations. Rational

Session: Winter Day

approximation. Three lectures per week. Exclusion: MAT315

Prerequisite: MATA04 or (MATA45)

Session: Winter Day

MATC32F Graph Theory and Algorithms for its Applications

Telephone ID#: 20433233 Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. A selection of applications to such problems as timetabling, personnel assignment, tank form scheduling, travelling salesmen, tournament scheduling, experimental design and finite geometries. Explicit algorithms and their computational complexity will be discussed whenever possible.

Exclusion: (JMCC32)

Prerequisite: MATB31 (or MATB44 or CSCB38) and at least one other B-level course in Mathematics or Computer Science

Session: Winter Day

MATC49F Galois Theory

Telephone ID #: 20434933 Fields of quotients, residue fields, finite fields, algebraic and transcendental field extensions, primitive elements, Galois extensions, review of group theory, the fundamental theorem of Galois theory, calculations and examples, the classical problems of angle trisection and construction of regular polygons. Exclusion: MAT300

Prerequisite: MATB32 or (MATB49)

Session: Winter Day

MATC51F Differential Equations I Telephone ID #: 20435133

First order equations: separable, homogeneous, linear, exact, integrating factors. Brachistochrone, exponential growth, cooling bodies. Second order equations: reducible, linear, constant coefficients, Euler equations. Wronskian, undetermined coefficients, variation of parameters. Initial value problems. Higher order linear equations. Vibrations, electric circuits, laws of Kepler and Newton. Power series solutions and method of Frobenius. Laplace transforms.

Exclusion: APM256, APM331, MAT235,

244, 267

Prerequisite: MATA04Y; MATA26Y or

(MATA55)

Corequisite: MATB41F (MATB05)

Session: Winter Day

MATC53Y Real Analysis Telephone ID #: 20435363

Sets and functions, Zorn's lemma, cardinal arithmetic, Schroder-Bernstein theorem. Lebesque measure and integration, convergence theorems, derivatives and integrals. Continuity compactness and connectedness in metric and topological spaces, Baire category. Banach spaces and the basic tools of functional analysis. Hilbert space and linear operators. Exclusion: (MATC50), (MATC55); MAT338, 350 Prerequisite: MATB32 (MATB49) and

(MATB05) MATB41F and MATB42S and MATB43 or (MATB55).

Session: Winter Day

MATC54S Differential Geometry I

Telephone ID #: 20435453 Parametric curves in space, Serret Frenet formulae, curves with specified curvature and torsion. Plane curves, isoperimetric inequality, four vertex theorem, curves of constant width. Parametric surfaces in space, Gauss Weingarten formulae, measures of curvature, Theorema Egregium. surfaces with specified first and second fundamental forms. Curves or surfaces, geodisies, parallel transport, Gauss Bonnet theorem. Geometry on surfaces of constant curvature.

Exclusion: MAT363

Prerequisite: MATA04 or (MATA45) and (MATB05) or MATB42 or (MATB55)

Corequisite: MATC51 Session: Winter Day

MATC56S Differential Equations II Telephone ID #: 20435653

Existence and uniqueness of solutions. Global qualitative analysis of solutions. Stability Theory. Poincar(lac)e-Bendixson. First order linear systems. Boundary value problems. Sturm-Liouville. Fourier series. Partial differential equations. Separation of variables. Heat, wave and Laplace equations. Bessel functions. Introduction to calculus of variations or difference equations.

Exclusion: APM256, APM331, APM346, MAT244, 435

Prerequisite: MATC51 (or MATB51)

Session: Winter Day

Courses Not Offered in 1992-93

MATB05Y Analysis Exclusion: MATA27. MATB41, MATB42; MAT257 Prerequisite: MATA04 or (MATA45) and MATA55 MATC30S Geometry II Exclusion: (MATB25): MAT245, 324, 325 Prerequisite: MATB30 MATC43S Linear and Multilinear Algebra Exclusion: (MATB45) Prerequisites: MATB32 or (MATB49) MATC60F Complex Analysis I Exclusion: MAT319, 334 Prerequisites: (MATB05) or (MATB55) or MATB42 MATC65S Complex Analysis II Exclusion: MAT319 Prerequisite: MATC60 MATC31F Combinatorics Exclusion: MAT344 Prerequisite: MATB31 (or MATB44 or CSCB38) and at

Music

Discipline Representative: Wm. R. Bowen (287-7194)

least one other B-level

Computer Science

course in Mathematics or

Music courses on the Scarborough Campus are designed both for students who intend to pursue a career in the arts and for students whose interests are more general. Students who have taken music as a subject at high school or elsewhere will find a selection of historical, theoretical, and practical courses available, while students with no previous musical background can begin musical studies here.

Most of the upper-level courses assume that the student has some ability in reading music of a simple nature, and all continuing students are encouraged and helped to acquire this skill as soon as possible. All students should consider taking advantage of the various opportunities that exist in the College for practical music making, particularly the series of Supervised Performance Courses.

Major and Minor Programmes in Music History are offered (see below). Music is also a component of the Specialist

Programme in the Arts and the Specialist Programme in Arts Administration (see pages 56 and 23).

Major Programme in Music History Supervisor: Wm. R. Bowen (287-7194) Students are required to complete a total of seven full-course equivalents in Music and related areas.

The seven courses will be made up as follows:

- 1 MUSA01Y Introduction to Music MUSB07F Materials of Music I MUSC21S Materials of Music II Students excluded from MUSB07F must take another half-course equivalent in Music in consultation with the Supervisor.
- 2 Four full-course equivalents chosen from MUS courses. Two full-course equivalents must be selected from MUSB01-B06; either MUSB03 or MUSB04 is required. At least one and one-half courses in this section should be at the C or D level. In exceptional circumstances, students may substitute one or more courses (HMU or TMU) offered by the Faculty of Music on the St. George Campus; music courses (MUS) offered through the Faculty of Arts and Science do not qualify. Permission of the Supervisor is required.
- One additional full-course equivalent in Supervised Performance [MUSB20/21/22/23/25/26H]. Students may count a maximum of 1.5 full-course equivalents in performance toward the requirements of the Major Programme.

Minor Programme in Music History Supervisor: Wm. R. Bowen (287-7194) Students are required to complete a total of four full-course equivalents in Music. The four courses will be made up as follows:

- MUSA01Y Introduction to Music MUSB07F Materials of Music I Students excluded from MUSB07F must take another half-course equivalent in Music in consultation with the Supervisor.
- One and one half full-course equivalents from MUSB01-B06
- 3 One full-course equivalent from the C or D level

MUSA01Y Introduction to Music

Telephone ID #: 22610163 A study of the basic materials, principles of design, and cultural significance of representative works of Western music from the Middle Ages to the present day.

Through examples drawn from a variety of periods, students are introduced to ideas of musical style and design. These concepts are of great help in listening to and understanding works by composers as different from each other as Josquin, Bach, Beethoven, Stravinsky and Duke Ellington. We also look at the ways in which culture and society influence what composers write. Through intelligent, directed listening and through discussion and writing, students learn how to approach each piece of music on its own terms and, at the same time, how to communicate their ideas to others. No previous musical training is required, but students with some musical experience should also find this introduction valuable.

Upper level courses, for which MUSA01Y is the prerequisite, assume that the student has some ability in reading music. Students who wish to continue to such upper level courses but who need additional preparation in rudiments are encouraged to take the optional tutorial given in the second term as a supplement to MUSA01Y.

Exclusion: MUSA10F and MUSA20S or MUSA10F and MUSB30S; MUS100, HMU121

Session: Winter Day Wm. R. Bowen

Offered 1993/94 and 1994/95

MUSA11F/S Listening to Music

Telephone ID # for MUSA11F: 22611133 Telephone ID # for MUSA11S: 22611153 An introduction to the language of music for non- musicians.

In the noise-polluted environment in which we live, surrounded by sounds both musical and non- musical, listening to music has become an art that needs to be consciously cultivated. This course is an introduction to the rewarding art of intelligent listening. Through examples from a variety of musical sources, including non-Western and popular music as well as "classical" music, students are introduced to some of the mysteries of musical composition and given a deeper understanding of how music works. Throughout the course the emphasis is on what may be heard in a piece of music and

theoretical concepts are kept to a minimum. No previous musical experience is required. Exclusion: MUSA01 (MUSA10/A20/B30), MUS100

Session: Summer Evening and Winter Day Wm. R. Bowen and J. Mayo
Not offered 1993/94

MUSA12F Music of the World's Peoples Telephone ID # for MUSA12F: 22611233 An introduction to the musical cultures of the world's peoples.

In our multi-cultural society, we are constantly exposed to sounds which do not follow the familiar patterns of musical expression. Accordingly, it is the purpose of this course to help the student to appreciate the music of other cultures and to recognize the variety and richness of musical invention in the world. Course materials will include selected examples from Africa, China, India, Japan, the Middle East and South America. In addition, the student will be introduced to Western Folk music and to the music of the native peoples of North America. Lectures will be devoted to a non-technical discussion of music, musical instruments and the place of music in society. No previous musical experience is required.

Exclusion: MUS200 Session: Summer Evening A. Sanger

Not offered 1993/94

MUSB01S Music of the Twentieth Century Telephone ID #: 22620153

Tracing the various trends of music in the present century from Debussy to the most recent electronic and multi-media presentations.

Selected compositions of Debussy, Schoenberg, and Stravinsky are analysed in detail to demonstrate the nature of the revolution which took place in music during the early years of the century. The course continues with a survey of the most significant composers and techniques of the succeeding seventy years. Topics to be discussed include the continuing commitment of some composers to tonality; developments in twelve-tone serialism; the influence of jazz; electronic music; the emergence of new aesthetic attitudes.

Exclusion: HMU221

Prerequisite: MUSA01 (MUSB30S)

Session: Winter Day

J. Mayo

Not offered 1993/94 or 1994/95

MUSB03F Music in the Middle Ages

Telephone ID #: 22620333

A study of music in the period between the birth of Christ and the early 15th century.

This course is a survey of the major forms of music, both sacred and secular, found in Europe during the Middle Ages. The history of chant in the Roman Church, the secular song of the troubadours and trouv`eres, and the rise of polyphony are included. In addition, the aesthetic, philosophical, and sociological context for medieval music will be considered. Exclusion: HMU222

Prerequisite: MUSA01 (MUSB30S)

Session: Winter Day Wm. R. Bowen

Not offered 1993/94 or 1994/95

MUSB07F Materials of Music I

Telephone ID #: 22620733
The basic materials of music from the Middle Ages to the present.

A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject will be emphasized, providing a secure foundation for the development of the student's "inner ear" — that is, the ability to hear mentally what is written and to write down what the inner ear perceives. Exclusion: Royal Conservatory Gr III harmony or equivalent; MUSB17 Session: Winter Day J. Mayo Offered 1993/94 and 1994/95

MUSB14S Jazz

Telephone ID #: 22621453

A history of jazz from its African and European roots to present day experiments.

The history of jazz styles approached through an examination of the work of representative performers. Social questions and the relationship between jazz and "classical" music will be discussed. Class participation may include performance by exceptionally well qualified students. No previous musical experience is required. Session: Winter Day J. Mayo Not offered 1993/94

MUSC05F The Symphony
Telephone ID #: 22630533
A study of the music written in the

A study of the music written in the symphonic form from the Classic period until the present day.

The changing concept of the symphony investigated through close study

of representative examples of the genre. Prerequisite: MUSA01 (MUSB30S) Session: Winter Day J. Mayo Not offered 1993/94 or 1994/95

MUSC11S Beethoven

Telephone ID #: 22631153
A study of selected symphonies, quartets and sonatas by Ludwig van Beethoven. The course traces the changes in the composer's style and technique from his development under the influence of the Classic masters to his contribution to the new dramatic expression of the nineteenth century. Prerequisite: MUSA01 (MUSB30S) Session: Winter Day J. Mayo
Not offered 1993/94 or 1994/95

MUSC21S Materials of Music II

Telephone ID #: 22632153 A continuation of MUSB07F Exclusion: (MUSB24, MUSC04) Prerequisite: MUSB07 (MUSB17) or Royal Conservatory Gr III harmony or equivalent. Session: Winter Day A. Rapoport Offered 1993/94 and 1994/95

Performance Courses

The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should preregister but will not be admitted to the course unless granted permission of the Instructor during the first week of classes.

MUSB20H Supervised Performance I-Chorus

Telephone ID #: 22622043
The practical study of a wide range of music from the choral repertoire.

Students work as members of Scarborough College Chorus, a chamber choir which performs compositions drawn from the literature of the Renaissance to the present day. The choir gives public performances in each term.

In addition, credit students may be required to prepare works in conjunction with members of the instrumental performance programme. Previous experience is desirable but not essential. The course meets 2 hours per week for rehearsal with MUSB21H and MUSB25H. Exclusion: (MUSB09) and (MUSB10) Prerequisite or Corequisite: Any A-level

course in Music or MUSB14F/S Session: Winter Day J. Mayo Offered 1993/94 and 1994/95

MUSB21H Supervised Performance II - Chorus

Telephone ID #: 22622143
A continuation of MUSB20H.
Exclusion: (MUSB10)
Prerequisite: (MUSB09) or MUSB20
Session: Winter Day
J. Mayo

Offered 1993/94 and 1994/95

MUSB22H Supervised Performance I -Instrumental

Telephone ID #: 22622243 The practical study of ensemble performance.

Students work in an ensemble and prepare works for public performance within the College. The emphasis of the course is on the particular problems of ensemble performance and it assumes a basic competence on the chosen instrument.

Each group will meet for 2 hours per week for rehearsal with MUSB23H and MUSB26H.
Exclusion: (MUSB09/B10)
Prerequisite or Corequisite: Any A-level course in Music or MUSB14F/S Session: Winter Day
C. Walter

MUSB23H Supervised Performance II - Instrumental

Offered 1993/94 and 1994/95

Telephone ID #: 22622343 A continuation of MUSB22H. Exclusion: (MUSB10) Prerequisite: MUSB22 or (MUSB09) Session: Winter Day C. Walter Offered 1993/94 and 1994/95

MUSB25H Supervised Performance III - Chorus

Telephone ID #: 22622543 A continuation of MUSB21.

Offered 1993/94 and 1994/95

Students in this course meet for three hours per week, two hours with students of MUSB20H and MUSB21H and an hour in a seminar. In this seminar the elements of choral directing and conducting are introduced.

Prerequisite: MUSB21
Session: Winter Day
J. Mayo

MUSB26H Supervised Performance III - Instrumental

Telephone ID #: 22622643 A continuation of MUSB23H.

Students in this course meet for three hours per week, two hours with students of MUSB22H and MUSB23H and an hour in a seminar. In this seminar the elements of instrumental directing and conducting are introduced.

Prerequisite: MUSB23

Session: Winter Day

Session: Winter Day
C. Walter

Offered 1993/94 and 1994/95

MUSD01F MUSD02S

MUSD03Y Independent Studies

A directed reading course for students who have demonstrated a high level of academic

maturity and competence.

Qualified students will investigate a

field of musical scholarship which is of common interest to both student and supervisor and which is not available for study otherwise. Students meet regularly with the supervisor for consultation and prepare a 5,000-7,500 word paper for a term course or a 10,000-15,000 word paper for a year course. Students who have demonstrated exceptional ability in MUSB07F and MUSC21S may in certain circumstances pursue a course of composition, producing a portfolio of original works in place of the essay. Prerequisite: At least two full-course equivalents in music at the B- and C-level; permission of instructor to be obtained by the last date of classes in the previous term. Session: Winter Day Co-ordinator: Wm. R. Bowen

GRKB23F Modern Greek Music
Telephone ID #: 07222333
A new course offered this year. For course description, see page 44.
Session: Winter Day
S.Mittler
Not offered 1993/94
Offered 1994/95

Courses Not Offered in 1992-93

Offered 1993/94 and 1994/95

MUSB02F

Music of the Classic Period Exclusion: HMU122 Prerequisite: MUSA01 (MUSB30S) Not offered 1993/94 Offered 1994/95

MUSB04F Music of the Renaissance Exclusion: HMU222 Prerequisite: MUSA01Y (MUSB30S) Offered 1993/94 Not offered 1994/95 MUSB05S Music of the Baroque Era Exclusion: HMU122 Prerequisite: MUSA01Y (MUSB30S) Offered 1993/94 Not offered 1994/95 MUSB06S Music of the Romantic Period Exclusion: HMU221 Prerequisite: MUSA01 (MUSB30S) Not offered 1993/94 Offered 1994/95 MUSC09F/S Canadian Music Prerequisite: MUSA01 (MUSB30S) Not offered 1993/94 Offered 1994/95 MUSC14S Stravinsky Prerequisite: MUSA01Y (MUSB30S) Offered 1993/94 Not offered 1994/95

Neuroscience

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques borrowed from constituent disciplines like anatomy, physiology, biochemistry, psychology and pharmacology are being used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions in the clinical aspects of neurodysfunction and behaviour.

The Major and Specialist Programmes in Neuroscience are administered jointly by Psychology and Biology and primarily include courses from these disciplines. They have been designed for students who are interested in pursuing graduate or medical training in Neuroscience. The Specialist Programme has a heavy laboratory component and students are encouraged to become actively involved in ongoing research. The subdisciplines represented at Scarborough Campus include behavioural neuroscience, neuroanatomy, neurophysiology, neurochemistry and cell biology (applied to the nervous system).

Specialist Programme in Neuroscience

Supervisor: N.W. Milgram (Office: S513) Note: Entry into this Programme is limited to a maximum of 25 students each year and will be based on grades obtained in PSYA01Y, BIOA03Y, and CHMA02Y.

Balloting for acceptance into the Programme will occur in the Spring term. Acceptance at the end of second year is possible depending on availability of space. Students should consult the Supervisor of Studies.

The Programme requires completion of 14.5 full-course equivalents. Relevant Neuroscience courses from the St. George or Erindale campuses may only be used to satisfy a requirement with the permission of the Supervisor of Studies.

1 All of the following 9.5 full-course equivalents:

Introduction to Biology BİOA03Y PSYA01Y Introduction to Psychology General Chemistry CHMA02Y PSYB07F/S Data Analysis in Psychology

(BIOB28F/S) (Elementary Statistics for Biologists)

STAB22F/S Statistics BIOB17Y Animal Physiology Brain Mechanisms and PSYB60F/S Behaviour: I

Human Brain and PSYB65F/S Behaviour

Brain Mechanisms and PSYC61F/S Behaviour: II PSYC63Y Physiological

Psychology Laboratory Psychobiology of PSYC64F/S Sensory Systems and

Their Development Organic Chemistry I CHMB44Y

Introductory BIOC35Y Biochemistry 2 0.5 full-course equivalent from the

following: MATA26Y Calculus Principles of Physics PHYA01Y Concepts of Physics PHYA02Y How Computers are Used CSCA02F/S (How Computers are (CSCA04F/S) Used)

Computer Basics CSCA06F/S (CSCA56F/S) (Computer Programming)

CSCA57F/S Introduction to Scientific Computing

CSCA58F/S Introduction to Computing

3 At least 1.5 full-course equivalents from the following with no more than 0.5 full-course equivalent from the supervised study courses:

PSYD60F/S Current Topics in Physiological Psychology

Neuroplasticity: PSYD62F/S Mechanisms and

Function Psychobiology of Aging PSYD67F/S

BIOC31F/S Invertebrate Neurobiology

NROC90/ Supervised Study in C93F/S/H Neuroscience

NROD98Y Thesis in Neuroscience 4 At least 1.0 full-course equivalent from

the following: Psychological Research PSYB01F/S Laboratory

Experimental Design in PSYC08F/S Psychology

Learning Laboratory PSYC42F/S Experimental PSYC58F/S Psychology

Microcomputer Laboratory Laboratory in

BIOC36H Biochemistry Vertebrate Histology: BIOB25F/S

Cells and Tissues

Molecular Biology of BIOD19F/S the Gene

5 At least 1.0 full-course equivalent from the following:

BIOB05Y Genetics Developmental Biology BIOB23Y BIOB32F/S Vertebrate

Morphogenesis Cell Biology BIOC20Y

General Biology of BIOC33F/S Vertebrates BIOC52F/S Animal Behaviour

Evolutionary Biology BIOC60F/S Theoretical Foundations BIOC70F/S of Biology I

Molecular and Classical BIOD18S Cytogenetics

Evolutionary Genetics BIOD61S 6 At least 1.0 full-course equivalent from

the following: Abnormal Psychology

PSYB32F/S Sensation and PSYB50F/S Perception

PSYB51F/S Perception and Cognition

Memory and Cognition PSYB57F/S History of Psychology PSYC85F/S

(Current Topics in (PSYD40F/S) Animal Learning)

(PSYD41F/S) (Research in Operant Conditioning)

PLID55F/S Disorders of Speech and Language

7 Students planning on graduate work in Neuroscience are advised that undergraduate courses in Physics and Calculus may be required for that graduate programme.

Major Programme in Neuroscience Supervisor: N.W. Milgram (Office: \$513) The programme requires seven full-course equivalents. Students who might consider completing a four year degree are encouraged to include in the electives below the following courses: CHMB44Y (CHMB05Y) and BIOC35Y so that they would be eligible for the Specialist Programme.

The following outline indicates the required courses and the most advantageous sequencing for the Major Programme in Neuroscience.

1 To be completed in the first year of fulltime study (or equivalent):

PSYA01Y Introduction to Psychology BIOA03Y Introductory Biology CHMA02Y General Chemistry

2 To be completed by the end of the second year of full-time study (or equivalent):

PSYB07F/S Data Analysis in Psychology

STAB22F/S Statistics

PSYB60F/S Brain Mechanisms and Behaviour I

PSYB65F/S Human Brain and Behaviour

PSYC61F/S Brain Mechanisms and Behaviour II

BIOB17Y Animal Physiology 3 To be completed by the third year of fulltime study (or equivalent):

PSYC64F/S Psychobiology of Sensory Systems and

Their Development One of the following courses:

Current Topics in PSYD60F/S Physiological Psychology

PSYD62F/S Neuroplasticity: Mechanisms and

Function PSYD67F/S Psychobiology of Aging BIOC31F/S Invertebrate

Neurobiology

NROC90F/S/H NROC93F/S/H Supervised Study in Neuroscience

A reading or research project. These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must demonstrate that his or her background is adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will culminate in a written submission. These courses cannot be repeated for credit.

Prerequisite: Three full-course equivalents in Psychology or Biology; permission of instructor.

Exclusions for NROC90: PSYC90, BIOD01 Exclusions for NROC93: PSYC93, BIOD01

Supervision by a faculty member

Session: Winter Day

NROD98Y Thesis in Neuroscience

This course is intended to offer to qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in the Neuroscience areas (Psychology or Biology). The project will culminate in a written report in the form of a thesis and a defence of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others and to discuss the results of their investigation.

Students will meet as a group with the coordinator as well as individually with the supervisor.

Prerequisite: Satisfactory completion of fifteen full-course equivalents in any discipline, but including PSYB07; one laboratory half-course in Psychology or Biology, consent of a faculty member in Psychology or Biology to serve as research supervisor.

Exclusions: PSYD98, BIOD02 Session: Winter Day

Supervision by a faculty member

Philosophy

Discipline Representative: W.E. Seager (287-7151)

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.

PHLA01Y is recommended as an introduction to the field of philosophy in general. It is required for all Majors and Specialists in Philosophy. B-level courses are more specialized in content, but they are open to anyone interested in the topic of the course. All C-level Philosophy courses carry at least a half course pre-requisite in

Philosophy.

Course offerings in Philosophy form a two- or three-year cycle: courses not offered in one academic year will normally be available in one of the following years. PHLA01, PHLB01, PHLB20, PHLB50, and PHLB60 are normally 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 whose first half is at the B-level, and whose second half is at the C-level. Courses in a sequence are usually scheduled in the same time slot. The B- series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty, and this arrangement is followed at the C-level (except for seminar courses). Note to Majors and Specialists:

Many of the philosophy courses can be offered only on a two- or three-year rotation. The courses listed as Not Offered in 1992-93 are likely to be offered the following year, and some of this year's offerings will be dropped to make room for them. You should try to plan your programme a year or two ahead to be sure of getting the courses you want. See the Discipline Representative for further information. Wednesday 4-6 p.m. is reserved for the Philosophy Club, special lectures and other events. Interested students and staff should try to leave these hours free.

Cognate Courses

Philosophy students should seriously consider the advantages of studying a language, especially French, German, Greek, or Latin. A sequence of language courses will give students access to much philosophical thought in its original language and to many secondary sources not available in English.

There are a variety of courses in Classics, English, Fine Art, History, and Humanities which will help to supplement the Programmes of many students. In particular, students should consider the following courses: HUMA01Y, Prologue; HISA01Y, European World; ASTA03Y, Introduction to Astronomy; BIOB01Y, Introduction to the Biological Sciences; such courses provide important intellectual and historical background for the study of Philosophy.

Specialist Programme in Philosophy

Supervisor: W.E. Seager (287-7151) Students must complete at least fourteen full-course equivalents including:

1 PHLA01Y Fundamental Questions of Philosophy
PHLB01F/S Ethics

PHLB20F/S Belief, Knowledge, and Truth

PHLB50F/S Symbolic Logic
PHLB60F/S Existence and Reality

- 2 Four half-courses from PHLB40F/S to PHLB48F/S and PHLC40F/S to PHLC48F/S
- 3 Four full-course equivalents in C-level or D-level Philosophy courses.

4 Three additional full-course equivalents in Philosophy courses.

5 Two full-course equivalents from cognate courses in other disciplines agreed upon after consultation with the Supervisor. Students are encouraged to follow a sequence of language courses in fulfillment of this requirement

Major Programme in Philosophy Supervisor: W.E. Seager (287-7151) Students must complete at least seven fullcourse equivalents in Philosophy including:

1 PHLA01Y Fundamental Questions of Philosophy

2 Two of the following half-courses:
PHLB01F/S Ethics
PHLB20F/S Belief, Knowledge and
Truth
PHLB50F/S Symbolic Logic
PHLB60F/S Existence and Reality

3 Two half-courses from PHLB40F/S to PHLB48F/S and PHLC40F/S to PHLC48F/S

4 Two full-course equivalents in C-level or D-level Philosophy courses.

Two additional full-course equivalents in Philosophy courses.

NOTE: In certain cases students combining a Major Programme in Philosophy with a Programme in another discipline may elect to modify the Major Programme. Students electing modifications must have the approval of the Supervisor.

PHIA01Y Fundamental Questions of Philosophy

Telephone ID #: 24510163
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?

Some of the world's major philosophers will be studied with a view to answering these and other basic questions which have confronted us throughout history.

The course will be divided into the following lecture sections: L01, L02, L03, L30. The problems addressed are substantially the same in each section, though the readings and approach may vary from section to section, depending on the instructor.

Session: Winter Day (L30 Winter Evening) Staff

Offered every year

PHLB01F Ethics I

Telephone ID #: 24520133
A study of philosophical problems and postures in ethics, such as the relativity of values, the justification of morality, moral skepticism, ethical egoism, utilitarianism, deontologism.

Exclusion: PHL275, 276
Session: Winter Day

H. Sobel Offered 1994-95

PHLB05F Social Issues

Telephone ID #: 24520533
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. Exclusion: PHL381 Session: Winter Day TBA Offered 1994-95

PHLB10F Political Philosophy & ...
Telephone ID #: 24521033

A study of the philosophical problems of the state and society.

Topics may include: the individual in society, forms of power and coercion, philosophies of political justification of consent.

Exclusion: PHL265 Session: Winter Day D. Cook Offered 1994-95

PHLB13F Philosophy and Feminism

Telephone ID #: 24521333
Study and discussion of a variety of issues in contemporary feminist philosophy, such as: questions of inclusion and exclusion in feminist theory (race, class, sexual orientation, disability, etc.); the masculinization of the rational; causes of women's oppression; epistemological questions, questions of methodology. Session: Winter Day L. Lange
Offered every year

PHLB20F Belief, Knowledge, and Truth Telephone ID #: 24522033

An examination of such questions as certainty, the problem of skepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.

Exclusion: PHL230
Session: Winter Day
TBA
Offered every year

PHLB40F Plato and his Predecessors I

Telephone ID #: 24524033
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.

Texts: Wheelwright, The Presocratics and Plato's Gorgias, Apology, Crito and Meno.

Session: Winter Day G. Nagel Offered 1994-95

PHLB42S Aristotle I

Telephone ID #: 24524233

A study of central themes in the philosophy of Aristotle.

After a basic outline of Aristotle's physics, we will discuss his ethics and his theory of art.

Texts: Nichomachean Ethics and Poetics

Exclusions: CLA200, 303 Session: Winter Day G. Nagel Offered 1994-95

PHLB50F Symbolic Logic I

Telephone ID #: 24525033 An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures. The text is D. Kalish, R. Montague and G. Mar, Logic: Techniques of Formal Reasoning. Exclusion: (JMPB50), PHL245 Session: Winter Evening H. Sobel Offered every year

PHLB60S Metaphysics

Telephone ID #: 24526053 A consideration of problems in metaphysics.

A more detailed description will be available in the Spring of 1992. Exclusion: PHL231 Session: Winter Day TBA Offered every year

PHLB70S Philosophy of Science Telephone ID #: 24527053

A study of philosophical questions raised by the natural sciences.

We shall discuss: alternative conceptions of theory structure; the role of scientific methodology in exploring and predicting phenomena; and the rationality and progress of science.

Exclusion: (BJPC70F)(PHLB71), PHL355,

BIOC70F
Prerequisite: One course or half-course in Philosophy or in the Division of Science. Session: Winter Day
W. Seager
Offered 1994-95

PHLB81S Theories of Mind Telephone ID #: 24528153

An examination of questions concerning

the nature of mind and thinking.

Traditionally, the mind has been conceived as a mysterious component of human beings, existing in relative independence from the conditions of physical life. Modern research into the structure and function of the brain have thrown doubts on this view, and work in computer science suggests that minds and thinking can even be attributed to machines.

We will examine the nature of the mind, and such questions as what thinking is, and whether or not machines can have a mind.

Exclusions: PHL240, 242
Session: Winter Evening
S. Sedivy
Offered every year

PHLC01S Ethics II

Telephone ID #: 24530153

Major twentieth-century ethical theories. Topics studied may include, for example, G.E. Moore's non-naturalism, W.D. Ross' intuitionism, J.L. Mackie's moral skepticism, and R.M. Hare's universal prescriptivism.

Exclusion: (PHLC02), PHL375

Session: Winter Day H. Sobel Offered 1994-95

PHLC46F Philosophy of the Early Modern

Telephone ID #: 24534633

Philosophy in the eighteenth century.

The rapid political and economic changes of the early modern period, the abandonment of classical ideas in the arts, and the progress of science all combine to force eighteenth-century thinkers to abandon the seventeenth-century search for a stable rational order. In its place they put criticism and naturalism: the assessment of constantly changing ideas, and the accommodation of man to a world of change. This course will be a survey of the main thinkers of the period. Exclusion: (PHLB47), PHL210 Prerequisite: One full-course equivalent or half-course in Philosophy Session: Winter Day W. Seager Offered 1994-95

PHLC48S Philosophy in the Later Modern

Telephone ID #: 24534853 A continuation of PHLB48.

We will continue the discussion of Hegel, Nietzsche and Freud, and include Schopenhauer and Wittgenstein. Beginning with their thought about art, religion and philosophy, we go on to such topics as life, death, suffering and joy. Session: Winter Day G. Nagel
Offered 1994-95

PHLC51S Symbolic Logic II Telephone ID #: 24535153 A continuation of PHLB50.

The natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to "extensional" terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The text is D. Kalish, R. Montague and G. Mar, Logic: Techniques of Formal Reasoning.

Exclusion: (JMPC51)
Prerequisite: (JMPB50)PHLB50

Session: Winter Evening

J.H. Sobel

PHLC83F Seminar in Philosophy: Emotions

Telephone ID #: 24538333
A study principally of attempts by Spinoza and Freud to construct a theory of emotions, but some readings from contemporary authors. We will consider whether the emotions can and should be brought under rational controls, whether a person is always the best judge of her or his own emotions, and whether it makes sense to regard certain emotions (e.g. pity) as good and others (e.g. contempt) as bad.

Prerequisite: Two B-level half-courses in Philosophy Session: Winter Day G. Nagel

PHLC85S Seminar in Philosophy: Feminism

Telephone ID #: 24538553
Selected themes in the philosophical tradition in dialogue with central issues in contemporary feminist theory. These may include: critical discussion of themes from Plato to Freud which have been used to justify the subordination of women; theories of how gendered individuals are created; feminist conceptions of self,

autonomy, ethics, or the state.

Exclusion: PHL267

Prerequisite: Two B-level half-courses in

Philosophy.

Session: Winter Day

L. Lange

PHLC87F Seminar in Philosophy: Topics in Philosophy and Literature

Telephone ID #: 24538733 A detailed description of this course will be

available in Spring 1992 Session: Winter Day

W. Freeman-Sobel

PHLC898 Seminar in Philosophy: Contemporary Analytic Philosophy

Telephone ID #: 24538953 An examination of contemporary developments in theories of mind,

meaning, and truth.

Contemporary issues will be set up by tracing their development; after a brief look at classical angloanalytic views, we will consider the diagnostic work of Wittgenstein, Sellars, Goodman, and Ryle in depth. Current theories will be examined in terms of how they follow through and build on the lessons advanced by Wittgenstein et al. Our main concern will be the opposition between internalism/externalism and realism/antirealism in current understanding of mind and meaning.

Prerequisite: Two B-level half-courses in Philosophy Session: Winter Day

PHLC928 Seminar in Philosophy: Political Philosophy in the Twentieth Century

Telephone ID #: 24539253 An examination of some central philosophical problems of contemporary political philosophy.

A more detailed description of this course will be available later.
Prerequisite: Two B-level half-courses in Philosophy.
Session: Winter Day

D. Cook

S. Sedivy

PHLC93F Seminar in Philosophy: Friendship and Personal Identity

Telephone ID #: 24539333

The topic of this course will be known in the Spring of 1992.

Session: Winter Day W. Freeman-Sobel

Telephone ID #: 24541063 An opportunity for you to engage in philosophical research and to write a major philosophical essay on a topic approved by

the faculty in Philosophy.

It is your responsibility to choose a topic and to submit it, together with a proposed working outline and preliminary bibliography, to the Programme Supervisor before the end of the second week of the fall term (ideally, before the end of the previous spring term). If the topic is approved you will consult with relevant faculty members during your work on the thesis.

In the spring term, and before submitting the completed thesis for evaluation, you will present a seminar report on your work to fellow students and staff. The seminar must be held prior to the final two weeks of classes, and you are responsible for setting a date for it in consultation with the Programme Supervisor.

The thesis will be evaluated by at least two philosophy faculty members. Prerequisite: You should be completing the last year of a four year (twenty course) degree, and have at least six full-course equivalents in philosophy, at least two at the C-level.

Session: Winter Day Staff

PHLD95F/S PHLD96F/S PHLD97F/S PHLD98F/S

PHLD99Y Independent Studies

These courses are designed for students who wish to engage in advanced-level work on a well-defined topic. Hence, when requesting permission of the Programme Supervisor, students will be required to provide a written 200-300-word proposal which must include: a rationale for including the course in his/her programme of study, a clear indication of what he/she expects to achieve in the course, and a tentative bibliography. Students who require assistance should consult with the Programme Supervisor. Note: Independent studies courses are normally open to Majors and Specialists in Philosophy during their final five full courses of study. Application should be made to the Programme Supervisor, preferably in the preceding term, stating the topic to be pursued in a description of about one page. The Supervisor will arrange to have the study directed by an appropriate member of faculty.

Prerequisite: At least 3 full-course equivalents in Philosophy including at least one at the C-level; permission of Supervisor. Exclusion: (PHLC95-C99) Session: Winter Day

Courses Not Offered in 1992-93

Staff

0043001.0101.	
PHLB03F/S	Philosophy and Art
PHLB11F/S	Philosophy of Law
PHLB12F/S	Marx and Marxism
	Exclusions: PHL216, 318
PHLB15F/S	Philosophy of Education
	Exclusion: PHL315
PHLB17F/S	Anarchism
PHLB22F/S	Business Ethics
PHLB30F/S	Existentialism
Induction	Exclusions: PHL220, 321
PHLB46F/S	Philosophy of the Early
I II DD TOIL	Modern Age I
PHLB48F/S	Philosophy of the Late
1112210110	Modern Age I
PHLB53F/S	The Art of Thinking
IHEDSSIA	Exclusion: PHL247
PHLB61F/S	Philosophy of Religion
IIIDDUXIO	Exclusions: PHL235, 236
PHLB80F/S	Philosophy of Language
PHLC05F/S	Biomedical Ethics
I II D C USI / D	Prerequisite: PHLB05 or
	PHLB01
PHLC40F/S	Plato II
I II DC40175	Prerequisite: At least one
	half-course in Philosophy.
PHLC42F/S	Aristotle II
THECTERS	Prerequisite: At least one
	half-course in Philosophy.
PHLC52F/S	Modal Logic and
THEODETIS	Probability Probability
	Exclusion: PHL246
	Prerequisite: PHLB50
PHLC53F/S	Games and Decision
I II LC 33175	Prerequisite: one full-
	course equivalent, (not
	necessarily in Philosophy)
PHLC54F/S	Metalogic
Indestrib	Prerequisite: PHLB50
PHLC61F/S	Philosophy of Religion II
Indon	Exclusion: PHL246
	Prerequisite: PHLB61
BIOC70F/S	Theoretical Foundations of
DIOCIUL	Biology I
	Exclusion: PHLB70
	(PHLB71) (BJPC70)
	Prerequisite: BIOA03
BIOC71F/S	Theoretical Foundations of
22001210	Biology II
	Exclusion: (PHLC71)
	(BJPC71)
	Prerequisite: BIOC70
	(DIDOSO)

(BJPC70)

Physical Sciences Scarborough

Physical Sciences Scarborough is a closely integrated group of specialist programmes emphasizing close coordination among traditional subject areas to educate students with an integrated view of science. Admission to the Physical Sciences Scarborough programme takes place in first year.

The following thirteen programmes lie within the Physical Sciences Scarborough Astronomy, Mathematics and Physics Chemistry Chemistry and Biochemistry Computer Science Computer Science and Mathematics Computer Science and Physics Computer Science and Statistics Co-op Computer Science and Physical Science Environmental Chemistry Mathematics Mathematics and Statistics Physical Sciences Terrain and Environmental Earth Sciences

Most programmes cover at least two cognate disciplines, and as a result 14 to 17 courses must be specified in a 20 course programme. Introductory courses in Physics and Calculus form a basis for all programmes, and it is intended that all programme students take these courses together. The choice of other introductory courses depends on the individual programme, ranging from the mathematically oriented programmes to the environmental science ones. A special first year programme committee will have overall responsibility for the introductory courses, including coordination and workload balancing so that students are not overwhelmed by the transition to University. The progress of students across their Physical Sciences courses will be monitored throughout the year, and counselling will be provided as appropriate.

Students from the various programmes in higher years will take common courses with students in the same year, so that the cohort will retain a common identification. This will provide significant benefits for the students, particularly through encouraging communication across the disciplines involved. Common courses in

the final year will serve to integrate the knowledge gained.

Early Teacher Project The Early Teacher Project is designed to produce future high school teachers of Science and Mathematics. It has been developed in cooperation with the Faculty of Education, University of Toronto. The Physical Sciences Scarborough programmes are designed to lead to Honours Specialist Ontario Teacher Certification in one or more subjects. To participate students must continue to be registered in a Physical Sciences Scarborough Programme and participate in an orientation session in second year. Subsequently these students will work with experienced teachers in classrooms of primary/secondary schools in the third and fourth years. There will also be a workshop/seminar component organized jointly by Scarborough College

The Early Teacher Project will count for academic credit (though not as part of the 20 course requirement of a degree). Successful completion of the Early Teacher Project, together with a Physical Sciences Scarborough Specialist Programme with a 2.5 GPA standing in the best fifteen full course equivalents will guarantee admission to the Faculty of Education for at least thirty

Specialist Programme in Astronomy, Mathematics and Physics Supervisors: C. C. Dyer, M. J. G. Lee

and the Faculty of Education.

students each year.

This programme requires 16 full-course equivalents as listed below. The programme provides a good grounding in the main areas of astronomy, mathematics and physics. It is intended for students who may wish to pursue a career in teaching or to acquire a broad understanding in these subjects before undertaking a career in government or industry.

First year: ASTA03Y Introduction to Astronomy CSCA57S Introduction to Scientific Computing MATA04Y Linear Algebra MATA26Y Calculus PHYA01Y Principles of Physics

Second year: ASTB50S Celestial and Classical Mechanics CSCB58F Computer Organization MATB30F Geometry I MATB31F Algebra I

MATB41F	Techniques of the Calculus of Several Variables I	CHMC33S CHMC36S	Inorganic Chemistry II Inorganic Chemistry Lab
MATB42S	Techniques of the Calculus of Several Variables II	CHMC44Y	Organic Chemistry II
MATB43S PHYB21S	Introduction to Analysis Electricity and Magnetism	and either	
	Electricity and istagnedant	CHMC25S	Physical Environmental
Third year: ASTC50F	Structure and Evolution of		Chemistry
ASTESOL	Astrophysical Bodies	or	
MATC51F	Differential Equations I		
MATC56S PHYB22S	Differential Equations II Electronics	CHMC35F	Inorganic Environmental
PHYB23H	Physics Laboratory		Chemistry
PSCC01H	Modern Applications of	Fourth year:	
OT A DAGE	Classical Science		se equivalents from:
STAB22F STAB47S	Statistics Introduction to Probability	CHMD33S CHMD34S	
31745	Theory and Mathematical	CHMD42S	
	Statistics	CHMD44S	
Fourth year:		CHMD88Y CHMD90Y	
ASTC51S	Stellar Systems, Galaxies and	CHMD91F	
	Cosmology	CHM400 :	series
CSCC50F	Numerical Algebra and Optimization	1 O full cours	se equivalent from:
CSCC51S	Numerical Approximation		I, CHM325H, CHM336H,
PHYC21F	Classical and Quantum Waves	CHM346H	I, CHM347H, CHM400 series
PHYC22S	Structure of Matter	DCCDOIE	Dallan Janua
PSCD01F PSCD02S	Policy Issues Current Ouestions in	PSCD01F PSCD02S	Policy Issues Current Questions in
	Mathematics and Science		Mathematics and Science
Specialist	Programme in	Specialist	Programme in
Chemistry		Chemistry	and Biochemistry
	A. Walker (287-7225) ost general of the Chemistry	Supervisor:	A. Walker (287-7225) nme places greater emphasis on
	ogrammes and provides the		l aspects of chemistry and is
	a firm basis in each of the		udents who are primarily
requires 16 F	odisciplines. The Programme		chemistry but who also want to emistry of living systems. The
requires 10 1			equires 16 F.C.E.'s.
First year:	Consert Chamiston	Elmat	
CHMA02Y CSCA57S	General Chemistry Introduction to Scientific	First year: BIOA03Y	Introductory Biology
020,10,10	Computing	CHMA02Y	General Chemistry
MATA26Y	Calculus	MATA26Y PHYA01Y	Calculus
PHYA01Y	Principles of Physics	FILAULI	Principles of Physics
Second year:		Second year:	
CHMB11Y CHMB22Y	Analytical Chemistry I Physical Chemistry I	CHMB11Y CHMB22Y	Analytical Chemistry I Physical Chemistry I
CHMB33Y	Inorganic Chemistry I	CHMB33Y	Inorganic Chemistry I
CHMB44Y	Organic Chemistry I	CHMB44Y	Organic Chemistry I
MATB41F	Techniques of the Calculus of	MATB41F	Techniques of the Calculus of
MATB42S	Several Variables I Techniques of the Calculus of	MATB42S	Several Variables I Techniques of the Calculus of
	Several Variables II		Several Variables II
Third year:		Third year:	
CHMC22F	Physical Chemistry II	CHMČ44Y	Organic Chemistry II
CHMC26F	Physical Chemistry Lab	BIOC35Y	Biochemistry

ВІОС36Н	Biochemistry Lab	MATB41
and either		MATB42
CHMC22F	Dhysical Chamistan IV	
CHMC26F	,	Third year BIOB14F
or		CHMC25
CHMC33S CHMC36S		CHMC35
	•	CHM319F
Fourth year CHM347H		and 1 F.C
and either		CHMC22I CHMC26I
СНМ447Н	Bio-organic Chemistry	or
or		CHMC33S
		CHMC36S
ВСН424Н	Bio-organic Mechanisms	
1.5 full-con	rse equivalents from:	or
CHMD33 CHMD34	S Inorganic Special Topics S Organometallic Catalysis	CHMC44Y
CHMD42	S Organic - Physical	Fourth year
CHMD44 CHMD88		CHM416H
CHMD90		GLGD01S
CHMD91		GLG400H
CHM400		PSCD01F
BCH400	series	PSCD02S
PSCD01F	Dollar I	
PSCD01F	Policy Issues Current Questions in	0 111
1002020	Mathematics and Science	Specialist Science
	manufacture and describe	Supervisor
Specialist	Programme in	This progra
Environme	ental Chemistry	education in
Supervisor:	K. Henderson (287-7215)	student for
This Program	nme is designed for students	computer fi
interested in	problems of our environment	computer se
causation de	that chemistry plays in their etection and solution. This	F?*
programme i	requires 15.5 F.C.E.'s.	First year: CSCA58F
¥8	7-100 10.0 1.0.0, 5.	CSCA58F
First year:		MATA04Y
BIOA03Y	Introductory Biology	MATA26Y
CHMA02Y	General Chemistry	PHYA01Y
GLGA01Y	Planet Earth: An Introduction	
MATA26Y	to Geology	Second year
PHYAOIY	Calculus Principles of Physics	CSCB28S
	Principles of Physics	CSCB38F
Second year:		CSCB58F
CHMB11Y	Analytical Chemistry I	MATB41F
CHMB22Y	Physical Chemistry I	
CHMB33Y CHMB44Y	Inorganic Chemistry I Organic Chemistry I	MATB42S
VIANID TT I	Organic Chemistry 1	MATB43S

MATB41F	Techniques of the Calculus of Several Variables I
MATB42S	Techniques of the Calculus of Several Variables II
Thind	
Third year: BIOB14F	
	Environmental Biology
CHMC25S	Physical Environmental Chemistry
CHMC35F	Inorganic Environmental Chemistry
СНМ319Н	Instrumental Analysis
and 1 F.C.L	E. chosen from
CHMC22F	Physical Chemistry II
CHMC26F	Physical Chemistry Lab
	t hydreat Chelinstry Lab
or	
CHMC33S	Inorganic Chemistry II
CHMC36S	Inorganic Chemistry Lab
or	
CHMC44Y	Organic Chemistry II
Fourth war	
Fourth year: CHM416H	0 0 0 .
CDIMATOH	
GLGD01S	Contaminant Hydrogeology
GLG400H	Environmental Geochemical
	Analysis
PSCD01F	Policy Issues
PSCD02S	Current Questions in
1002020	Mathematics and Science
Specialist	Programme in Computer
Science	g
Supervisor:	G. Cupit (287-7253)
This program	me provides a broadly based
education in	computer science. It prepares a
etudant for a	computer science. It prepares a
student for a	professional position in the
computer He	d, and for graduate study in
computer sci	ence.
First year:	
CSCA58F	Introduction to Constitution
CECACOE	Introduction to Computing
CSCA68S	Computer Applications
MATA04Y	Linear Algebra
MATA26Y	Calculus
PHYA01Y	Principles of Physics
Sagand	
Second year:	
CSCB28S	File Structures and Data
	Management
CSCB38F	Discrete Mathematics
CSCB58F	Computer Organization
MATB41F	Techniques of the Calculus of
	Several Variables I
MATB42S	
14171114420	Techniques of the Calculus of Several Variables II
MATB43S	Introduction to Analysis
141A 1 D433	Introduction to Analysis

specialist certification in Computer Science

and Physical Sciences.

Techniques of the Calculus of

Several Variables I

MATB41F

Third year:		MATB42S	Techniques of the Calculus of
CSCC24S	Principles of Programming	*****	Several Variables II
0000210	Languages	MATB43S	Introduction to Analysis
CSCC64S	Effective and Efficient		
0000010	Computing	Third year.	
CSCC78F	Information Structures	CSCC24S	Principles of Programming
STAB22F	Statistics		Languages
STAB47S	Introduction to Probability	CSCC64S	Effective and Efficient
S * 1 ED 11 O	Theory and Mathematical		Computing
	Statistics	CSCC78F	Information Structures
	-	MATC49F	Galois Theory
one of:		MATC51F	Differential Equations I
MATB31F.	MATC51F, MATC60F	MATC56S	Differential Equations II
		STAB22F	Statistics
Fourth year.		STAB47S	Introduction to Probability
CSCB09S	Software Tools		Theory and Mathematical
CSCC50F	Numerical Algebra and		Statistics
C5CC501	Optimization		
CSCC51S	Numerical Approximation,	Fourth year:	
COCCOIO	Integration and Ordinary	MATC53Y o	r MATC60F
	Differential Equations	and	
CSCC85S	Microprocessors	CSCC50F or	CSCC51S
000000		MATC65S,	CSCC50F or CSCC51S
one of:		One other 0.	5 course in Computer Science
	340, 372, 418, 428, 434, 444,		-
	68, 484, 485, 488	one of:	
.5., .66, .	33, 111, 111,		C30S, C31F, C32F
one of:			
CSC438, 44	8 465, 478, MATC31F, C32F	PSCD01F	Policy Issues
,		PSCD02S	Current Questions in
PSCD01F	Policy Issues		Mathematics and Science
PSCD02S	Current Questions in		
	Mathematics and Science	Specialist	Programme in Compute
			nd Statistics
Specialist	Programme in Computer	Supervisor:	M. Evans (287-7274)
Science a	nd Mathematics	The Speciali	st Programme in Computer
Supervisor:	G. Cupit (287-7253)		Statistics provides a student
This Program	nme provides a broadly based	with the cor	nputational and statistical
	computer science and	background	required in many applications
mathematics	. It prepares a student for a	of these field	ls. The Programme prepares
professional	position in the computer field	students for	employment opportunities in
and it is app	propriate for students who may	business, go	vernment and education and fo
wish to purs	ue a career in teaching or in	further gradu	iate study. This Programme is
government	and industry. It can also lead to	also an optic	on available in the Co-op
graduate stu	dy.	Computer Se	cience and Physical Sciences
		Programme.	See listing under Co-op.
First year:		***	
CSCA58F	Introduction to Computing	First year:	
CSCA68S	Computer Applications	CSCA58F	Introduction to Computing
MATA04Y	Linear Algebra	CSCA68S	Computer Applications
MATA26Y	Calculus	MATA04Y	Linear Algebra
PHYA01Y	Principles of Physics	MATA26Y	Calculus
		PHYA01Y	Principles of Physics
Second year	••		
CSCB38F	Discrete Mathematics	Second year	
CSCB58F	Computer Organization	CSCB28S	File Structures and Data
MATB30F	Geometry I		Management
MATB31F	Algebra Í	CSCB38F	Discrete Mathematics
MATB32S	Algebra II	CSCB58F	Computer Organization
MATDAIR	Tachniques of the Calculus of	MATRAIF	Techniques of the Calculus of

MATB41F

Techniques of the Calculus of

Several Variables I

	Pnysic	ai Science	s Scarborough 163
MATB42S	Techniques of the Calculus of	CSCB58F	Computer Organization
	Several Variables II	MATB41F	Techniques of the Calculus of
MATB43S	Introduction to Analysis	N (A TTD 400	Several Variables I
STAB22F STAB47S	Statistics Introduction to Probability	MATB42S	Techniques of the Calculus of Several Variables II
GIADAIS	Theory and Mathematical	PHYB21S	Electricity and Magnetism
	Statistics	PHYB22S	Electronics
		PHYB23H	Physics Laboratory
Third year:			•
CSCC24S	Principles of Programming	Third year:	a
CSCCGAS	Languages Effective and Efficient	CSCB09S	Software Tools
CSCC64S	Computing	CSCC24S	Principles of Programming Languages
CSCC78F	Information Structures	CSCC50F	Numerical Algebra and
0000,01		0000001	Optimization
STAC42S, S	TAC67F	CSCC78F	Information Structures
or		CSCC85S	Microprocessors
STAC52S, S	TAC62F	MATC51F	Differential Equations I
1 1 - 16	4. 1. 4. 1 6 6.1 1 6.7.4	PHLB70F	Philosophy of Science
	to be taken from C level STA carborough, CSCC54F, and 300	PSCC01H	Modern Application of Classical Science
	of STA courses on the St. George		Classical Science
campus.	of the outlies on the off George	Fourth year:	
•		CSCC51S	Numerical Approximation,
Fourth year.			Integration and Ordinary
CSCC50F	Numerical Algebra and		Differential Equations
CCCCETC	Optimization	CSCC64S	Effective and Efficient
CSCC51S	Numerical Approximation, Integration and Ordinary	PHYC21F	Computing Classical and Quantum Waves
	Differential Equations	PHYC22S	Structure of Matter
STAC52S, S			l-course equivalent from other
or			ical Science Division courses
STAC52S, S	TAC67F	D00D01D	
DSCINOIE	Policy Issues	PSCD01F	Policy Issues
PSCD01F PSCD02S	Policy Issues Current Questions in	PSCD02S	Current Questions in Mathematics and Science
1302023	Mathematics and Science		Mathematics and Science
		Co-operativ	e Programme in
	to be taken from C level STA		Science and Physical
	carborough, CSCC54F, and 300	Sciences	
	l STA courses on the St. George		Wittmann (287-7107)
campus.			: G. Cupit (287-7253) Studies: C. Dyer (287-7206)
Specialist	Programme in Computer	The Co-opera	tive Programme in Computer
Science ai	nd Physics		Physical Sciences is a work-
Supervisor: (C. C. Dyer		nme which combines academic
	nme is also available as an	studies in cor	nputer science, and other
	Co-op Computer Science and	disciplines in	the physical sciences with
	ences Programme. See listing		ents in public and private
under Co-op	•		The programme alternates
First year:			the regular academic term
CSCA58F	Introduction to Computing		May) with work terms during erm (May to August).
CSCA68S	Computer Applications		gramme prepares students for
MATA04Y	Linear Algebra	permanent en	nployment with government
MATA26Y	Calculus		enterprises concerned with
PHYA01Y	Principles of Physics	research and	technology as well as for
		graduate stud	y in Computer Science.
Second year: CSCB28S	File Structure and Data		eive a four-year B.Sc. with a
L AL BUXA	coe Minicure and Data	specialist ceri	OCCIONO IN L'AMBINET ACIÈNCE

CSCB28S

CSCB38F

File Structure and Data

Discrete Mathematics

Management

Admission to the Programme

- Applicants from Grade 13/OAC programmes (or equivalent) should indicate their choice of Scarborough College and the Co-Operative Programme in Computer Science and Physical Sciences on their Application for Admission to an Ontario University. They will then be sent a special application form for admission to a co-operative programme.
- From First-year University: Students accepted by the University and College may apply whether or not they have completed the first year curriculum. The timing of their work placement will depend upon the particular university courses they have already completed.

Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, and a letter of reference from a high school teacher or university instructor. An interview may be required. Enrolment is limited and only a small number of applicants can be accepted each year. Decisions about admissions are normally made annually in May and early June. To be considered for the first round of selection, co-op applications must be received by April 30, 1992. Therefore it is essential that the applicant apply to the University at least six weeks prior to this date. Fees: Every student in a co-operative programme is required to pay additional fees as established by the University.

The Specialist (Co-operative) Programme in Computer Science and Physical Sciences

This programme requires twenty courses (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the director and co-ordinator, a third work term may be allowed. Students are eligible for their first work term after their first two years of study. Work placements are arranged by the Office of Cooperative Programmes but must be won by students in competition with all applicants for the position.

Performance on work terms will be evaluated by both employer and coordinator. Students must also submit for evaluation a report for each work term.

To maintain standing in the programme, to be eligible for a work term, and to receive specialist certification upon graduation a student must

- maintain a cumulative grade point average of at least 2.50
- receive a satisfactory evaluation for work term performance and work term
- be registered as a full-time student during study terms

There are two courses of study offered within this co-operative programme. These will be outlined below as Option A: Computer Science and Physics and Option B: Computer Science and Statistics. Note that courses need not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that prerequisites are satisfied and other conflicts avoided. EACH STUDENT'S PROGRAMME REQUIRES THE ANNUAL APPROVAL OF THE SUPERVISOR OF STUDIES.

Computer Science and Option A Physics 16 required courses

First Year CSCA58F, CSCA68S, MATA04Y, MATA26Y, PHYA01Y CSCB38F, CSCB58F, Second Year CSCB28S, MATB41F and MATB42S or MATB05Y, PHYB21S, PHYB22S, PHYB23H

Third Year * CSCB09S, CSCC24S, CSCC50F, CSCC78F,

CSCC85S, MATC51F, PHLB70F, PSCC01H

Fourth Year * CSCC51S, CSCC64S, PHYC21F, PHYC22S, PSCD01F, PSCD02S, one full-course equivalent chosen from other C level Physical Sciences Division courses

* Students currently registered in year three or year four of the programme should consult the 1990/91 Calendar and the programme supervisor.

Option B Computer Science and Statistics 14.5 required courses

First Year CSCA58F, CSCA68S, MATA04Y, MATA26Y, PHYA01Y CSCB28S, CSCB38F, Second Year CSCB58F, MATB41F, MATB42S, MATB43S,

STAB22F, STAB47S

Third Year CSCC24S, CSCC64S,

Fourth Year

CSCC78F, (STAC67F and STAC42S) or (STAC62F and STAC52S), plus one half-course equivalent from C level statistics courses, CSCC54F, and 300 and 400 level statistics courses on the St. George Campus CSCC50F, CSCC51S, PSCD01F, PSCD02S, (STAC67F and STAC42S) or (STAC62F and STAC52S), plus one halfcourse equivalent from C level statistics courses. CSCC54F, and 300 and 400 level statistics courses

on the St. George Campus

NOTE: IT IS THE STUDENTS' INDIVIDUAL RESPONSIBILITY TO ENSURE THAT THEY HAVE CORRECTLY COMPLETED PROGRAMME AND DEGREE REQUIREMENTS FOR GRADUATION.

Eligibility for work placements To compete for work term placement a student must be in good standing in the Programme and must have completed at least ten full-course equivalents.

Normally, students return to their studies after each work term (and must be registered in courses after the completion of their last work term).

CSPC01-C03H Computer Science and Physical Sciences Co-op Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in an appropriate, related field is alternated with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term. Continuation in a Co-op Programme is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing in the Programme and must have completed 10 courses. Course credit of 0.5 full-course equivalent is granted for each four month work period. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit system. There are no additional course fees for work terms.

Specialist Programme in Terrain and Environmental Earth Sciences

Supervisor: N. Eyles (287-7231) There is increasing global concern with the effects of environmental pollution and geological hazards on society. This is reflected in an escalating demand in industry, education and government for graduates with an environmental geology training. The Terrain and Environmental Earth Sciences (TEES) Specialist Programme provides students with a comprehensive multidisciplinary background necessary to understand and work with current environmental problems. The TEES programme specifies 16.5 of the 20 courses required for a four-year degree, drawing on expertise and facilities both on the Scarborough and St. George Campuses. The programme includes two field courses, each of two weeks duration, taken at the end of the second and third years. These will familiarize students with field techniques in a wide range of geological environments. Locations vary; in recent years field camps have been held in Appalachia, Costa Rica and the Rocky Mountains of Alberta and British Columbia.

Several other courses in the TEES Programme contain a local fieldwork component concerned with urban environmental geology problems in the Toronto area.

First year:	
BIOÁ03Y	Introductory Biology
CHMA02Y	General Chemistry
GLGA01Y	Planet Earth: An Introduction
	to Geology
MATA26Y	Calculus
PHYA01Y	Principles of Physics
	•

PHYA01Y	Principles of Physics
Second year: CHMB11Y	Analytical Chemistry I
or	Third Chemistry 1
CHMB22Y	Physical Chemistry I
GLGB02S	Stratigraphy and
	Sedimentology
GLGB03S	Field Camp I
GLGB05F	Introductory Mineralogy
GLGB06S	Optical Mineralogy
GGRB19Y	Geomorphology
MATB41F	Techniques of the Calculus of
	Several Variables I

Third year.	
CHMB44Y	Organic Chemistry I
GLG332F	Structural Geology
GLG318F	Petrology I
GLG319S	Petrology II

GGRD07S Fourth year:

CHMC25H Physical Environmental Chemistry

CHMC35H Inorganic Environmental

Chemistry

GLGC06F Glacial & Periglacial

Geology Hydrogeology

GLGC10F Contaminant Hydrogeology GLGD01S Field Camp II: Rocky GLGD05F

Mountains

PSCD01H Policy Issues in Mathematics

and Science

Specialist Programme in Mathematics

Supervisor: E. Moore (287-7267) The Specialist Programme in Mathematics is designed to give students a thorough grounding in the main areas of Mathematics, together with an understanding of the close relationship between Mathematics and other Sciences. It is aimed at students who may be interested in teaching, law, government or industry, or who may decide to pursue a career in research.

First year:

Introduction to Computing CSCA58F Computer Applications CSCA68S

Linear Algebra MATA04Y MATA26Y Calculus

Principles of Physics PHYA01Y

Second year:

MATB30F Geometry I MATB31F Algebra I MATB32S Algebra II

Techniques of the Calculus of MATB41F Several Variables I

Techniques of the Calculus of MATB42S Several Variables II

MATB43S Introduction to Analysis STAB22F Statistics

CSCB58F, PHYB21S, STAB47S

Third year:

MATC49F Galois Theory

MATC51F Differential Equations I Differential Equations II MATC56S

MATC53Y Real Analysis

or

MATC60F, MATC65S

three of:

MATB70S, C30S, C31F, C32F, C54F Any additional CSC 0.5 course Any additional STA 0.5 course

Fourth year:

MATC53Y or MATC60F

and MATC65S

two of:

CSCC50F, CSCC51S, MATB70S, C30S, C31F, C32F, C54F

PSCD01F PSCD02S

Policy Issues Current Questions in Mathematics and Science.

Specialist Programme in Mathematics and Statistics

Supervisor: M. Evans (287-7274) The Specialist Programme in Mathematics and Statistics provides a student with the mathematical and statistical background for a sound understanding of statistical theory and practice. The Programme prepares students for employment opportunities in business, government and education and for graduate study.

First year:

CSCÁ58F Introduction to Computing Computer Applications CSCA68S MATA04Y Linear Algebra MATA26Y Calculus

PHYA01Y

Principles of Physics

Second year.

MATB31F Algebra I Algebra II MATB32S MATB30F Geometry

Multivariate Calculus I MATB41F MATB42S Multivariate Calculus II MATB43S Introduction to Analysis STAB22F Statistics

STAB47S Introduction to Probability Theory and Mathematical

Statistics

Third year.

MATČ49F Galois Theory

MATC51F Differential Equations I MATC56S Differential Equations II

STAC52S, STAC62F

STAC42S, STAC67F

I half course to be taken from C level STA courses at Scarborough, CSCC54F, 300 and 400 level STA courses on the St. George campus.

Fourth year:

MATC53Y Real Analysis

MATC60F Complex Analysis I MATC65S Complex Analysis II 1 additional MAT half course

STAC52S, STAC62F

STAC42S, STAC67F

PSCD01F Policy Issues PSCD02S

Current Questions in Mathematics and Science

1 half course to be taken from C level STA courses at Scarborough, CSCC54F, 300 and 400 level STA courses on the St. George campus.

Specialist Programme in Physical Sciences

Supervisors: C. C. Dyer, M.J. G. Lee This Programme requires 16 full-course equivalents. The programme provides a broad introduction to Astronomy, Chemistry and Physics based upon a firm mathematical foundation. It is intended for students who may wish to pursue a career in teaching or in one or more of the Physical Sciences or to acquire a basic understanding of the Physical Sciences before undertaking a career in government or industry.

First year:

ASTÁ03Y Introduction to Astronomy CHMA02Y Chemistry CSCA57S Introduction to Scientific

Computing MATA26Y Calculus

PHYA01Y Principles of Physics

Second year:

ASTB5ÓS Celestial and Classical Mechanics

CHMB11Y Analytical Chemistry I CSCB58F Computer Organization MATB41F Multivariate Čalculus I MATB42S Multivariate Calculus II PHYB21S Electricity and Magnetism

STAB22F Statistics

Third year:

ASTC50F Structure and Evolution of Astrophysical Bodies CHMB22Y Physical Chemistry I

PHLB70F Philosophy of Science PHYB22S Electronics

PHYB23H Physics Laboratory PSCC01H Modern Applications of Classical Science

Fourth year:

CSCC50F

ASTC51S Stellar Systems, Galaxies and

Cosmology

CHMB33Y Inorganic Chemistry I

CHMB44Y Organic Chemistry I

> Numerical Algebra and Optimization

CSCC51S Numerical Approximation

PHYC21F Classical and Ouantum Waves PHYC22S Structure of Matter PSCD01F Policy Issues PSCD02S Current Questions in

Mathematics and Science

Major Programme in Astronomy and Physics Supervisors: C. C. Dyer, M. J. G. Lee

In this Programme, students must complete 8 full- course equivalents in astronomy, mathematics and physics as listed below. After completing the programme, students will have a good education in the basic principles and applications of modern astronomy and physics. It is intended for those who desire a basic understanding of these subjects but who do not plan to pursue graduate studies.

First year: ASTA03Y

Introduction to Astronomy

MATA26Y Calculus

PHYA01Y Principles of Physics

Second year: ASTB50S

Celestial and Classical Mechanics MATB41F Techniques of the Calculus of

> Several Variables I Techniques of the Calculus of

Several Variables II Electricity and Magnetism

PHYB21S PHYB23H Physics Laboratory

Third year. ASTC50F

MATB42S

Structure and Evolution of Astrophysical Bodies ASTC51S

Stellar Systems, Galaxies and Cosmology

PHYC21F Classical and Quantum Waves PHYC22S Structure of Matter

PSCC01H Modern Application of

Classical Science

Major Programme in Chemistry Supervisor: A. Verner (287-7224) This is the most general Major Programme offered. With its wide selection of options, it offers the possibility of obtaining an introduction to all of the subdisciplines of chemistry.

Students should complete the following eight courses:

CHMA02Y MATA26Y PHYA01Y	General Chemistry Calculus Principles of Physics
or PHYA02Y	Concepts of Physics

First year:

Inorganic/Organic

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

CHMB11Y	Analytical Chemistry I
CHMB33Y	Inorganic Chemistry I
CHMB44Y	Organic Chemistry I
CHMC33S	Inorganic Chemistry II
CHMC36S	Inorganic Chemistry
	Laboratory
CHMC44Y	Organic Chemistry II

Physical Org	eanic
CHMB22Y	Physical Chemistry I
CHMB44Y	Organic Chemistry I
MATB41F	Techniques of the Calculus o
	Several Variables I
MATB42S	Techniques of the Calculus o
	Several Variables II
CHMC22F	Physical Chemistry II
CHMC26F	Physical Chemistry
	Laboratory
CHMC44Y	Organic Chemistry II

Physical Inoi	rganic
CHMB11Y	Analytical Chemistry I
CHMB22Y	Physical Chemistry I
CHMB33Y	Inorganic Chemistry I
MATB41F	Techniques of the Calculus of
	Several Variables I
MATB42S	Techniques of the Calculus of
	Several Variables II

and either

CHMC22F CHMC26F	Physical Chemistry II Physical Chemistry Laboratory
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or

CHMC33S	Inorganic Chemistry II
CHMC36S	Inorganic Chemistry Laboratory

Chemistry	
CHMB11Y	Analytical Chemistry I
CHMB22Y	Physical Chemistry I
CHMB33Y	Inorganic Chemistry I
CHMB44Y	Organic Chemistry I
One full-cour	se equivalent C-level
	ourse*** which includes a
laboratory.	

*** Students should note that if they are going to select CHMC22F, CHMC26F then MATB41F and MATB42S are required as prerequisites.

Major Programme in Biochemistry Supervisor: J. Potter (287-7222) 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

Students should complete the following seven and one-half courses:

First year:	
BIOA03Y	Introductory Biology
CHMA02Y	General Chemistry

Second and Ti	hird years:
CHMB11Y	Analytical Chemistry
CHMB44Y	Organic Chemistry I
CHMC44Y	Organic Chemistry II
BIOC35Y	Introductory Biochemistry
BIOC36H	Laboratory in Biochemistry

one of:	
BIOB02Y	Basic Microbiology
BIOB17Y	General and Comparative
	Physiology
CHMB22Y*	Physical Chemistry I
CHMB33Y	Inorganic Chemistry I
* If CHMB22	Y is chosen, MATA26Y and
PHYA01Y ar	e prerequisites.
MATA26Y is	a strongly recommended
course.	

Major Programme in Mathematical Sciences

Students must choose one of the following options:

Mathematics:

mach chi witch	
Supervisor:	H. S. Rosenthal (287-7268)
First year:	
MATA26Y	Calculus
MATA04Y	Linear Algebra
CSCA58F	Introduction to Computing
CSCA68S	Computer Applications

Second and	Third years:
MATB31F	Algebra I

MATB41F	Techniques of the Calculus o
	Several Variables I
MATB42S	Techniques of the Calculus o
	Several Variables II
OT A DOOR	Cantinting

STAB22F Statistics

- a) 1.5 full-course equivalents from: MATB43S, C51F, C53Y, C56S, C60F,
- b) 0.5 full-course equivalent from: MATB30F, B31F, B32S, B70S, C30S, C31F, C32F, C43S, C49F, C54F,
- c) 1.0 full course equivalent from: CSCB28S, B38F, B58F, C24S, C50F, C51S, C54F, C64S, C78F, C85S, CSC300, 318, 340, MATC31F, C32F, any 400 level CSC course on St. George campus. STAB47S, C42S, C62F, C67F, any 300 and 400 level STA course on St. George campus.

Computer Science:

Compacer	Deletter.
Supervisor:	G. Cupit (287-7253)
First year:	- ,
CSCA58F	Introduction to Computing
CSCA68F	Computer Applications
MATA04Y	Linear Algebra
MATA26Y	Calculus

Second and Third years:

CSCB28S	File Structures and Data
	Management
CSCB38F	Discrete Mathematics
CSCB58F	Computer Organization
MATB41F	Techniques of the Calculus of
	Several Variables I
MATB42S	Techniques of the Calculus of
	Several Variables II
STAB22F	Statistics

- a) 1.0 full-course equivalent from: CSCC24S, C50F, C51S, C54F, C64S, C78F, C85S, CSC300, 318, 340, MATC31F, C32F, any 400 level CSC course on St. George campus.
- b) 0.5 full-course equivalent from: MATB43S, C51F, C53Y, C56S, C60F, C65S MATB30F, B31F, B32S, B70S, C30S, C31F, C32F, C43S, C49F, C54F, STAB47S, C42S, C52F, C62F, C67F, any 300 and 400 level STA courses on St. George campus.
- c) 0.5 full-course equivalent from: Course list in a) above PLUS b) above

Statistics Supervisor: S. Chawla (287-7252)

	0. Chama (201-1232)
First year:	
CSCA58F	Introduction to Computing
CSCA68S	Computer Applications
MATA04Y	Linear Algebra
MATA26Y	Calculus

Secona ana 1	nird years:
MATB41F	Techniques of the Calculus of
	Several Variables I
MATB42S	Techniques of the Calculus of
	Several Variables II
STAB22F	Statistics
STAB47S	Introduction to Probability
	Theory and Mathematical
	Statistics

- a) 2.0 full-course equivalents from: STAC42S, STAC52F, C62F, C67F, any 300 and 400 level STA courses on St. George campus.
- b) 1.0 full-course equivalent from: MATB43S, C51F, C53Y, C56S, C60F, C65S MATB30F, B31F, B32S, B70S, C30S, C31F, C32F, C43S, C49F, C54F, STAC42S, C52F, C62F, C67F, any 300 and 400 level STA course on St. George campus. CSCB28S, B38F, B58F, C24S, C50F, C51S, C54F, C64S, C78F, C85S, CSC300, 318, 340, MATC31F, C32F, any 400 level CSC course on St. George campus.

PSCC01H Modern Applications of Classical Science

The use of concepts from classical science in modern systems in society will be considered. Particular applications might include energy production and distribution systems, such as hydro-electric grid systems. The constraints on the design, efficiency, etc. of such systems imposed by the laws of classical science, such as thermodynamics, will be considered, and evolutionary possibilities of such systems as technology changes will be considered subject to the same constraints. Prerequisites: PHYB21S, MATB41F, MATB42S Corequisite: PHYB22S, PHYB23H

PSCD01F Policy Issues in Mathematics and Science

Consideration of the impact of modern sciences on society, particularly concerned with public policy pertaining to the problems and benefits brought to society with an increasing dependence on science and engineering. Topics will include

energy sources and consumption, environmental hazards of resource based and manufacturing industries, acceptable, safe, and peaceful uses of new technologies. Where appropriate, outside guest lecturers will participate in the course. Prerequisite: Completion of at least one half of the full-course equivalent requirements of the required courses in any one of the Physical Sciences Scarborough Programmes. Corequisite: Continued participation in one of the Physical Sciences Scarborough Programmes. Not offered 1992/93

PSCD02S Current Questions in Mathematics and Science

Topics of current prominence in the physical sciences and mathematics will be discussed, usually by faculty or outside guests who are close to the areas of prominence. Topics will change from year to year as the sciences evolve. An appropriate topic at the present would be, for example, the phenomenon of hightemperature super conductivity. Prerequisite: PSCD01F Corequisite: Continued participation in one of the Physical Sciences Scarborough Programmes. Not offered 1992/93

Physics

Discipline Representative: A. Griffin Physics is the study of the basic laws which describe how material objects move and influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions among the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses and of xray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject.

It is possible to develop, in mathematical language, theories that run so closely parallel to the development of physical phenomena that they may be used to accurately describe and even predict the results of many carefully controlled experiments. The study of physics, therefore, requires some studies both of mathematics and of the techniques that are needed in the performance of accurate experiments.

At Scarborough College, a student interested in Physics can take the Specialist Programme in Astronomy, Physics and Mathematics, the Specialist Programme in Physical Sciences, or the Major Programme in Astronomy and Physics. In addition, there is a Co-operative Programme in Computer Science and Physical Sciences.

NOTE: There are two introductory courses in physics: PHYA01Y and PHYA02Y.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Astronomy, Mathematics and Physics

Specialist Programme in Computer Science and Physics

Specialist Programme in Co-op Computer Science and Physical Sciences

Major Programme in Astronomy and Physics

Major Programme in Physics

The Major Programme in Physics is no longer offered. Students currently registered will be allowed to complete it.

PHYA01Y Principles of Physics Telephone ID #: 24810163

Classical mechanics: potential energy, conservation laws, rotational dynamics, planetary motion, harmonic vibrations, wave equations; Thermodynamics: temperature, entropy, ideal gases; Special theory of relativity: Lorentz transformation, relativistic mechanics, E=mc²; Electricity and magnetism: Maxwell's equations, electromagnetic waves; Quantum mechanics: Schrodinger's equation in simple systems, lasers, electronic states in metals and semiconductors, the structure of the nucleus.

Two lectures and one tutorial per week. and a three-hour laboratory every second week.

Exclusion: PHYA02; (PHYA03); PHY110, 130, 138, 150

Corerequisite: MATA26 or (MATA27) or (MATA55)

Session: Winter Day

PHYA02Y Concepts of Physics

Telephone ID #: 24810263 Classical mechanics: potential energy, linear and angular momentum, planetary motion; Thermodynamics: temperature, entropy, ideal gases; Special theory of relativity: length contraction, time dilation, E=mc²; Electricity and magnetism: electric and magnetic fields, laws of Gauss, Ampere, Faraday, and Maxwell, electrognetic waves; Quantum physics: atoms and molecules, solids, structure of nuclei, radioactivity, nuclear fission, the early universe.

Two lectures and one tutuorial per week, and a three-hour laboratory every second week. Exclusion: PHYA01; (PHYA03); PHY110, 130, 138, 150 Prerequisite: OAC Calculus and OAC Algebra or Grade 13 Calculus Session: Winter Day

PHYB21S Electricity and Magnetism Telephone ID #: 24822153

Coulomb's law, electric fields, Gauss' law, electric potential, capacitance, dielectrics, magnetic forces and fields, inductance, magnetization, Faraday's law, displacement current, Maxwell's equations. Exclusion: PHYB01

Prerequisite: PHYA01; MATB41

PHYB22F Electronics

Telephone ID #: 24822233 Non-linear elements including diodes and transistors, rectifiers, simple filters, amplifiers, pulse circuits, operational

amplifiers, logic gates, Boolean algebra, digital electronics. Includes a three-hour laboratory every second week.

Exclusion: PHYB03

Prerequisite: PHYA01 or PHYA02; MATA26

Corerequisite: PHYB23

PHYB23H Physics Laboratory

Telephone ID #: 24822343 Experiments in circuit theory, basic electricity and magnetism, solid state physics and atomic and nuclear physics. A six-hour laboratory once every two weeks. Exclusion: PHYB08, PHYC05

Corerequisite: PHYB21

PHYC05H Advanced Physics Laboratory

Telephone ID #: 24830543

A selection 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 more complex experiments, introducing them to vacuum techniques, Xrays, 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.

Exclusions: PHY325, 326 Prerequisite: PHYB01; PHYB08

Corerequisite: PHYB17 Session: Winter Day

PHYC21F Classical and Orantum Waves

Telephone ID #: 24832133

Harmonic motion, damping, driven and coupled oscillators; standing and running waves: interference and diffraction; normal modes; wavefunctions in quantum theory; wave-particle duality; de Broglie matter waves; wave mechanics of 1-dimensional systems.

Exclusion: PHYB04, PHYC08 Prerequisite: PHYB21; MATB42

PHYC22S Structure of Matter Telephone ID #: 24832253

Introduction to the quantum description of electronic properties of atoms, molecules and solids (including semiconductors and superconductors); subatomic physics of elementary particles and structure of nuclei; nuclear power. Course includes discussion of Fermi and Bose statistical distributions. Exclusion: PHYB17, PHYB19, PHYC04, PHYC07, PHYC09; PHY256, 330

Prerequisite: PHYC21

Courses Not Offered in 1992-93

PHYC04F Physics of Solid State Devices Exclusion: PHY455 Prerequisite: PHYB01; PHYB03; PHYB17; PHYB19

Political Science

Discipline Representative: A. Rubinoff (287-7295)

Political Science consists of a variety of approaches to the study of politics. Politics is the process of attempting to resolve conflicts among competing interests and values, and over how societal resources will be allocated. The discipline includes not only the study of policies and arrangements created to facilitate non-violent resolution of conflict at the level of the nation state, but also the institutional and informal means by which a group may enhance its power (that is, its ability to have its 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 politics (industrial countries), comparative politics (developing countries), public administration, and public policy, international relations, and political theory. In the study of Canadian Government students will become familiar with the process and structures of decision making in Canada. Public Administration deals with the institutions or organizational structures through which public policies are implemented. Courses in Comparative Government Politics focus on the political practices and policies of a wide variety of nations and thus broaden the student's awareness of foreign political systems. International Relations is devoted to the analysis of the foreign policies of various nation states and of the relations amongst nation states. 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 various conceptions of the "quality of life".

Levels of courses range from A to D; the lettering corresponds to increasing degrees of concentration and difficulty of subject matter. D-level courses are advanced seminars and assume a strong background in political science and/or related fields such as economics, geography, history, philosophy, and sociology. Students are

advised to consult the instructors of D-level courses or the Supervisor of Studies prior to enroling in them.

In limited enrolment courses, priority is given to students for whom the course is required in a given year of a programme. Students will be informed prior to the end of classes in April on how to apply to limited enrolment courses. Students should consult the Supervisor of Studies about procedures.

Prerequisites: Because appropriate academic preparation for advanced work in political science can vary greatly from one course to another, specific prerequisites are not always stated for higher-level courses. Where prerequisites are stated, they will be strictly enforced. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses.

Specialist Programme in Political Science

Supervisor: D. Welch (287-7308) Note: Registration in this Programme is limited.

Applications for admission to the Specialist Programme are accepted after students have completed at least four fullcourse equivalents (i.e. generally after completing the first year of the degree programme). Applicants must have completed or be in the process of completing POLA50Y. Students will be selected to enter the second year of the programme on the basis of their GPA for those four courses taken to date (including POLA50Y) in which their grades are highest. Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

Students must complete ten full-course equivalents in Political Science. The courses must be approved by the Supervisor and must include the following:

- 1 POLA50 Introduction to Canadian **Politics**
- 2 Two full course equivalents in political theory from: POLB70, POLC70, POLČ74, POLC75, POLD71, POLD72, POLD73
- 3 One full course from each of any three of the following fields:
 - A Canadian Government: POLB51, POLC52-C55, POLD51, POLD65
 - Public Administration and Public Policy: POLB53, POLB61, POLB62, POLC60, POLC61, POLC63, POLC64, POLD50, POLD62.
 - C International Relations: POLB80, POLC81, POLC82, POLC83, POLC84

- D Comparative Politics, Industrial Countries: POLB86, POLB87, POLC68, POLC85, POLC87, POLC89, POLC90
- Comparative Politics, Developing Countries: POLB91, POLC95, POLC96, POLC97, POLC98, POLD93, POLD94

Students in the Specialist Programme may not take more than fourteen full-course equivalents in Political Science. In selecting courses from other disciplines, they should consult with the Supervisor or with a member of the Political Science staff.

Major Programme in Political Science

Supervisor: D. Welch (287-7308) Note: Registration in this Programme is limited.

Applications for admission to the Major Programme are accepted after students have completed at least four full-course equivalents (i.e. generally after completing the first year of the degree programme). Applicants must have completed or be in the process of completing POLA50Y. Students will be selected to enter the second year of the programme on the basis of their GPA for those four courses taken to date (including POLA50Y) in which their grades are highest. Students wishing to register at a later date may be admitted at the discretion of the Supervisor.

Students must complete at least six full-course equivalents in Political Science. The courses must be approved by the Supervisor and must include the following:

- 1 POLA50 Introduction to Canadian **Politics**
- 2 One full course equivalent in political theory from: POLB70, POLC74, POLČ75, POLD72, POLD73
- 3 One full course equivalent from each of any three of the following fields:
 - A Canadian Government: POLB51, POLC51, POLC52, POLC54, POLC55, POLD65
 - **B** Public Administration and Public Policy: POLB53, POLB61, POLB62, POLC60, POLC61, POLC63, POLC64, POLD50, POLD62
- C International Relations: POLB80, POLC81, POLC82, POLC83, POLC84
- D Comparative Politics, Industrial Countries: POLB86, POLB87, POLC68, POLC85, POLC87, POLC90

E Comparative Politics, Developing Countries: POLB91, POLC95, POLC96, POLC97, POLC98. POLD93, POLD94

Specialist Programme in Economics and Political Science (see under Economics)

POLA50Y Introduction to Canadian Politics

Telephone ID #: 25215063 A study of Canadian political institutions and processes. Specific topics include: the constitution, federalism, civil liberties, federal-provincial relations, political regionalism, French Canada, the West, social class and politics, public opinion and political culture, elections, political parties, interest groups, Cabinet and Prime Minister, Parliament, the public service. Two lectures a week and a tutorial once every two weeks.

Class size is limited to 80 per section. Exclusion: (POLB50), POL100 Session: Summer Evening, Winter Day, Winter Evening L. Johnston, R. Blair, TBA

IDSB01Y Political Economy of International Development Telephone ID #: 08120163 Introduces students to major development problems, the principal social, economic and political factors that condition these and the impact on them of various development strategies pursued in a sample of Third World countries. Prerequisite: One course in either Economics or Political Science Session: Winter Day

POLB70Y Political Thought from Plato to Locke

Telephone ID #: 25227063 An examination of the central political texts from Plato to the early modern period. Students will be expected to read Plato's Republic, Aristotle's Politics, Machiavelli's The Prince, Hobbes' Leviathan (Parts one and two) and Locke's Second Treatise of Government. The political writings of St. Augustine and St. Thomas Aquinas will also be studied. Class size is limited to 80 per section. Exclusion: COM360 Session: Winter Day E. Andrew

POLB80Y International Relations

Telephone ID #: 25228063 A study of the nature of the international system, the factors that motivate foreign policies, and the institutions for the conduct of international relations. Class size is limited to 80 per section. Exclusion: POL208

Prerequisite: Not open to first year students without permission of instructor Session: Winter Day, Winter Evening D. Welch, A. Rubinoff

POLB86Y Soviet Government and Politics

Telephone ID#: 25228663 The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects. The course examines the formation and consolidation of the Soviet political order and the urgent problems confronting Soviet society today. Class size is limited to 80 per section. Exclusion: (POLB23), POL204 Session: Winter Day S. Solomon

POLB87Y U.S. Government and Politics Telephone ID #: 25228763

This course explores politics in the United States by analyzing the American federal system, examining the institutions and processes of government, and by focusing on selected policy issues. Class size is limited to 80 per section.

Exclusion: POL203 Session: Winter Day A. Rubinoff

POLB91Y Politics of the Third World

Telephone ID #: 25229163 The effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporation, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya.

Class size is limited to 80 per section. Exclusion: POL201 Session: Winter Day

J. Teichman

POLC52Y Canadian Constitution

Telephone ID #: 25235263 Historical origins of the Canadian constitution and its evolution since 1867; the law and customs of the constitution:

judicial interpretation of the Constitution Act 1867 and its effect on federalism and civil liberties; constitutional change and the Constitution Act 1982; contemporary constitutional issues. Class size is limited to 60 per section.

Exclusion: POL210 Prerequisite: POLA50 (POLB50)

Session: Winter Day

R. S. Blair

POLC74Y Political Thought of the Eighteenth and Nineteenth Centuries

Telephone ID #: 25237463 A study of the major political philosophers of the eighteenth and nineteenth centuries. Particular emphasis will be placed on Rousseau's Discourse on Inequality and Social Contract; Burke's Reflections on the Revolution in France, de Tocqueville's Democracy in America, and selected writings of J.S. Mill and Marx. Class size is limited to 60 per section.

Exclusion: POL320 Prerequisite: POLB70

Session: Winter Day, Summer Evening M. Williams

POLC75Y Political Analysis

Telephone ID#: 25237563

An examination of the methods of analysis used in the empirical study of politics. The purpose of the course is to enable the student who read political literature to identify underlying values and assumptions, to differentiate good from poor logic of argument, to distinguish between adequate and inadequate use of evidence and between warranted and unwarranted conclusions drawn from that evidence. Special attention will be paid to the questions surrounding the "science of politics".

Class size limited to 60 per section. Exclusion: POLB65 (1985-86) (POLB72), POL318)

Prerequisite: POLA01 Session: Winter Day S. Solomon

POLC84Y Canadian Foreign Policy

Telephone ID #: 25238463

An examination of the most important elements within Canada's foreign policy since 1945 and a consideration of the issues and the influences which have determined that policy.

Class size is limited to 60 per section.

Exclusion: POL312

Prerequisite: POLA50 (POLB50) or

POLB80Y

Session: Winter Day

D. Welch

POLC87Y Comparative Politics of Industrial Societies

Telephone ID #: 25238763

A comparative analysis of politics in advanced industrial societies including consideration of the following topics: interaction among political and bureaucratic elites, interest group representation, the dynamics of the welfare state, and future conditions of post-industrial societies. Organization of the course will depend upon enrolment.

Class size is limited to 60 per section. Exclusion: (POLB85), POL300 Prerequisite: POLA50 and one 'B' level course in political science Session: Winter Day J. Esberey

POLC98Y Politics and Society in Latin America

Telephone ID #: 25239863 This lecture/seminar course will survey the evolution and current traits of political institutions in Latin America with particular emphasis upon the role of domestic and international forces in shaping them. Class size is limited to 60 per section. Prerequisite: IDSB01Y or POLB91Y

Session: Winter Day

J. Teichman

POLD71Y Canadian Political Ideas

Telephone ID #: 25247163

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. Class size is limited to 20 per section.

Exclusion: POL212, POL407 Prerequisite: One of POLA50 (POLB50),

POLB70, POLC74, HISB04 Session: Winter Day

E. Andrew

POLD93F Selected Topics on Developing

Telephone ID #: 25249333 A detailed examination of particular problems in the study of developing areas. The topics will be announced annually in the Spring.

Class size is limited to 20 per section. Prerequisite: POLB91 or permission of instructor.

Session: Winter Day

TBA

POLD94S Selected Topics on Developing

Telephone ID #: 2524945

The topic to be examined this year is the role of the state in facilitating economic development in the Third World. Both capitalist and socialist patterns receive attention. Comparisons to Western and Japanese experience are drawn. Class size is limited to 20 per section. Prerequisite: A social science course on the Third World or development Session: Winter Day

POLD98F Supervised Reading

Telephone ID #: 25249833

TBA

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: POL495 Prerequisite: One B-level course in Political Science; Permission of Instructor. Session: Summer Evening, Winter Day, Winter Evening Staff

POLD99S Supervised Reading

Telephone ID #: 25249953

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: POL495

Prerequisite: One B-level course in Political Science; Permission of Instructor. Session: Summer Evening, Winter Day, Winter Evening Staff

Courses Not Offered in 1992-93

POLB51F/S Government and Politics in

Ontario Limit 80 Exclusion: POL336 Prerequisite: POLA50 (POLB50)

POLB53F/S Public Policies in Canada Limit 80 Prerequisite: POLA50

(POLÃ01 or POLB50)

POL446

Prerequisite: POLB70,

POLC74 or POLC75

BOLD (1E/C	Const. Doll.	DOL COLEG	T1 D . 1 1 . 6
PULBOIF/S	Canadian Public Administration:	POLC81F/S	The Psychology of International Relations
	Institutions and Processes		Limit 60
	Limit 80		Prerequisite: (POLB66) or
	Exclusion: (POLB60),		POLB80
	COM360	POLC82Y	American Foreign Policy
	Prerequisite: POLB50		Limit 60
POLB62F/S	Public Policy-Making		Exclusion: POL326
	Limit: 80		Prerequisite: POLB80 or
	Exclusion: (POLB60)		POLB87
	Prerequisite: POLA01 or	POLC95Y	Politics and Society in
POLC53F/S	POLB50		Tropical Africa
rolessr/s	The Politics of Canadian Environmental Policy		Exclusion: POL301 Prerequisite: none, but a
	Prerequisite: POLA50	•	course in introductory
POLC54F/S	Intergovernmental		political science would be
100001110	Relations in Canada		helpful
	Limit 60	POLD50F/S	Organized Interests and
	Exclusion: POL316		Public Policy in Canada
	Prerequisite: POLA50		Limit 20
	(POLB50)		Prerequisite: POLA50
POLC55F/S	Comparative Provincial	not netric	(POLB50)
	Government Limit: 60	POLD51F/S	Topics in Canadian Government
	Exclusion: POL333		Limit 20
	Prerequisite: POLA50		Prerequisite: POLA50
	(POLB50)		(POLB50)
POLC60F/S	Administrative Politics	POLD62F/S	Organized Interests and the
	Limit 60		State
	Prerequisite: POLA50		Limit 20
	(POLB50) plus POLB61 or		Prerequisite: POLA50
DOLOGIEGO	POLB62		(POLA01 or POLB50) or
POLC61F/S			POLC87
	Political Evaluation Limit 60	POLD65F/S	Topics in Political
	Prerequisite: POLB53 or	I OLDUSTIS	Leadership
	POLB62 or POLB61		Prerequisite: POLA50 and
POLC63F/S	Administrative Theories		one 'C' level course in
	and Policy-Making		Canadian politics
	Limit 60	POLD72F/S	Selected Topics in Political
	Prerequisite: POLA50		Philosophy
	(POLB50) plus POLB61 or		Limit 20
DOLOGADIO	POLB62	_	Prerequisite: POLB70,
POLC64F/S	Comparative Public		POLC74 or permission of
	Administration Limit 60	POLD73F/S	instructor
POLC68F/S	Comparative	TOLD/3F/S	Selected Topics in Political Philosophy
TOLCOOLIS	Intergovernmental		Limit 20
	Relations: Environment		Prerequisite: POLB70,
	Policy		POLC74 or Permission of
	Prerequisite: POLA50		Instructor
	(POLB50) and one of		
	POLB53, POLC54,		
DOLOSON	POLC87		
POLC70Y	Twentieth Century		
	Political Thought		
	Limit 60 Exclusion: POL400.		
	Exclusion: POL400,		

Psychology

Associate Chair: G.C. Cupchik (Office S-634)

Psychology is that branch of science which seeks to understand behaviour and mind. Why organisms -human and infrahuman - act as they do is one of the most compelling and longstanding questions in the history of human thought. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. Psychology uses the methods of scientific enquiry to address the question.

The areas of interest encompassed by the discipline of psychology include: how organisms perceive their environments; how they learn, adapt, and remember; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to motivating forces; how they are affected by the presence of other organisms in social settings; how their behaviour relates to their physiological functions; and how individuals and species differ from one another. Our course offerings in Psychology include all of these topics, covering how psychologists go about answering the important questions in each. and what we have learned about each.

The Specialist Programme in Psychology includes courses from each of the main sub-areas within the discipline. This Programme is intended both for students with a strong interest in the field and for those who wish to pursue graduate work in psychology after the first degree. Students considering graduate study should plan to include the thesis course (PSYD98Y) in their undergraduate programme.

The Major Programme in Psychology also is designed to introduce students to the main areas within the discipline. Students opting for this Programme generally do so because they are interested in a less intensive exposure to the field. Often, students desire to concentrate their studies in two areas, in which case a double Major Programme combining psychology with another discipline is ideal.

Students particularly interested in the relation of brain to behaviour should consider the Specialist or Major Programme in Neuroscience described earlier in this Calendar. Those particularly interested in the study of knowledge - language, communication and thought - may wish to consider the Major and Specialist Programmes in Cognitive Science described earlier.

Planning your Programme in Psychology

Students should be aware that the A, B, C, D course structure in Psychology dictates the sequence in which courses should be taken, but not the year of study in which a given course must be taken. That is, A, B, C, and D do not correspond to first, second, third and fourth year. As two examples, it is recommended that PSYB07F/S and PSYC08F/S be taken consecutively in the two terms of second year and that the same be done with PSYB60F/S and PSYC61F/S. Students should be aware that with the exception of PSY100Y and 200H, all other courses in the Faculty of Arts and Science correspond to B, C or D-level and all 400 series are considered D-level. Students are encouraged to plan carefully so that they will meet their educational objectives over the years of their degree. Discussions with the Supervisor of Studies can be very valuable in this regard.

Specialist Programme in Psychology

Supervisor: G. B. Biederman (Office S-560) The programme requires completion of 12.5 full- course equivalents, and fulfills the Programme requirements for the 4-year B.A. degree in Psychology.

The requirements for the B.Sc. degree are met by the addition of one further half-course (.5 full-course equivalent) in a science (including psychology) at the B-, C- or D-level.

A. 10.5 full-course equivalents in Psychology, as follows:

1 PSYA01Y Introduction to Psychology (1 full-course equivalent)

2 Statistical Methods (1 full-course equivalent)

(a) PSYB07F/S Data Analysis in Psychology

(b) PSYC08F/S Experimental Design in Psychology

3 Laboratory Methods (1 full-course equivalent)

(a) PSYB01F/S Psychological Research Laboratory and

(b) one half-course (.5 full-course equivalent) from among the following:

PSYC11F/S Social Psychology Laboratory

 PSYC26S Developmental Psychology Laboratory

PSYC34F/S Psychometric Methods Laboratory

- PSYC42F/S Learning Laboratory

- PSYC58F/S Experimental Psychology Microcomputer Laboratory
- PSYC63Y* Physiological Psychology Laboratory (*NOTE: Students selecting PSYC63Y also receive 0.5 course credit towards satisfaction of Requirement 6b or 7.)
- PSYB02S Scientific Communication in Psychology (.5 full-course equivalent)
 History and Theoretical Psychology
- (.5 full-course equivalent)
 (a) PSYC82F/S Theoretical
 - (a) PSYC82F/S Theoretical Psychology or
 - (b) PSYC85F/S History of Psychology
- 6 Courses at the B-level and/or C-level (3 full-course equivalents) Students are required to take one full-course equivalent at the B-level and/or C-level from each of the three content groups listed below:
 - (a) Social, Developmental and Personality courses (listed in the 10-, 20-, and 30-series);
 - (b) Learning and Physiology courses (listed in the 40- and 60-series);
 - (c) Perception, Language and Cognition courses listed in the 50-series).
 - Courses at the D-level (2 full-course equivalents)
 In selecting two full-course equivalents at the D-level, students may not include more than 1.5 full-course equivalents from any one of the content groups listed under 6a, 6b, or 6c.
 NOTE: STUDENTS MUST BALLOT FOR D-LEVEL COURSES; PLEASE READ THE INSTRUCTIONS BELOW.
 - Additional courses in Psychology (1.5 full-course equivalents)
 Students must choose 1.5 further full-course equivalents from any of the remaining courses in psychology. The choice is unconstrained. Specialists are encouraged to plan on enrolling in the thesis course (PSYD98Y) in their third or fourth year, particularly if they intend to pursue a career in Psychology or a related discipline.
- B. Other Disciplines (2 full-course equivalents)
 Students must select at least two full-course equivalents at the B-level or higher in a discipline or disciplines other than Psychology.

Major Programme in Psychology Supervisor: G. B. Biederman (Office S-560) The Programme requires completion of 6.0 full-course equivalents in Psychology and normally results in the 3-year B.Sc. degree, the student must take one additional fullcourse equivalent at the B-level or above in any science (including psychology).

- 1 PSYA01Y Introduction to Psychology (1 full-course equivalent)
- 2 PSYB01F/S Psychological Research Laboratory (.5 full-course equivalent)
- 3 PSYB07F/S Data Analysis in Psychology (.5 full-course equivalent)
- Courses at the B-level and/or C-level (1.5 full-course equivalents)
 Students are required to select one half-course (.5 full-course equivalent) at the B-level and/or C-level from each of the three content groups listed below:
 - (a) Social, Developmental and Personality courses (listed in the 10-, 20-, or 30-series);
 - (b) Learning and Physiology courses (listed in the 40- or 60-series);
 - (c) Perception, Language, and Cognition courses (listed in the 50-series).
- 5 Course at the D-level (.5 full-course equivalent) Students must choose one half-course (.5 full-course equivalent) from the D-level offerings in Psychology. NOTE: STUDENTS MUST BALLOT FOR D-LEVEL COURSES; PLEASE READ THE INSTRUCTIONS BELOW.
- 6 Additional courses in Psychology (2 full-course equivalents)
 Students must choose 2 further full-course equivalents from any of the remaining courses in Psychology. At least one full-course equivalent from these must be at the C- or D-level.

BALLOTING IN PSYCHOLOGY:

In March, students will be required to ballot for all D-level courses they wish to take the following year. Prerequisites for those Dlevel courses must be completed in advance of taking the D-level course. Ballots will be available from the Supervisor of Studies and from the Office of the Chair of Life Sciences. The completed ballot must be returned to one of these offices on or before April 30. Students will be notified via a ballot confirmation form in June of D-level courses in which they are permitted to register. No student may register in any Dlevel course without this confirmation form. (NOTE: For this confirmation to be valid, the student must register through the

Registrar's Office by the early-registration deadline.)

While admission to D-level courses in Psychology is restricted by balloting, both Majors and Specialists may take more than the required number of D-levels if space is available. The aim is to provide at least some small-group discussion courses in the Programme, and to assure that everyone has an opportunity to take these courses.

PSYA01Y Introduction to Psychology

Telephone ID #: 25710163
The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of how organisms, both human and infrahuman, perceive their environments, how their behaviour is modified by experience, and how their activities are instigated, sustained, and directed.

The physiological basis of behaviour, particularly the functioning of the nervous system; learning and the importance of past experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; personality, and abnormalities of behaviour and experience.

Exclusion: PSY100Y, PSY200H
Session: Summer Evening, Winter Day, Winter Evening
The Faculty

PSYB01F Psychological Research Laboratory

Telephone ID #: 25720133 The intent is to present the principles of the scientific method as they apply to experimental psychology. Using examples from a variety of research areas in Psychology, 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 survey the entire range of experimental psychology. Research methods will be introduced in lectures and illustrated in laboratory exercises. This course is required for both the Major and the

Specialist Programmes, and provides the basic skills necessary to take the other laboratory courses in psychology. Prerequisite: PSYA01 Session: Summer Evening, Winter Evening G. Biederman

PSYB02S Scientific Communication in Psychology

Telephone ID #: 25720253 The purpose of this course is the development and enhancement of practical and professional skills based on current standard discourse in the field of psychology. The primary focus is on improving the student's ability to think, organize information and communicate clearly, critically and effectively within the discipline. Activities will be organized around the de-construction and construction of empirical studies, literature reviews and theoretical articles. Related skills often helpful for the production of sound arguments and communication, such as aspects of computer literacy and strategies for literature search, will be incorporated into the course.

This course is limited to students enrolled in the Psychology Specialist Programme, and is recommended to be taken in the student's second year.

Prerequisite: PSYB01, PSYB07

Session: Winter Evening

D. Bors

PSYB07F Data Analysis in Psychology

Telephone ID #: 25720733

Data reduction techniques: frequency distributions, measures of central tendency and variability, linear transformations, correlation and regression; and hypothesis testing procedures based on the binomial, chi-square, normal, and t distributions.

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. Four hours of lecture and one hour of tutorial per week.

Exclusion: ANTC35, (BIOB28), (ECOB11), ECOB09, ECOB10, GGRB31, STAB22, STAB47, SOCB06, PSY201H Session: Summer Evening, Winter Day

B. Forrin

PSYB10F Introduction to Social Psychology

Telephone ID #: 25721033 Surveys social influence (conformity and obedience), prejudice, sexism, attitude change, group behaviour (crowding, crowd behaviour, panics), aggression, cooperation and competition, nonverbal communication, person perception, attraction and emotions.

Social Psychology focuses on the problem of how human behaviour is influenced by the presence of others. The course is designed to demonstrate phenomena of social behaviour and to present theories and research evidence relating to these phenomena. Exclusion: PSY220H Prerequisite: PSYA01 Session: Winter Day J. Bassili

PSYB20F Introduction to Developmental Psychology

Telephone ID #: 25722033 Developmental processes during infancy and childhood.

This course presents students with a broad and integrative overview of child development. Major theories and research findings will be discussed in order to understand how the child changes physically, socially, emotionally, and cognitively with age. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life-span development.

Three lecture hours per week. Exclusion: PSY210Y Prerequisite: PSYA01 Session: Winter Day M. Schmuckler

PSYB30S Personality

Telephone ID #: 25723053 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 behavioural psychology, cognitive psychology and artificial intelligence, psychoanalysis, and transpersonal psychology.

The aim of this course is to acquaint the student with the diversity of theoretical assumptions and research methods with which basic questions about human nature

have been approached. Readings are from primary sources.

Exclusion: PSY230H Prerequisite: PSYA01 Session: Winter Day

A. Kukla

PSYB32F Abnormal Psychology

Telephone ID #: 25723233 Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints in the development of hypotheses, model and theory, including genetic, physiological, stress, medicalpsychiatric, psychoanalytic, sociallearning, and sociological; classification systems, including problems in their reliability and validity; description of a variety of neuroses, psychoses, and other behavioural disorders of adults and children, including cognitive, emotional, sensoryperceptual, psychomotor, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behaviour within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

The conceptual problem of defining abnormality and categorizing its varieties will be emphasized. Exclusion: PSY240H Prerequisite: PSYA01

Session: Summer Evening, Winter Evening S. Zeitlin

PSYB45F Behaviour Modification: Origins and Applications

Telephone ID #: 25724533

A survey of attempts to understand and regulate human behaviour in non-laboratory settings founded on principles derived from the learning and conditioning laboratory. A critical analysis of current applications and systems of behaviour modification and control.

Philosophical underpinnings; basic concepts and models of behavioural change; research strategies; operant procedures; reinforcement schedules, extinction, shaping, self-reinforcement, fading, chaining, instructions, the token economy, behavioural contracting, biofeedback, punishment and its side effects; cognition and behaviour therapy, attribution, placebo effects, cognitive therapy, rational-emotive therapy, thought stopping, problem-

solving, modeling; establishment of new behaviours, fear extinction, assertive training; treatment of depression; systematic desensitization; treatment of anxiety; aversive counterconditioning; treatment of alcohol and drug abuse. Exclusion: PSY361 Prerequisite: PSYA01 Session: Winter Evening F. Klajner

PSYB50F Sensation and Perception Telephone ID #: 25725033

The physics, mathematics and physiology of processes underlying perception, emphasizing the energies involved in different senses.

Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity; colour; 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.

Exclusion: PSY280Y Prerequisite: PSYA01 Session: Winter Evening

PSYB51S Perception and Cognition Telephone ID #: 25725153

Theory and empirical research on visual and tactile perception, representation, and communication.

Topics include the ecological approach to perception and depiction in the handicapped and normal perceiver, perceptual information and projection, illusion, perspective, shadow patterns; possible and impossible scenes, human and computer scene-analysis, ambiguity in perception, perception of objects and images, outline representation. The empirical research is on adults and children, and different species. Demonstrations and exercises form part of the course work. Exclusion: PSY280Y Prerequisite: PSYA01 Session: Winter Evening J. Kennedy

PLIB55F Psycholinguistics

Telephone ID #:34825533 Experimental evidence for theories of how humans produce and understand language. and of how language is represented in the mind. Topics will include the perception and categorization of speech sounds, retrieval of words from memory during

speech and listening, use of grammatical knowledge in planning and understanding sentences, production and comprehension of longer stretches of discourse, and the role of memory systems in language processing. Exclusion: (JLPB55S), JLP374H Prerequisite: One FCE in LIN and one FCE in Session: Winter Day R. Smyth Offered every year

PSYB57S Memory and Cognition

Telephone ID #: 25725753 Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, and their role in a general model of information processing.

Three lecture hours per week. Exclusion: PSY270Y, PSY372H Prerequisite: PSYA01 Corequisite: PSYB07 Session: Winter Day C. MacLeod

PSYB60F Brain Mechanisms and Behaviour: I

Telephone ID #: 25726033 The relation between behaviour and the structure and function of the nervous system. Topics covered include: neuroanatomy, structure and function of neurons, neurochemistry and neural mechanisms and movement.

The objective is to give the student a firm grasp of the structure and function of the nervous system and its role in the behaviour of an organism. Neuroanatomy, structure and function of neurons, neuropharmacology, and neural mechanisms of sensation and movement.

Three hours lecture and one hour lab or tutorial per week. Exclusion: PSY290Y Prerequisite: PSYA01; PSYB65 is recommended for students with no Biology background. Session: Winter Day N. Milgram

PSYB65F Human Brain and Behaviour

Telephone ID #: 25726533

An examination of the neurological basis of human behaviour: an introduction to human neuropsychology.

The course focuses on the following: higher brain function in humans;

hemispheric specialization, neuropsychology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, senility, frontal lobe syndrome, neglect, and speech disorders); psychopharmacology and drugs of use and abuse; and the biological basis of psychiatric disorders.

Three hours of lecture per week. Prerequisite: PSYA01 Session: Winter Day

T. Petit

PSYC08S Experimental Design in Psychology

Telephone ID #: 25730853

The analysis of variance as a research tool and the rationale and mechanics of its application to a variety of experimental designs: simple randomized, repeated measures, factorial. Additional topics discussed include: homogeneity of variance, multiple comparisons, trend analysis.

The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students contemplating supervised individual research in Psychology.

Three hours of lecture and one hour of tutorial per week.

Exclusion: STAC52, PSY202H

Prerequisite: PSYB07, (BIOB28), STAB22 or STAB47 plus one additional B-level half-course in PSY.

Session: Summer Evening, Winter Day D. Bors

PSYC11F Social Psychology Laboratory Telephone ID #: 25731133

Introduces conceptual and practical issues concerning research in social psychology, and provides experience with several different types of research.

This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). Discussion and laboratory work. Limited enrolment: 25.

Exclusion: PSY329H

Prerequisite: PSYB01, PSYB07, PSYB10

Session: Winter Day

K. Dion

PSYC12S Advanced Social Psychology Telephone ID #: 25731253

Telephone ID #: 25731253

A detailed examination of selected social psychological topics introduced in PSYB10.

Attitudes play a central role in our social lives. This course examines the nature of attitudes, their development, organization and change. Practical issues such as the measurement of attitudes and the relation 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.
Exclusion: PSY320H
Prerequisite: PSYB07, PSYB10 plus one additional B-level half-course in PSY
Session: Winter Day
J. Bassili

PLIC24S Developmental Psycholinguistics Telephone ID #: 34832453

Descriptions of children's pronunciation, vocabulary and grammar at various stages of learning their first language, and theories of the linguistic knowledge and cognitive processes that underlie and develop along with language learning.

Exclusion: (JLPC24S), JLP315H Prerequisite: One FCE in LIN and one FCE in PSY, and one B-level FCE in either LIN, PSY or PLI (ILP)

PSY or PLI (JLP) Session: Winter Day R. Smyth Not offered 1993/94 Offered 1994/95

PSYC26S Developmental Psychology Laboratory

Telephone ID #: 25732653 This course introduces conceptual and practical issues concerning research in developmental psychology, providing experience with different types of developmental research methodology. Developmental psychology focuses on the process of change within and across different phases of the life-span. Reflecting the broad range of topics in this area, there are diverse research methods. These methods include techniques for studying infants' behaviour (habituation, operant conditioning procedures) as well as procedures for studying development in children, adolescents, and adults (such as the Piagetian interview method, behavioural observation, questionnaires). This course will cover a representative sample of some of these approaches. Also, consideration of issues concerning research design as it applies to developmental issues will be included. Limited enrolment: 24. Exclusion: PSY319Y
Prerequisites: PSYB01, PSYB07, PSYB20
Session: Winter Day
M. Schmuckler

PSYC42S Learning Laboratory Telephone ID #: 25734253

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 behaviour. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.

The course provides theoretical and empirical experience relevant to basic concepts and current problems in learning and motivation.

Exclusion: PSY260Y, PSY359H, PSY369Y Prerequisite: PSYB0l, PSYB07 (or equivalent)

Session: Winter Day G. Biederman

PSYC45S Applied Psychology of Learning Telephone ID #: 25734553

The purpose of this course is to present principles of scientific psychology in relation to selected areas in the applied psychology literature and to review the logic and validity of modern applied learning techniques and measurement strategies in these areas: e.g. remediation strategies in atypical subject populations (e.g. autistic, MR, learning disabled). Cognitive, Piagetan, and operant approaches will be considered, with the emphasis on the experimental literature rather than on testing.

Course emphasizes critical evaluation of the literature and will have essay examinations and one major paper as a course requirement.

Prerequisites: PSYB01, PSYB07. PSYB45, PSYC34 and PSYC42 also recommended. Session: Winter Day G. Biedennan

PSYC54S Cognition and Representation Telephone ID #: 25735453

Recent theories of perception and representation relevant to skill in the use of pictures and language.

Topics may include making and interpreting metaphors, recognizing cross-modal equivalence, learning how to draw and symbolize, and effects of perceptual and cognitive handicaps on the development of

skills with patterns normally found in vision and audition. The research to be considered will emphasize studies on the blind, and child development.

Teaching method includes lectures and student presentations.
Prerequisite: PSYB07, a PSYB20-series or a PSYB50-series half-course in PSY Session: Winter Day

J. Kennedy

PSYC58F Experimental Psychology Microcomputer Laboratory

Telephone ID #: 25735833

Examination of the widespread impact of computers in experimental psychology. This laboratory course emphasizes the use of microcomputers in preparing, controlling, and analyzing experiments. Students will learn a simple programming language, and will have considerable "hands-on" experience with laboratory microcomputers. The aim is to develop the skills necessary to program experiments in psychology, with particular emphasis on research in cognition.

The teaching method will consist of lectures on using the computer as a tool for psychological research, and lectures on the programming language. No previous computer experience is expected or required. Limited enrolment: 20. Exclusion: PSY306H and any course in Computer Science

Prerequisite: PSYB01, PSYB07 (or equivalent)
Session: Winter Day
C. MacLeod

PSYC61S Brain Mechanisms and Behaviour: II

Telephone ID #: 25736153

A continuation of PSYB60, emphasizing motivation and learning. Topics covered under the category of motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered under learning include: physiological processes and memory, structural basis of learning and memory, biochemistry and memory.

The course is designed to provide students with an understanding of the physiological substrates underlying behaviour.

Three hours of lecture per week. Exclusion: PSY290Y
Prerequisite: PSYB60, plus one other B-level half-course in PSY; PSYB07 and PSYC08 are recommended.
Session: Winter Evening
N. Milgram

PSYC63Y Physiological Psychology Laboratory

Telephone ID #: 25736363

Instruction in a variety of techniques used in investigations of nervous system function. The course is mainly intended for students who are pursuing a Specialist Programme in the Neurosciences.

The procedures covered may include: (i) histology (preparing, cutting and staining neural tissue); (ii) lesioning specific regions of the central nervous system; (iii) behavioural techniques; (iv) electrical stimulation of the brain; (v) electrophysiological recording techniques.

Two hours of lecture and three hours of scheduled laboratory work per week. Students will also be required to spend additional hours working in the student laboratory. The course involves a series of three to five laboratory projects. Exclusion: PSY399Y Prerequisite: PSYA01 and permission of instructor Corequisite: PSYB60, PSYC61; PSYB07 and PSYC08 are recommended Session: Winter Day

PSYC64S Psychobiology of Sensory Systems and Their Development

T. Petit/J. Mendelson

Telephone ID #: 25736453 This course will focus on the mechanisms by which the nervous system processes sensory information and how these sensory circuits can be modified during development. The neural substrates of sensory transduction, as well as transmission and integration along organized pathways will be examined. Experimental and genetic manipulation of sensory systems during development will be used to illustrate how genetic, environmental, and experiential factors can alter the structure and function of the nervous system. The topics covered under development include embryonic development, developmental plasticity (including effects of environment and experience on brain structure) and aging. The topics included under sensory systems are: receptor mechanisms, organization and sensory physiology of each of the sensory systems (olfaction, visual, somatosensory. auditory, vestibular), and models of sensory processing.

Three hours of lecture per week. Prerequisite: PSYB60 Session: Winter Day J. Mendelson

PSYC82F Theoretical Psychology

Telephone ID #: 25738233 An introduction to the problems and methods of theoretical analysis in

psychology

The emphasis of the course is on developing sophistication in the techniques of theoretical analysis. The aim is to enable the student to read and evaluate the current literature in theoretical psychology. Exclusion: PSY301H Prerequisite: PSYB07 or permission of

instructor

Session: Winter Day

A. Kukla

PSYC85F History of Psychology

Telephone ID #: 25738533

A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century. Twentieth Century schools of psychology are discussed, including functionalism, structuralism, Gestaltism, Phenomenology, Behaviourism and Cognitivism. The course is designed for students who want to integrate their knowledge of the different areas of psychology and offers good preparation for graduate school.

This course examines changes in the treatment of three basic problems: mindbody, epistemology (the science of knowledge) and behaviour ethics. We begin with the ancient Greek philosophers who established the foundations of Western thought and science. The contributions of European philosophers and scientists (both physical and natural) from the Fifteenth through Nineteenth Centuries are then discussed. Topics also considered include: the process of paradigm or theory change in science and the relative contribution of individual genius and Zeitgeist or intellectual climate to scientific developments. Limited enrolment: 25. Exclusion: (PSYD85), PSY300H Prerequisite: Two B-level half-courses in Psychology Session: Winter Day G. Cupchik

PSYC90F/S/H PSYC93F/S/H Supervised Study in Psychology

A reading or research project.

These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in fields where these are available. The student must

demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will culminate in a written submission. Exclusions for PSYC90: NROC90, PSY303H, PSY304H Exclusions for PSYC93: NROC93, PSY303H, PSY304H Prerequisite: Three FCEs in Psychology; permission of instructor. Session: Summer Day, Summer Evening, Winter Day, Winter Evening Supervision by a faculty member

PSYD15F Current Topics in Social **Psychology**

Telephone ID #: 25741533 An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 15. Exclusion: PSY420H Prerequisite: PSYC11, PSYC12 or PSYB10

plus one C- level half-course in PSY Session: Winter Evening J. Bassili

PSYD16F Critical Analysis in Social Psychology

Telephone ID #: 25741633 Progress in psychology is predicated on developments in both theory and methodology. The primary goal of the course is to enhance skills for critically analyzing both domains in Social Psychology. European and North American approaches to criticism are compared. Evolutionary and revolutionary models of development are contrasted. Disciplinary and professional aspects of social psychology are discussed in relation to scientific progress. Special emphasis is placed on social and personality factors which shape theory construction and validation. Examples are drawn from both cognitive and motivational approaches to social phenomena. Finally, the analogy between Piaget's account of intellectual development in the child and developments in social psychology is considered. Limited enrolment: 15.

Exclusion: PSY420H

Prerequisite: PSYC11 or PSYC12 or PSYB10 plus one C-level half-course in

Session: Winter Day

G. Cupchik

PSYD18F Psychology of Gender

Telephone ID #: 25741833

This course focuses on theory and research pertaining to gender and gender roles. The social psychological and socialdevelopmental research literature concerning gender differences willbe critically examined. Other topics also will be considered, such as gender-role socialization. Teaching method: seminar. Limited enrolment: 15.

Exclusion: PSY323H

Prerequisite: PSYB10 plus two C-level half-

courses in PSY

Session: Winter Day

K. Dion

K. Dion

PSYD22S Socialization Processes Telephone ID #: 25742253

The processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g., development of specific social behaviours) and the context in which it occurs (e.g., family, peer group, etc.). Material will be drawn from both social and developmental psychology. Limited enrolment: 15. Exclusion: PSY311H, PSY410H Prerequisite: PSYB10 and PSYB20 plus one C-level half-course in PSY Session: Winter Day

PSYD33S Current Topics in Abnormal Psychology

Telephone ID #: 25743353

An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year. Limited enrolment: 15. Exclusion: PSY440H Prerequisite: PSYB32 plus one C-level half course in PSY Session: Winter Day S. Zeitlin

PSYD50S Current Topics in Memory and Cognition

Telephone ID #: 25745053 An intensive examination of selected topics. The specific content will vary from year to year. Limited enrolment: 15 Exclusion: PSY470H, PSY471H Prerequisite: PSYB57 plus one C-level half

course in PSY

Session: Summer Evening, Winter Evening

PSYD53F Psychology and the Law

Telephone ID #: 25745333

The course will focus on the application of psychology to the law, particularly the perceptual and memorial processes which influence the giving of testimony. Limited enrolment: 15.

Exclusion: PSY325H

Prerequisite: a B50-series half-course plus one C- level half-course in PSY

Session: Winter Day

M. Smith

PSYD60F Current Topics in Physiological Psychology

Telephone ID #: 25746033

An intensive examination of selected issues and research problems in comparative and physiological psychology. Limited

enrolment: 15. Exclusion: PSY390H Prerequisite: PSYC61 Session: Winter Day J. Mendelson

PSYD62S Neuroplasticity: Mechanisms and Function

Telephone ID #: 25746253

Neuroplasticity refers to the modification of neural tissue in response to experience which provides the foundation for learning, memory, and other complex mental processes. This course will explore the mechanisms underlying neuroplastic change and its functional significance. There are two major goals: (1) to survey and critically discuss the most important contemporary research on neuroplastic processes; (2) to provide the necessary background so that students are capable of giving a sophisticated answer to the question of what changes occur in the nervous system during learning and memory and what mechanisms underlie these changes. Limited enrolment: 15. Prerequisite: PSYB60, PSYC61 Session: Winter Day N. Milgram

PSYD808 Current Topics in Theoretical Psychology

Telephone ID #: 25748053

An intensive examination of selected issues in theoretical psychology. The specific content will vary from year to year. Limited enrolment: 15

Prerequisite: PSYC82 Session: Winter Day

A. Kukla

PSYD98Y Thesis in Psychology

Telephone ID #: 25749863

This course offers the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others, and to discuss the results of their investigation.

Students will meet as a group with the coordinator as well as individually with the supervisor. This course is restricted to qualified Specialists in Psychology. Students planning to pursue graduate studies are especially encouraged to enrol in the course.

Exclusion: NROD98, PSY400Y

Prerequisite: PSYB01, PSYB07, PSYC08,

Psychology Specialist Session: Winter Day Co-ordinator: C. MacLeod

Courses Not Offered in 1992-93

PSYC21F Advanced Developmental
Psychology
Exclusion: PSY210Y
Prerequisites: PSYB20 plus
one additional B-level half
course in PSY
PSYC34S Psychometric Methods

4S Psychometric Methods Laboratory Exclusion: PSY330H Prerequisites: PSYB01, PSYB07 (or equivalent)

PSYD20S Current Topics in
Developmental Psychology
Exclusion: PSY410H
Prerequisites: PSYC21 or
PLIC24 or PSYB20 plus one

PSYD32S C-level half-course in PSY
Abnormal Child Psychology
Exclusion: PSY341H,

PSY440H

Prerequisites: PSYB32; PSYC21 or PSYB20 plus one C-level half-course in PSY

PSYD34S Human Intelligence Prerequisites: PSYB01 and PSYB07. PSYC08 and PSYC34 are recommended PLID55F Disorders of Speech and Language

Exclusion: (JLPD55F)
Prerequisites: One FCE in LIN
and one FCE in PSY, and one
C-level FCE in LIN, PSY or

PLI (JLP)
PSYD67S Psychobiol

7S Psychobiology of Aging Prerequisite: PSYB60

Russian

Discipline Representative:
C. V. Ponomareff (287-7166)
A millenium has shaped Russia's destiny.
Today she is a major world power. It is especially important for us to understand her culture and her historical and cultural impact on Western society. Interested students should consider the courses listed below. Elementary and intermediate courses in language are currently not offered, but students with a reasonable knowledge of the language may read the texts in the original in the supervised reading courses RUSCO2H-CO5Y.

HUMB06F/S Russian Shorter Fiction of the 19th and 20th Centuries HUMB07F/S Russian Culture
HUMB42Y The Modernist Adventure
HUMB44F/S Disaster and the Literary Imagination
HUMB46F/S The Individual and the Totalitarian State
HUMB58Y The Nineteenth-Century Russian Novel, 1830-1880
HUMC53F/S Beyond Nihilism: Visions of Renewal

RUSC02H RUSC03H RUSC04H

RUSC05Y Supervised Reading

Supervised reading courses are designed for individual students who wish to pursue specific lines of interest in Russian language and/or literature. Classes meet every other week and students are expected to write a research paper or examination on their selected topic of work.

Prerequisite: At least two years of Russian

Prerequisite: At least two years of Russian language or permission of instructor.

Major Programme in Society, Values and Medicine

The Major Programme in Society, Values and Medicine is no longer offered. Students currently registered in the Programme will be allowed to complete it.

Sociology

Discipline Representative: A. Sev'er (287-7296)

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of co-operation, competition, and conflict.

Students may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist or

Major Programme.

The introductory course, SOCA01, is intended to familiarize students with the special theories, methods and questions of sociology as a part of a liberal education. In addition, the SOCA01 course provides a minimum background of knowledge about sociology, and hence is a prerequisite to many of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection and provide informal advising. There are no formal requirements for these special areas and they will not be designated on diplomas.

The faculty advisers for special areas of concentration are: Social Work - TBA

Urban Studies - Prof. J. Hannigan Education - Prof. J.A. Lee

Specialist Programme in Sociology

Supervisor: S. Ungar 287-7299
The Programme requires completion of ten full-course equivalents as described below.

No more than fourteen full-course equivalents in Sociology may be included in a 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 Two full-course equivalents at B-level in Sociology

6 SOCCOSÝ Contemporary Social Theory

7 One and a half full-course equivalents at C-level

8 One full-course equivalent at D-level

9 One other B or C-level full course in Sociology

Major Programme in Sociology Supervisor: S. Ungar 287-7299 The Programme requires completion of seven full-course equivalents in Sociology including:

1 SOCĂ01Y Introduction to Sociology 2 SOCB01Y Methods in Social

Research
3 SOCB06F Social Statistics

4 SOCB03Y History of Social Thought

5 Three and a half full-course equivalents in Sociology, at least one and a half of which must be at the C level

SOCA01Y Introduction to Sociology

Telephone ID #: 28610163
An introduction to the basic concepts, principles and methods of sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions and social change. Exclusion: SOC101
Session: Winter Day, Winter Evening, Summer Evening
S. Ungar, J. Lee, M. MacKinnon

SOCB01Y Methods in Social Research Telephone ID #: 28620163

The course will be divided into three basic units. It will start with a critical overview of the logic and methods of social scientific research. Topics will include the logic of research, research design and causal analysis, and methods of data collection. Once the fundamentals have been covered, an effort will be made to teach students how to "read" and critically evaluate research reports. Several studies will be examined in detail, and then students will be given the

opportunity to do their own evaluations. The final goal will be to provide some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses. Exclusion: SOC200 Prerequisite: SOC A01Y Session: Winter Day A. Sev'er, P-C. Hsiung

SOCB02Y Structure of Interpersonal Relations

Telephone ID #: 28620263 Patterns of interaction and influence in interpersonal relations. The course begins with a consideration of the problem of social order; i.e., how do we constrain individual desires and induce people to act morally. We will also examine the problem of the "absurd", using Camus' Outsider. This will be followed by an examination of impression management and exchange theories. Special attention will be given to the role of other persons in "altercasting" our behaviour, with examples drawn from research on mental illness and stereotyping. Other topics include status and power relations in small groups, social influence processes, and the social psychology of class, sex and race relations. Exclusion: SOC202 Prerequisite: SOCA01Y Session: Winter Day J. Lee

SOCB03Y History of Social Thought

Telephone ID #: 28620363 A study of the development of social thought from the ancient periods to contemporary sociology. The focus will be on the ideas of those thinkers who have historical significance and contemporary relevance. The course begins with a basic discussion of the nature and types of social thought. It will then look at the ideas on society in Ancient China, Greece and Rome, and the Medieval times. It will then analyze the beginnings of modern social thought with special emphasis on the emergence of sociology and the work of such theorists as Comte, Marx, Durkheim, Spencer, Simmel and Weber. Finally, contemporary schools of sociological theory will be considered. Exclusion: SOC203

Prerequisite: SOCA01Y Session: Winter Day M. Hammond

SOCB05Y Urban Sociology Telephone ID#: 28620563

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). Exclusion: SOC205
Prerequisite: SOCA01Y
Session: Winter Day
J. Hannigan

SOCB06F Social Statistics

Telephone ID #: 28620633 A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of common statistical tests. Statistics is a basic tool used by sociologists. An understanding of statistics is necessary for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises. This course is intended to supplement SOCB01. Exclusion: ANTC35, ECOB11, PSYB07, STAB22, SOC201

STAB22, SOC201
Prerequisite: SOCA01Y
Session: Winter Day
S. Ungar

SOCB10Y Social Class and Social Stratification

Telephone ID #: 28621063
Description and analysis of the nature of social stratification with emphasis on the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems, social classes and associated behaviour; social mobility; and class conflict.

Exclusion: SOC301 Prerequisite: SOCA01Y Session: Winter Day M. Hammond

SOCB12Y Sociology of the Family Telephone ID #: 28621263

The sociological study of the family in contemporary Western society. At a micro level, the focus is on the family as a small group, emphasizing the family life cycle, member roles, interaction patterns and interpersonal problems in family relations. At a macro level, the focus is on the family

in its community, institutional and historical setting, emphasizing the various social factors which affect family life and its changing nature.

Exclusion: SOC214, SOC302

Prerequisite: SOCA01Y

Session: Winter Day

P-C. Hsiung

SOCB18Y Sociology of Deviant Behaviour

Telephone ID #: 28621863
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.

Exclusion: SOC212 Prerequisite: SOCA01Y Session: Winter Evening

TBA

SOCB20Y Ethnic and Race Relations

Telephone ID #: 28622063
A study of the structure and processes in a society made up of a variety of ethnic and racial groups. The focus will be on Canada. The course will study ethnic stratification immigration, prejudice and discrimination, ethnic social mobility and ethnic conflict, assimilation and ethnic identity retention, and the problem of integration of society. Specific topics will include: conflict of generations, stereotyping, Canadian bilingualism and multiculturalism and others.

Exclusion: SOC210 Prerequisite: SOCA01Y

Session: Winter Day, Summer Evening

SOCC01S Sociology of Revolution Telephone ID#: 28630153

The phenomenon of revolution as defined, described and analyzed from comparative and historical perspectives. Specific casestudies are utilized in order to explain the causes and courses of revolutionary leadership, mobilization, and strategy. Particular attention is paid to revolution as both cause and effect of major social change.

Prerequisite: SOCA01Y, SOCB03 and one other B-level full-course equivalent in Sociology or permission of instructor Session: Winter Day

R. O'Toole

SOCC05Y Contemporary Social Theory Telephone ID #: 28630563

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.

Exclusion: SOC313

Prerequisite: SOCB03Y and one other Blevel full- course equivalent in Sociology Session: Winter Day, Summer Evening R. O'Toole

SOCC10S Sex, Self and Society

Telephone ID #: 28631053 The single most important influence on our behaviour is being male or female. Gender is built into how our institutions are put together, how we are socialized, and how opportunities and access to scarce resources are structured. This course is a sociological examination of gender as category of analysis, research and social experience. It will focus on the social construction of gender, gender ideology, the impact of gender on the individual and the social structure, the maintenance of gender inequality in the labour force, in the family, in education and in social interaction. Exclusion: SOC365

Prerequisite: SOCA01 and SOCB12; or permission of instructor. Session: Winter Day

SOCC16S Sociology of Conflict and Cooperation

Telephone ID #: 28631653 This course will first examine the functions of conflict, especially the use of conflict in the creation of moral dramas (i.e., of good vs. evil, of heroes and of villains). We will examine the conflict between persons and

nature; and, in greater detail, the Cold War and the Arms Race. Lectures and films will be used.

Prerequisite: SOCA01Y and SOCB04 or SOCB10 or SOCB20; or permission of instructor.

Session: Winter Day S. Ungar

SOCC18F Sociology of Art and Culture

Telephone ID#: 28631833 A seminar on the production and appreciation of art and culture in various societies. Lectures and discussions will focus on literature, film and painting, but students may choose from any form of "high culture" for special research.

Exclusion: (SOCC18Y) Prerequisite: SOCA01, SOCB03 and one other B-level full-course equivalent in Sociology or permission of instructor.

Session: Winter Day R. O'Toole

SOCC19S Sociology of Knowledge Telephone ID#: 28631953

The sociology of knowledge as a social process.

Prerequisite: SOCA01, SOCB03 and one other B-level full-course equivalent in Sociology; or permission of instructor. Session: Winter Day

J-L. deLannoy

SOCC22F Qualitative Methods in Social Research

Telephone ID #: 28632233

The use of non-statistical methods for systematic analysis of social behaviour. Each student will develop craftsmanship in participant observation, ethnography, and sociohistorical methods by completing first-hand observation and analysis. Prerequisite: SOCA01Y and one B-level course in Sociology. Session: Winter Day J. Lee

SOCC24S Changing Family Life in Canada Telephone ID #: 28632453

Examination of the major changes in the structure of the family in Canada, and its consequences for family life. Prerequisite: SOCA01, SOCB12 and one other B-level full course in Sociology. Session: Summer Evening R. James

SOCC26F Sociology of Urban Growth Telephone ID#: 28632633

An in-depth examination of the conditions, patterns and consequences of urban growth and development. Major topics will include the emergence of new urban institution (legal, political, economic) and the formation and operation of urban social networks.

Prerequisite: SOCA01, SOCB05 and one other B-level full-course equivalent in Sociology.

Session: Winter Day J. Hannigan

SOCC29S Variant Family Forms

Telephone ID #: 28632933

A review and sociological analysis of nontraditional family forms and innovative life styles representing departures from conventional marriage and family patterns

in the 1970's. Included will be "singleness", "living together", androgeny 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: SÓCAÔ1, SOCB12 and one other B-level full-course equivalent in

Sociology Session: Winter Day, Summer Evening A. Sev'er

SOCC33Y Comparative Social Structure

Telephone ID #: 28633363

An examination of the institutional structure in different societies in order to develop a better understanding of the effects of structural variations on human behaviour.

Exclusion: SOC310

Prerequisite: SOCA01Y, and two B-level full-course equivalents in Sociology

Session: Winter Day J-L. deLannoy

SOCC35Y Social Change

Telephone ID #: 28633563

The accelerating rate of social change, the uneven rate of change in sectors of our society and between various societies throughout the world, and the consequent social crises, are evident in the daily media. A convincing analysis and explanation of social change is less obvious. This course will examine major themes of change, including industrialization, modernization, urbanization, automation, biogenetics, sexualization and militarization. We will examine competing theoretical models for analysis of social change, and arrange student research for first-hand study of interesting aspects of social change in Canada.

Prerequisite: SOCA01, SOCB03 and one other B-level full-course equivalent in Sociology or permission of instructor. Session: Winter Day

J-L de Lannoy

SOCC37F Environment and Society Telephone ID #: 28633753

This course links studies in the classical sociology of resources and territory (as in the works of Harold Innis, S.D. Clark, and the Chicago School), with modern topics in ecology and environmentalism. The course will include empirical research, and theoretical issues, in the relationship of various social systems to their natural environments.

Prerequisite: SOCA01Y and two B-level fullcourse equivalents in Sociology Session: Winter Day J. Hannigan

SOCD40F/S Supervised Independent. Research

Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report. Prerequisite: Completion of at least fifteen full-course equivalents in Sociology and permission of instructor.

Exclusion: SOC390, SOC391, SOC392 Session: Summer Evening, Winter Day, Winter Evening

Staff

SOCD41F/S Supervised Independent Research

Student research by field methods, survey analysis or library or archival research. Regular supervision of data collection and analysis, culminating in a research report. Prerequisite: Completion of at least fifteen full- course equivalents and permission of instructor.

Exclusion: SOC490, SOC491, SOC492 Session: Summer Evening, Winter Day, Winter Evening

Staff

SOCD42F Advanced Seminar in Sociological Theory

Telephone ID #: 28644233 Special topics in contemporary social theory, designed as a final year course for students taking a Specialist Programme in Sociology.

Exclusion: SOC440

Prerequisite: SOCB03 and SOCC05

Session: Winter Day

R. O Toole

SOCD43S Advanced Seminar in Research Methods

Telephone ID #: 28644353 Special topics in methodologies used in contemporary sociological research. Designed as a final year course for students taking a Specialist Programme in Sociology. Prerequisite: SOCB01 and SOCB06

Session: Winter Day

S. Ungar

Courses Not Offered in 1992-93

SOCB04Y

Political Sociology Exclusion: SOC204 Prerequisite: SOCA01Y

SOCB07Y	Small Groups	soco
	Limit: 12 Prerequisite:SOCA01	
SOCB26Y	Sociology of Education:	
SOCDEUI	Primary and Secondary	soce
	Levels	
	Exclusion: (SOCB24 and	
	SOCB25),SOC311	
	Prerequisite: SOCA01	
SOCB33Y	Sociology of Work and	SOCO
	Industry	
	Exclusion: (SOCC07 and	
	SOCC13), ŠOC207	
	Prerequisite: SOCA01	
SOCC02F/S	Research on Small Groups	
	Prerequisite: SOCB01 and	
	SOCB07	
	Prerequisite: SOCA01	
SOCC03F/S	Collective Behaviour	
	Prerequisite: SOCA01,	Spa
	SOCB03 and one other B-	~P
	level full-course equivalent	
	in Sociology or	Discip
000004840	permission of instructor	(287-7
SOCC04F/S	Social Movements	Studen
	Prerequisite: SOCA01,	wide r
	SOCB03 and one other B-	langua
	level full-course equivalent	C
	in Sociology or	and in
SOCC06F/S	permission of instructor Applied Sociology	prove
30CCV0F/3	Exclusion: SOC320	to their
	Prerequisite: SOCA01Y and	their to
	two B-level full-course	St
	equivalents in Sociology	Specia
SOCC11F/S	Sociology of Law and Law	should
	Enforcement	Studie
	Prerequisite: SOCB18Y	St
	and one other B-level full-	Literat
	course equivalent in	Superv
	Sociology	It
SOCC17F/S	Social Change in the Third	Spanis
	World	earlies
	Exclusion: SOC323	cohere
	Prerequisite: SOCA01Y and	Progra St
	two B-level full- course	Moder
00000	equivalents in Sociology	may sa
SOCC21Y	Sociology of Religion	• •
	Exclusion: (SOCB21)	require Progra
	Prerequisite: SOCA01,	Toront
	SOCB03 and one other B-	10.00.
	level full-course equivalent	Major
	in Sociology or	Lange
SOCC25Y	permission of instructor Comparative Ethnic and	Superv
50CC231	Race Relations	This p
	Exclusion: (SOCC25),	in Spa
	Prerequisite: SOCB20Y and	culture
	at least one more B-level	Seven
	full-course equivalent in	follow
	Sociology	SPAAG
	67	SPAA

SOCC28F/S	Sociology of Aging Prerequisite: SOCA01 and two B-level full-course
00000000	equivalents in Sociology
SOCC30F/S	Criminal Behaviour
	Prerequisite: SOCA01,
	SOCB18, and one other B-
	level full-course equivalent
	in Sociology
SOCC34Y	Sociology of Mass Media
	and Communications
	Prerequisite: SOCA01,
	SOCB03 and one other B-
	level full-course equivalent
	in Sociology or
	permission of instructor

Spanish

Discipline Representative: R. Skyrme (287-7147)

Students enrolling in Spanish are offered a wide range of courses in the Spanish language.

Courses in Humanities, Linguistics, and in other languages and literatures, may prove valuable to these students as adjuncts to their plan of study or as an enrichment of their total programme.

Students intending to enrol in the Specialist Programme in Modern Languages should consult the Calendar under Language Studies.

Students who wish to study Spanish Literature in the original may do so under Supervised Reading.

It is important that students enrolled in Spanish confer with the Supervisor at the earliest possible date in order to arrange a coherent and appropriately scheduled Programme.

Students in this Programme, or in the Modern Languages Specialist Programme, may satisfy some of their Programme requirements through the Study Elsewhere Programme operated by the University of Toronto in Granada.

Major Programme in Spanish Language

Supervisor: R. Skyrme (287-7147)
This programme offers a variety of courses in Spanish language, linguistics, and the culture of Spain and Spanish America.
Seven full-course equivalents are required as follows:

PAA01Y Introductory Spanish
PAA02H Introductory Spanish Language
Practice

SPAB01Y	Intermediate Spanish
SPAB02H	Intermediate Spanish Language Practice
SPAB04F	Phonetics
SPAB12S	History of the Spanish Language I
SPAB14F and	The Civilization of Spain I
SPAB15S or	The Civilization of Spain II
HUMC14Y	Topics in Latin American Culture and Literature
SPAC01Y	Advanced Spanish
SPAC21F	Stylistics and Translation
SPAC22F	History of the Spanish Language II

(Note: Students who have OAC Spanish or Grade 13 Spanish must complete, in place of SPAA01 and A02, one and one-half full course equivalents from SPA or HUM courses which concentrate on Spanish language, culture, or literature, to be arranged with the Supervisor.)

Language requirements will be waived by the Supervisor for students judged to have advanced knowledge of Spanish. Equivalent courses will be substituted in consultation with the Supervisor.

Minor Programme in Spanish Supervisor: R. Skyrme (287-7147) Four full-course equivalents are required in each of four variations of the Programme. Focus and linguistic emphasis vary with the level of students' language preparation:

1 Spanish Language
SPAA01Y Introductory Spanish
SPAA02H Introductory Spanish
Language Practice
SPAB01Y Intermediate Spanish
SPAB15S The Civilization of Spain II
(or another half course in
SPA on advice of
Supervisor)
SPAC01Y Advanced Spanish

2 Language and Hispanic Culture
Intended for students with OAC or Grade
13 Spanish or SPAA01Y and SPAA02H
or permission of Supervisor
SPAB01Y Intermediate Spanish
SPAB15S The Civilization of Spain II
SPAC01Y Advanced Spanish
SPAC21F Stylistics and Translation
(or another half course is
SPA on advice of
Supervisor)
HUMC14Y Topics in Latin American

Culture and Literature

3 Language and Hispanic Culture
Intended for native speakers or
permission of Supervisor
SPAB04F Phonetics
SPAB14F The Civilization of Spain I
SPAB15S The Civilization of Spain II
SPAC01Y Advanced Spanish
SPAC21F Stylistics and Translation
HUMC14Y Topics in Latin American
Culture and Literature

4 Latin America
Intended for Native Speakers or
permission of Supervisor
SPAB04F Phonetics
or
SPAC21F Stylistics and Translation
SPAC01Y Advanced Spanish
*ANTB03F The Americas: An
Anthropological
Perspective
*ANTC37S Prehistory of Mexico and
Mesoamerica
HUMC14Y Topics in Latin American
Culture and Literature
*SOCC17F Social Change in the Third
World

 Students should check these courses for prerequisites.

SPAA01Y Introductory Spanish Telephone ID #: 28710163

An elementary course for students with no knowledge of Spanish. Elements of Spanish grammar are studied and special emphasis is placed on oral practice.

This course stresses the development of the practical skills of understanding and speaking needed for the corequisite SPAA02H. Specially written dialogues are the working basis for both A01Y and A02H; the textbook is for reference only. Special classrooms provide a relaxed and friendly atmosphere. Students are also encouraged to use the Language Resource Room (R4104) to practise grammar and vocabulary skills with the help of specific computer programmes. Exclusion: OAC Spanish or Grade 13 Spanish; SPA100, SPA103 Corequisite: SPAA02 Session: Winter Day K. Gödde Offered 1993/94 and 1994/95

SPAA02H Introductory Spanish Language Practice

Telephone ID #: 28710243 Practical application of language structures introduced in SPAA01Y.

As with the corequisite SPAA01Y, a relaxed and friendly atmosphere is provided in specially equipped language classrooms. Classtime is devoted to conversing in Spanish. Students participate in language games, develop dramatic skits, and prepare dialogues and conversations based on situations and topics introduced in the dialogues of SPAA01Y.

Exclusion: OAC Spanish or Grade 13 Spanish; SPA100, SPA103 Corequisite: SPAA01 Session: Winter Day K. Gödde

Offered 1993/94 and 1994/95 SPAB01Y Intermediate Spanish

Telephone ID #: 28720163 A continuation of SPAA01Y.

The same format and methodology will be followed at a more advanced level. Three hours per week: one hour grammar; two hours oral practice.

Exclusion: SPA220

Prerequisite: OAC Spanish or Grade 13 Spanish or SPAA01 and SPAA02

Corequisite: SPAB02 Session: Winter Day P. Léon

Offered 1993/94 and 1994/95

SPAB02H Intermediate Spanish Language Practice

Telephone ID #: 28720243 A companion course to SPAB01Y.

Through reading material, composition, translation, and play-acting, this course forms an essential complement to the predominantly oral approach of SPAB01Y. Two hours per week in tutorial format.

Exclusion: SPA220

Prerequisite: OAC Spanish or Grade 13 Spanish or SPAA01 and SPAA02

Corequisite: SPAB01 Session: Winter Day

K. Gödde

Offered 1993/94 and 1994/95

SPAB04F Phonetics

Telephone ID #: 28720433 Articulatory phonetics; Spanish speech sounds; intensive practice in their production and transcription.

The objectives of the course are to develop good pronunciation of Castilian (with attention to variations in other dialects) and to provide an introduction to further linguistic work. Weekly lectures concentrate on the description and distribution of Castilian speech sounds and emphasize basic intonation patterns. In

tutorial hours students practise exercises in articulation, transcription, and dictation.

Exclusion: SPA223 Pre- or Corequisite: SPAA01

Session: Winter Day

R. Skyrme

Not offered 1993/94 Offered 1994/95

SPAB12S History of the Spanish Language I

Telephone ID #: 28721253

The languages of Spain, from pre-Roman

times to the Medieval period.

The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romance languages. A survey of the pre-Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of non-Classical texts (inscriptions, glosses, etc.). The main segment of the course deals with the evolution of the sound- and form-systems of Latin into Peninsular Romance, focusing on the growth of the Castilian dialect.

Exclusion: SPA223 Prerequisite: SPAB04 Session: Winter Day R. Skyrme Not offered 1993/94 Offered 1994/95

SPAB14F The Civilization of Spain I

Telephone ID #: 28721433

The events and personalities which shaped Spain from the eighth to the eighteenth centuries.

The main topics will include: hero and anti-hero in the medieval world--the Cid and Lazarillo; the Reconquest and religious intolerance--the Spanish Inquisition; the New World and its impact on the Old--Christopher Columbus; the rise and fall of the Spanish Empire--Charles V to Philip II; daily life in the Spanish Golden Age; the art of Velázquez. Weekly two-hour lectures and discussion are complemented by tapes, slides, and films. The course is taught in English.

Exclusion: (HUMB15), (HUMB09), (HUMC09); SPA250

Session: Winter Day

P. Léon

Not offered 1993/94 Offered 1994/95

SPAB15S The Civilization of Spain II Telephone ID #: 28721553

The events and personalities that have shaped Spain from the Romantic Age to the

present.

The main topics will include: Gova and his world: the Spanish Civil War--its causes, context, heroes, and aftermath: Lorca, Buñuel, and Dalí--a new vision of reality; Franco--forty years of dictatorship; the transition to democracy as seen in the popular culture of the seventies; present day Spain. Weekly two-hour lectures are complemented by tapes, slides and films. The course is taught in English. Exclusion: (HUMB15) (HUMB09) (HUMC09) SPA250 Session: Winter Day K. Gödde Not offered 1993/94 Offered 1994/95

SPAC01Y Advanced Spanish

Telephone ID #: 28730163 Intensive study of grammar and syntax; translation, composition, and oral practice.

Detailed examination of the subtleties of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. Three hours per week in lecture/tutorial format. Course required for Spanish Major, but open to all qualified students. Exclusion: SPA320

Prerequisite: SPAB01 Session: Winter Day R. Skyrme

Offered 1993/94 and 1994/95

SPAD01-D05F SPADO6-D10S

SPAD11-15Y Supervised Reading

Specific topics in Peninsular Spanish and Latin American literature, linguistics, and

Students who wish to enter the Spanish Supervised Reading programme should contact a particular instructor in the discipline to discuss a proposed topic. Students should have sufficient background in the area they want to study more closely, and they should provide a rationale for choosing a specific topic. They will be expected to read much of the material on their own, and to meet with their tutor once a week. The exact arrangements will depend on the nature of the texts and the level of ability of the students.

Exclusion: (SPAC02-C06), (C07-C10),

(C11-C15); SPA490

Prerequisite: SPAB01 Session: Winter Day

K. Gödde, P. Léon, R. Skyrme Offered 1993/94 and 1994/95

See also the following courses offered under

Humanities:

HUMB42Y The Modernist Adventure HUMB45S The Spanish Civil War: Fact

to Fiction

HUMC14Y Topics in Latin American

Culture and Literature

Courses Not Offered in 1992-93

SPAC21F Stylistics and Translation Exclusion: (SPAB21) Prerequisite: SPAB01 Offered 1993/94

Not offered 1994/95 SPAC22S History of the Spanish

Language II

Exclusion: (SPAB22); SPA425

Prerequisite: SPAB12 Offered 1993/94 Not offered 1994/95

SPAD16Y Golden Age Spanish Drama

Prerequisites: One B-level course equivalent in Drama and permission of the Instructor.

Not offered 1993/94

Statistics

Discipline Representative: M. Evans (287-7274)

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modelling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics and physics.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of experiments to determine the relative efficacies of different

STAB22F and STAB47S serve as an introduction to the discipline. The C-level courses build upon the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

Please refer to the Physical Sciences section of the Calendar for the following Programmes.

Specialist Programme in Computer Science and Statistics

Specialist Programme in Co-op Computer Science and Physical Sciences

Specialist Programme in Mathematics and Statistics

Major Programme in Mathematical Sciences (Statistics)

Major Programme in Statistics
The Major Programme in Statistics is no
longer offered. Students currently registered
will be allowed to complete it.

STAB22F Statistics

Telephone ID #: 28922233 This course is an introduction to probability and statistics. The emphasis of the course is on motivation and applications and the treatment is essentially non-mathematical. A statistical computer package is used for most computations; however, no previous experience with a computer is required. The course covers: descriptive statistics, probability and expectation, correlation and regression, sampling, experimental design and methods of statistical inference. Exclusion: ANTC35, BIOB28, ECOB11, GGRB31, PSYB07, SOCB06, (STAB52), STA222

Session: Winter Day

STAB47S Introduction to Probability Theory and Mathematical Statistics Telephone ID #: 28924753

This course is an introduction to the mathematical theory of probability and statistics. The course covers: probability models, marginal and conditional probability, expectation, the Weak Law of Large Numbers and the Central Limit Theorem, statistical models, the likelihood function, estimation, hypothesis testing, linear models.

Exclusion: STA242, 262 Prerequisite: STAB22 or one of its exclusions and MATHB41

exclusions and MATHB41 Session: Winter Day STAC57S Time Series Analysis Telephone ID #: 28935753

An overview of methods and problems in the analysis of time series data. Topics covered include descriptive methods, filtering and smoothing time series, identification and estimation of time series models, forecasting, seasonal adjustment, spectral estimation. Instruction in the use of SAS.

Exclusion: STA457 Prerequisite: STAC62F

STAC62F Stochastic Processes

Telephone ID #: 28936233
This course continues the development of probability theory begun in STAB47S.
Topics covered include Poisson processes, Gaussian processes, Markov processes, renewal theory, queuing theory, martingales and stochastic differential equations.

Exclusion: STA347 Prerequisite: STAB47S

Courses Not Offered in 1992-93

STAC42S	Multivariate Analysis Exclusion: STA437 Prerequisite: STAC67
STAC52S	Experimental Design
STAC67F	Prerequisite: STAB47S Regression Analysis Exclusion: STA302
	Prerequisite: STAB47

Women's Studies

Discipline Representative: D. M. James (287-7170)

Women's Studies examines women's roles, women's work, and women's contributions past and present to society. Because men have been the more dominant gender, the bulk of past scholarship has reflected a male perspective on the world and has focused on the activities and experiences of men; Women's Studies seeks to redress this balance by providing a perspective on women's activities and experiences. This examination is interdisciplinary in nature, drawing upon work in such areas as Anthropology, English, Fine Arts, Geography, History, Linguistics, Philosophy, Psychology and Sociology. Women's Studies is thus concerned with such issues as women's work and women's roles in the family in different times and different societies; the development,

transmission and perpetuation of ideas and attitudes about women; women's contributions to culture; and the particular concerns and problems of women today.

Students preparing for a career in research, teaching, administration or social work are encouraged to consider enrolling in the Major or Minor Programme in Women's Studies; since these careers involve consideration of women and women's issues, a background in Women's Studies would be a definite asset.

Supervisor of Major and Minor Programmes: L. Carney (287-7164)

The Major Programme in Women's Studies

The Major Programme is designed to acquaint students with the substantial body of scholarship and the critical concepts and methodologies used to examine women's issues in the major academic disciplines.

Students must select seven full-course equivalents as follows:

equitare as remember		
1	WSTA01Y	Introduction to Women's
		Studies
-	TELESCOPE A TOUR	TO PERSON AND AND AND

2 WSTB01F/S Feminist Approaches to the Humanities and either

WSTB02F/S Feminist Approaches to the Social Sciences

WSTB03F/S Feminist Approaches to Science

Four and one-half full-course equivalents from the list below (students should check course descriptions for prerequisites):

descriptions for prerequisites):		
ANTC11Y	The Anthropology of	
	Women and Gender	
CLAC01F/S	Selected Topics in	
or	Classical Literature*	
CLAC02F/S		
ENGB50Y	Women and Literary	
	Studies	
ENGD10-59F/S	Studies in Major	
	Writers*	
ENGD70-89F/S	Selected Topics in	
	English*	
FARB66Y	Women and Visual Art	
FREB81F/S	Women's	
	Consciousness in	
	French Literature	
FREB82F/S	Women and Literature	
	in France	
GGRC06F/S	Women and the City	
HISC10Y	The Sexes Since 1350	
HISC45F/S	Immigrants and Race	
	Relations in Canadian	
	History	
	=	

	HISD10F/S	History of Feminism
		Since the 18th Century
	HISD46F/S	Selected Topics in
	11102-10170	Canadian Women's
	I DICOGEC	History
	LINC28F/S	Language and the Sexes Social Issues**
	PHLB05F/S	
	PHLB13F/S	Philosophy and
		Feminism
	PHLC85F/S	Seminar in Philosophy
		Feminism
	PSYD18F/S	Psychology of Gender
	PSYD22F/S	Socialization Processes
	SOCB12Y	Sociology of the
	BOCDIZI	Family
	SOCC10F/S	
		Sex, Self and Society*
	SOCC29F/S	Variant Family Forms*
	WSTC10Y	Women and
		Development
4	WSTD01H	Senior Project in
		Women's Studies
	or	
	WSTD02H	Women's Studies:
		Research and Methods
		Trescator and monions

* indicates students should check if topics of the year have significant elements pertaining to women.

The Minor Programme in Women's Studies

The Minor Programme offers a more concentrated course of study designed primarily for students who wish to stream their Women's Studies course work into a particular area.

Students must select four full-course equivalents as follows:

~ 41	atenticity no ror	20 11 0.
1	WSTA01Y	Introduction to Women's Studies
2	WSTB01F/S	Feminist Approaches to the Humanities
	or	
	WSTB02F/S	Feminist Approaches to the Social Sciences
	or	
	WSTB03F/S	Feminist Approaches to Science
3	Two full-cour	rse equivalents from the

Women's Studies
WSTD01H Senior Project in

WSTD01H Senior Project in Women's Studies

or WSTD02H Women's Studies: Research and Methods

list in #3 of the Major Programme in

WSTA01Y Introduction to Women's Studies

Telephone ID #: 31710163 An interdisciplinary course which brings the perspectives of philosophy, psychology, political theory, sociology, anthropology, history, language, literature and the arts to the study of the position of women in western civilization.

The goal of this course is to enable students not only to enter into the contemporary feminist debates but to understand the significance of these debates within the disciplines under discussion. Issues to be addressed include: the patriarchal foundation of our culture; the politics of the family including the psychological dynamics of socialization; women's work in the home and the paid labour force; the transmission and perpetuation of images of women; and contemporary feminist issues including reproductive freedom, sexual politics, violence against women, and pornography. Exclusion: (JHSA01Y), NEW260Y Session: Winter Evening Co-ordinator: L. Lange Offered 1993/94 and 1994/95

WSTB01F Feminist Approaches to the Humanities

Telephone ID #: 31720133 An exploration of feminist critiques of traditional humanist enquiry.

A major focus of the course will be the examination of how feminist perspectives have enabled the reconception and reshaping of the liberal arts. How has the exposure of dominant assumptions about gender helped to question the traditional scope and methods of disciplines such as history, philosophy, fine arts, literature, and linguistics?

Prerequisite: WSTA01Y
Session: Winter Day
TBA

Offered 1993/94 and 1994/95

WSTB02S Feminist Approaches to the Social Sciences

Telephone ID #: 31720253 An examination of feminist alternatives to mainstream social science theories and research methods.

The theories and research methods that have dominated the social sciences since their inception are seen by feminists as male-centred. This course will reexamine these theories and methods, discuss their social consequences, and consider alternative theories and methods designed by feminist scholars to be sensitive to the realities of women as well as men.

Prerequisite: WSTA01Y Session: Winter Day TBA Offered 1993/94 Not offered 1994/95

Studies faculty member.

WSTD01H Senior Project in Women's Studies

Telephone ID #: 31740143
Students will choose a topic of special interest to them from an area in which they have done some concentrated study, and undertake an in-depth investigation of the topic under the supervision of a Women's

Arrangements with the supervising faculty member must be made by the student before the end of the spring pre-registration period. A substantial essay, research project, or major presentation on the approved topic will be given to the supervising faculty member and a second evaluator will be appointed. Exclusion: (JHSD01H) Prerequisites: WSTA01Y; one of WSTB01F/S, WSTB02F/S, or WSTB03F/S; and two FCE's from the list in #3 of the Major Programme in Women's Studies (or permission of the instructor). Session: Winter Day

WSTD02H Women's Studies: Research and Methods

Telephone ID #: 31740243 Students will design, develop and conduct a research project about women from an

interdisciplinary perspective.

The course will provide an overview of the various phases of carrying out research; planning the research project, choosing appropriate methods for data collection, analyzing the data and reporting the results. There will be regular consultation with the faculty supervisor.

Prerequisite: WSTA01Y, WSTB02F/S and two FCE's from the list in #3 of the Major Programme in Women's Studies (or permission of the instructor).

Session: Winter Day

Courses not offered in 1992/93

C. Guberman

WSTB03F/S Feminist Approaches to Science

Prerequisite: WSTA01Y Not offered 1993/94 Offered 1994/95

WSTC10Y

Women and Development Exclusion: NEW425Y Prerequisite: WSTA01Y, or permission of instructor; recommended: ANTB54F/S, IDSB01Y or IDSB02Y Offered 1993/94 Not offered 1994/95 conducted an annual theatre history seminar in the United Kingdom, usually during Reading Week. Over sixty pre-1914 theatres have been visited in London and the south-east, and in July 1991 a two-week seminar Where Nightingales Sang, toured fourteen theatres and Opera Houses in the north of England.

Stratford Summer Seminars

Every June and August, in Stratford, Ontario, the Division of Humanities organizes week-long Shakespeare Seminars. In each week these seminars accommodate 75 members, who are of all ages and who come from all over Canada and the United States. While a seminar is not in itself a degree course it may be taken in partial fulfillment of the requirements for DRAC20H Theatre Seminar. The seminars are useful adjuncts to undergraduate and graduate study of Drama and Theatre.

Each week members are provided with tickets to six productions in Stratford, and one production at the Blyth Festival. They participate in House seminars which provide an academic background to the plays, and attend seminars conducted by the Festival's leading actors, designers and directors. In 1991, the programme counted among its guests such actors as Barbara Bryne, Patricia Collins, Albert Millaire and Colm Feore.

The seminar programme maintains a large mailing list by which prospective members are given full details of the events for each summer. Students at Scarborough College are invited to contact either Professor Andrew Patenall or Ms. Joanne Hunter (287-7117) who will be pleased to provide them with further details of the programme. For inclusion on the mailing list, students should contact Ms. Hunter (H524) who will provide them with current newsletters, and ensure that they receive future newsletters. Full-time students to the age of 25 are provided with generous bursaries to defray the cost of theatre tickets

The seminar programme also organizes theatre outings during the academic year, and occasionally brings distinguished actors into the college for seminars and master classes.

Since 1987, the programme has also

Admissions

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

Admissions and Awards University of Toronto 315 Bloor Street West Toronto, Ontario, Canada M5S 1A3

Telephone enquiries: (area code 416) Admissions - 978-2190 Secondary School Liaison - 978-2771 Scarborough Campus Secondary School Liaison - 287-7563

General Admission Requirements to Scarborough College, University of Toronto

Candidates Applying from Ontario Secondary Schools

Admission Requirements for 1992-93

- Applicants must be eligible to receive the new Ontario Secondary School Diploma
- Applicants must present at least six (6) Ontario Academic Courses (OACs).
- One credit must be OAC English I / Anglais
- Applicants must present credits to satisfy any pre-requisites of specific courses or specific programmes in which they intend to enrol.
- Applicants whose native language is not English and who have not studied in an English language school system for more than two full years will be required to present proof of English facility by achieving appropriate standing on one of the following tests accepted by the University of Toronto:

(Note: an English language school system must be located in a country whose first (native) language is English.) Test of English as a Foreign Language (TOEFL);

Michigan English Language Assessment Battery; British Council English Language Testing Examination; Certificate of Proficiency in English Test (COPE).

Note: The above English Facility policy is currently under review.

1972 to present: 6 Grade 13/OAC credits are required. Before 1972: 7 Grade 13 credits are required.

Prerequisites

Students should choose OACs which will fulfill the prerequisites for university courses they intend to take. These prerequisites are listed at the end of this section on page 203 and after the description of each course in the Calendar.

The average required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including secondary school marks, distribution of subjects taken, performance in subjects relevant to the academic programme selected, results in senior division prerequisite courses, and supplementary information obtained through the Student Profile.

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
- before 1986: 1st year Memorial University
- 1986 to present: Grade 12 Prince Edward Island
- before 1983: 1st year University of Prince Edward Island
- 1983 to present: Grade 12 Quebec
- 12 academic C.E.G.E.P. courses

Admission with Transfer Credit

Students who have completed work at other universities or at other Faculties or Schools of this University 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.

Note that students will be required to complete at least half of their degree credits and half of their programme requirements as Scarborough College students.

Admission from Colleges of Applied Arts and Technology

- 1 Candidates who have completed a oneyear CAAT programme (or one year of a two- or three-year CAAT programme) are not eligible for consideration for admission to the first university year unless they have also completed the final academic secondary school year of the jurisdiction in which they attended secondary school.
- 2 Candidates who have completed a twoyear CAAT programme (or two years of a three-year CAAT programme) are eligible to be considered for admission to the first year of a degree programme,
- 3 Candidates who have completed a threeyear CAAT programme are eligible to be considered for admission with up to five transfer credits.

International Baccalaureate Candidates who have completed the Diploma with at least 24 points, may be considered for admission and awarded transfer credit for each higher level subject with a grade of 5, 6 or 7.

Other Countries

Students who apply for admission on the basis of work completed in other countries should write to Admissions and Awards, outlining their academic qualifications.

Mature Students

Applicants who do not hold the published admission requirements may be considered for admission if:

- 1 they are at least 21 years of age by July 15 of the Summer Session or by October 1 of the Winter Session, and
- 2 have been resident in Ontario as a Canadian citizen or permanent resident for a minimum of twelve months by the above dates, and
- 3 achieve high standing in one Preuniversity course,* or
- 4 achieve high standing in two OACs, one of which must be English OAC I.

Note: Applicants who enrol in a Preuniversity course as a refugee claimant must be officially recognized as a Convention Refugee or Permanent Resident at the time of admission to the faculty.

Students must consult with Admissions and Awards before enroling in any of these courses to check if it is appropriate to qualify using these options.

*Pre-university courses are offered by Woodsworth College of the University of Toronto. Courses in English and History are available at the Scarborough campus.

Senior Citizens

The University admits Canadian citizens and permanent residents who are aged 65 by the first day of term into Arts and Science courses as Special Students. Tuition fees and normal admission requirements are waived. Call the Assistant Registrar - Admissions at 287-7529 for information concerning the application procedure.

Admission as Special Students

Special Students are those registered at Scarborough College but not proceeding towards a degree. Most Special Students have completed degree studies and are taking further courses for purposes of their own.

Admission as Special Students on a Letter Of Permission (Visiting Students)

Students with valid Letters of Permission from other accredited North American universities may register directly at Scarborough College, taking courses for transfer credit at their own home university. Visiting Student status does NOT imply acceptance as either a student proceeding towards a degree or a Special Student. Call (416) 287-7529 for applications.

Application procedures

Students currently enrolled in an Ontario secondary school should submit applications through their school's guidance office.

All other applicants should request application forms from Admissions and Awards, giving full details of their educational background and standing.

Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates must offer written evidence of exceptional ability, or of extenuating circumstances. Applicants who

matriculated prior to the current year are advised to telephone or write to Admissions and Awards for information.

Possession of minimum requirements does not guarantee acceptance. Because of limitation of space, preference will be given to applicants with the best qualifications. The University of Toronto reserves the right to determine whether or not credentials of degree- granting institutions in Ontario meet the standards for admission to University of Toronto programs.

Application deadlines

Applicants are strongly advised to submit application forms well in advance of the following deadlines: Admission to the Summer Session Term I (beginning in May) - March 15 Admission to the Summer Session Term II (beginning in July) - May 15 Admission to the Winter Session (beginning in Sept.) - June 1 Note: Applications will not be accepted for entry to the January term. Overseas applicants should apply at least six weeks before these dates. To be considered for first round selection to the Co-operative Programmes, applicants should apply early to allow time to receive, complete, and return the special Cooperative application by April 30. Applicants interested in applying to limited enrolment programmes (for September entry) should apply well in advance of the June 1 deadline.

Secondary School Prerequisites

The courses below have OAC prerequisites. Students may begin the study of many languages without OAC preparation. Students who already have language skills should contact the Supervisor of Studies about courses appropriate to their level of competence. Note that some programmes have implicit OAC requirements. For example, the Specialist Programmes in Management and Economics require MATA28Y which in turn requires the OACs in mathematics listed below.

Scarborough course	Prerequisite(s)	Recommended course(s)
Chemistry A02Y	Chemistry, Calculus	
Computer Science A57H	Calculus, and one of Algebra & Geometry or Finite Mathematics	
Computer Science A58H	Algebra & Geometry, Calculus	
Fine Art Studio	Studio Art or Equivalent	
French A10Y	French	
Geology A01Y		Mathematics and Science courses
Mathematics A04Y	Algebra & Geometry, Calculus	
Mathematics A26Y	Calculus, and one of Algebra & Geometry or Finite Mathematics	
Mathematics A28Y	Calculus, and one of Algebra & Geometry or Finite Mathematics	
Physics A01Y	Calculus, and one of Algebra & Geometry or Finite Mathematics	Physics
Physics A02Y	Calculus, and one of Algebra & Geometry or Finite Mathematics	

Note: Students should refer to the Programmes of Study for further information.

OAC Prerequisites by Program of Study See also General Admission Remirements. ENGOACI/Anglais is required for all programs	rall programs.	
Legend: Calc: Calculus; Alg&Geo: Algebra and Geometry; Fin: Finite; Chem: Chemistry; Spec: Specialist; Maj: Major; Min: Minor	m: Chemistry; Spec: Specialist; Maj: Major; Min	: Minor
Program	Required OACs	Recommended OACs
Co-operative Programs		
Adminstration (Co-op, Spec)		Calc; French or Language other than English
Arts Administration-Fine Art Studio Option (Co-cp, Spec)	Visual Art (or equivalent)	French; Calc
International Development Studies (Co-co, Spec)		Calc; French or Language other than English
Computer Science and Physical Science (Co-op, Spec)	Cal; Alg&Geo	Physics
Arts-Humanities		
The Arts-Fine Art Studio Concentration (Spec)	Visual Art (or equivalent)	
Fine Art Studio (Spec and Maj)	Visual Art (or equivalent)	
French (Spec)	French (or equivalent)	
French Language (Maj and Min)	French (or equivalent)	
French Lanuage and Literature (Maj)	French (or equivalent)	
German Language (Maj)		German
Italian Language (Maj)		Italian
Linguistics (Spec, Maj and Min)		Language other than English
Spanish Language (Maj and Min)		Spanish
Note: Most of the humanities programs do not require specific OAC preparation. However courses which develop writing and analytical skills are recommended.	on. However courses which develop writing and	analytical skills are recommended.
Management and Economics		
Economics (Spec)	Calc; Alg&Geo or Fin	
Economics (Maj)		Calc; Alg&Geo or Fin
Economics and History (Spec)		Calc or Alg&Geo or Fin
Economics and Mathematics (Spec)	Calc; Alg&Geo	
Economics and Political Science (Spec)		Calc or Alg&Geo or Fin
Economics and Quantitative Methods (Spec)	Calc; Alg&Geo	
Management and Economics (Spec)	Calc; Alg&Geo or Fin	
Management and Economic Theory (Spec)	Calc; Alg&Geo or Fin	
Management and Language, with French option (Spec)	French (or equivalent); Cal or Alg&Geo or Fin	
Management and Language, with German, Italian or Spanish options (Spec)	Calc or Alg&Geo or Fin	appropriate language
Management (Spec)	Calc or Alg&Geo or Fin	
Social Sciences		
Authropology with physical/archaeological focus (Spec)		"Sciences", Geography
Anthropology with cultural/social focus (Spec)		History; Geography; Language studies
Geography with physical geography focus (Spec)		Geography; "sciences"
Geography with human geography focus (Spec)		Geography: economics: history

rtogram	Required OACs	Recommended OACs
Social Sciences Continued		
Jeography (Maj)		Geography
nternational Development Studies (Maj)		Calc
Sociology (Spec and Maj)		Calc or Alg&Geo or Fin
Note: None of the social science programs require specific OAC preparation. However courses which develop writing and analytical skills are recommended	ation. However courses which develop writing	g and analytical skills are recommended.
lfe Sciences		
Biological Sciences (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Siological Sciences (Maj)		Biology; Calc; Chem
Cell and Molecular Biology (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Cognitive Science (Spec)	Cal or Alg&Geo or Fin	Biology; Phsyics
Cognitive Science with advanced computer science courses (Spec)	Cal; Alg&Geo	Biology; Physics
Cognitive Science (Maj)		Biology; Cal or Alg&Geo or Fin
Ecology and Environmental Biology (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Veurosciences (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Veurosciences (Maj)	Cal; Chm	Biology
Psychology (Spec)		Biology; Calc; Physics
Psychology (Maj)		Biology; Calc
Physical Sciences		
Astronomy, Mathematics and Physics (Spec)	Cal; Alg&Geo	Physics
Astronomy and Physics (Maj)	Cal; Alg&Geo or Fin	Physics
Chemistry (Spec and Maj)	Cal; Alg&Geo or Fin; Chem	Physics
Chemistry and Biochemistry (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Biochemistry (Maj)	Cal; Chem	Biology;
Computer Science (Spec)	Cal; Alg&Geo	Physics
Computer Science for Data Management (Spec)	Cal; Alg&Geo	Physics
Computer Science and Mathematics (Spec)	Cal; Alg&Geo	Physics
Computer Science and Statistics (Spec)	Cal; Alg&Geo	Physics
Environmental Chemistry (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Mathematics (Spec)	Cal; Alg&Geo	Physics
Mathematics and Statistics (Spec)	Cal; Alg&Geo	Physics
Physical Science (Spec)	Cal; Alg&Geo or Fin; Chem	Physics
Ferrain and Environmental Science (Spec)	Cal; Alg&Geo or Fin; Chem	Biology; Physics
Mathematical Sciences (Mai)	1 Carl 4 1 C	

Awards

Unless specified the following awards do not require an application; all Scarborough College undergraduate degree students with excellent academic standing are considered. The official award records are on file in the Office of the Registrar (Room S415). Scarborough students are also eligible for consideration for other general University of Toronto scholarships and bursaries in addition to the awards listed below.

A general condition for holding an entrance or in-course award is that the student must register at Scarborough College in the following academic year. Students who have been awarded a scholarship which is based on enrolment in a particular programme of study must continue in that programme to receive the award. Scarborough College may not award a scholarship, if, in a particular year, the academic achievement of the candidate is not of high standard.

Admission awards

A substantial number of admission scholarships are awarded each year on the basis of excellent academic standing. Successful applicants will be notified at the time they receive an offer of admission to the University.

University of Toronto Scholars Programme - National

Scholarships: The National Scholarship Programme recognizes the very best students from secondary schools across Canada. Each secondary school is invited to nominate its most outstanding graduating-year student to receive a National Book Award. The student is then eligible for consideration for a University of Toronto National Admission Scholarship. Five National Scholarships are awarded each year. The scholarships have a value of \$5,000 per year for four years, and include free residence for the first year. Finalists in the National Scholarship competition will receive Arbor Scholarships which are similar to the National Scholarships, but with a value of \$2,200 per year. Ontario secondary school students should contact their high school guidance offices for scholarship applications and information. All other students should write to University of Toronto, Admissions and Awards, 214 College Street, Toronto, Ontario, M5T 2Z9.

University of Toronto Scholars Programme - Admission

Scholarships: The University of Toronto will honour the most outstanding admission applicants as University of Toronto Scholars. These scholarships, which have a value of \$1,500, may be held in any programme of study at the University, and in conjunction with the faculty or college admission awards. Approximately the top 120 students entering the University can expect to be selected as University of Toronto Scholars.

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

Frederick A. Urquhart Admission Scholarships

Eight scholarships are awarded to students entering first year on the basis of exceptional academic achievement in secondary school. The scholarships are awarded in honour of Professor Emeritus F.A. Urquhart, a distinguished entomologist.

University of Toronto, Scarborough College Admission Scholarships

Approximately forty scholarships are awarded to students on the basis of excellent academic achievement.

Scarborough College Alumni Admission Award

Awarded to a graduate of a City of Scarborough high school (public or separate) who has provided evidence of valuable community service and demonstrated high academic standing. Applications are mailed to Scarborough schools in February.

Scarborough Alumni Entrance Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school programme.

Warner-Lambert Admission Scholarship

Awarded to a student entering first year on the basis of academic excellence in the secondary school programme. Ting Sum Tang Memorial Entrance Scholarship

Awarded to a student on the basis of excellent academic achievement in the secondary school programme. Donated by the Federation of Chinese Canadian Professionals (Ontario Education Foundation).

In-course awards

University of Toronto Scholars Programme - In Course Scholarships: The University will identify outstanding undergraduates completing 1st, 2nd and 3rd years as University of Toronto Scholars. It is expected that these top students will receive awards of at least \$1,000. The first awards under this programme will be made to students completing first year in 1993.

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

Vincent Bladen In-course Scholarships

A total of six scholarships are awarded on the basis of exceptional academic achievement at the completion of each year of study. The scholarships are awarded in memory of Professor V. Bladen, a former member of the faculty in Economics.

Scarborough College In-course Scholarships

Awarded to the outstanding students in each year at Scarborough College.

Stanley Kosta Todorow Scholarships

Awarded on the basis of academic excellence to one or more students registered in a Life Sciences or Physical Sciences programme which leads to a Bachelor of Science degree.

Norman F. Brown Memorial Award in Humanities

Awarded to a student enrolled in the second or third year of a programme in the division of Humanities on the basis of excellent academic achievement.

The Hudson's Bay Company Scholarship

Awarded to the student who has demonstrated outstanding academic achievement at the end of third year.

The University of Toronto Women's Association Lois Dove Memorial Scholarship

Awarded to a student on the basis of excellent academic achievement in the third year of a four year undergraduate degree programme.

The Ali Tayyeb Scholarship Awarded to a student who demonstrates excellent scholarship in political geography, geography of resources, studies of developing nations, Canadian studies, or an appropriate related field. The scholarship is awarded in memory of Professor Ali Tayyeb, a former member of the faculty in Geography. Suitable candidates are nominated by members of the Scarborough College faculty.

Scarborough Campus Student Council Prizes

Awarded to a student in good academic standing entering the second, third or fourth year who has made an outstanding contribution to the Academic, Social or Cultural life of Scarborough College. Application required.

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

Tom McFeat Prize in Anthropology

Awarded to the outstanding student entering the final year of the Major or the Specialist Programme in Anthropology.

John Pounder Prize in Astronomy Awarded to a full-time student entering the third year of a physical sciences programme on the basis of excellent achievement in ASTA03Y and one B or C level course in Astronomy.

John S. Moir Prize in Canadian History

Awarded to the student with the highest standing in HISB04Y Introduction to Canadian History.

William Beardmore Memorial Prize in History Awarded to the student completing third

year, who in the opinion of the members of the teaching staff in History, has excelled in the study of History. Awarded in the memory of the late William Beardmore, a History graduate of Scarborough College.

The Morris Krever History Prize Awarded to a student entering the third year of the Major or Specialist Programme in History on the basis of academic performance (at least B+ standing) and financial need. Emphasis is placed on academic performance. Application required.

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

McClelland and Stewart Essay Prize in Canadian Studies Awarded on the basis of an essay, 2,500 to 5,000words in length, on a topic focusing on Canadian art, drama, music or literature.

The Oxford University Press English Essay Prize

Awarded for the best essay written for an English course, in the past academic year.

The Margaret H. McCoy Johnston Scholarship

Awarded to the student enrolled in a major or specialist programme(s) in a modern language who, on entering the third or fourth year, has the highest grade point average in courses taken to satisfy the programme(s) (minimum gpa 3.2).

Anita FitzGerald Prize in Women's Studies

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

Dr. Vivian Paskal Memorial Prize in Psychology

Awarded to a full-time student entering the fourth year of the Specialist Programme in Psychology, on the basis of excellent academic achievement.

The Katherine Nagel Philosophy Prize

Awarded to the student in the Major or Specialist Programme in Philosophy before the beginning of the third or fourth year of study whose grades and performance in Philosophy, in the opinion of the Faculty in Philosophy, have best demonstrated excellence in the subject.

Margeson Scholarship in English Awarded to an outstanding student who has completed the second year of the Major or Specialist Programme in English.

Leigha Lee Browne Scholarship in Drama

Awarded to a student displaying outstanding ability in the dramatic arts who is either continuing in a Drama Programme at Scarborough College or is graduating and has registered in an advanced training programme in the dramatic arts.

Application required.

The Gilchrist Award in Cell and Molecular Biology

Awarded to the student entering the fourth year of study in the Specialist Programme in Cell and Molecular Biology who has completed at least ten of the required full course equirements of the Programme requirements and who has the highest grade point average in the Programme (minimum B+/3.30 GPA).

The Gilchrist Award in Computer Science

Awarded to an excellent student entering the third year of a Major Programme or fourth year of a Specialist Programme in Computer Science.

The Gilchrist Scholarship in Terrain and Environmental Earth Sciences

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

The Gilchrist Scholarship in Physical Sciences

Awarded to the outstanding student who (i) has achieved at least an average of A- on five full credits, of which three must be physical sciences courses, in the first year of full-time study and (ii) is registered as a full-time student in a physical sciences Specialist Programme in second year.

Hewlett-Packard Calculator Award Awarded to students entering a Specialist Programme in Computer Science who have demonstrated excellence in sciences and computer sciences.

The Scarborough College Physics Prize

Awarded to the student in a Physics Specialist or Major Programme, including joint Programmes, who has the highest combined grade point average in PHYB01, PHYB03, PHYB04, PHYB17 and PHYB19, provided that the average is at least 3.3 (B+).

The William D. Peek Award in Biology

Awarded to a full-time student entering the second year of any programme in the biological sciences on the basis of excellent achievement in BIOA03Y Introductory Biology (minimum 3.3 gpa / B plus). Emphasis will be placed on the laboratory component of the course and overall contribution to the class.

Scarborough College Prize in Biology

Awarded to a full-time student entering the fourth year of a specialist programme in biological sciences on the basis of excellent academic achievement. Emphasis will be placed on achievement in the third year of study.

Brian David Radford Memorial Scholarship in Management

Awarded to one or more students entering the third or fourth year of a Management programme whose academic and athletic achievement, combined, best exhibit dedication to excellence. (Minimum grade point average of 3.3/B+). Application required.

Management Accounting Student of Merit Scholarship

Awarded to the student who has completed the third year of study in the Specialist Programme in Mangement or Management and Economics, and who has completed the following courses with the highest average grade: MGTB01Y, MGTC02Y, MGTC72H/73H.

North Scarborough Rotary Club Scholarships

One scholarship is awarded to a student in a Management Programme and one is awarded to a student in a Political Science Programme. Candidates must be Canadian citizens or Permanent Residents, graduates of a City of Scarborough secondary school and have achieved a cumulative grade point average of at least 3.3 (B+). Application required.

Ernst & Young of Scarborough Award in Management

Awarded to an outstanding student entering third or fourth year in a Management Programme, who has achieved a cumulative grade point average of at least 3.3.

The Harvey Babiak Award in Financial Accounting

Awarded to a student completing the third year of the Specialist Programme in Management or Management and Economics with the highest grade (at least A minus) in MGTC01Y.

Donated by Peat Marwick Thorne.

Warner-Lambert Arts
Administration Scholarships

One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding academic achievement. One scholarship will be awarded to a student enrolled in the Co-operative Programme in Arts Administration who has demonstrated outstanding achievement on the work placement.

SKF Canada International
Development Scholarship
Awarded to the student enrolled in the Cooperative Programme in International

Development Studies who has demonstrated outstanding academic achievement.

Washington United Church U.C.W. International Development Scholarship

Awarded to a student enrolled in the Cooperative Programme in International Development Studies who has demonstrated outstanding academic achievement.

Canadian Society for Chemistry Silver Medal

Awarded to a student entering the fourth year of a specialist programme in chemistry who has the highest standing in the programme in third year.

Canadian Society for Chemistry, Toronto Section Book Prize Awarded to the most improved student entering the fourth year of a specialist programme in chemistry. Division of Physical Sciences Book Award in Chemistry

Awarded to a student entering the third year of a programme in chemistry based on academic achievement in the courses required for the programme (a minimum of three chemistry courses must be completed to be considered).

Rohm & Haas Canada Scholarship in Chemistry

Awarded to an outstanding student entering either (i) the third year of a major programme in chemistry or (ii) the third or fourth year of a specialist programme in chemistry.

Andrew Tsang Memorial Scholarship in Sino-Canadian Studies

Awarded to the undergraduate, whose academic performance and extra-curricular activities in the area of Chinese studies and Sino-Canadian studies best exhibits commitment to Chinese-Canadian cultural and economic ties.

Samuel Beatty In-Course Scholarships

Awarded to students enrolled in second, third or fourth year, in a Specialist Programme offered by the departments of Mathematics, Physics or Computer Science (Faculty of Arts and Science, Scarborough College) on the basis of academic performance and financial need. Application required.

APUS Scholastic Awards

Part-time undergraduate students who (a) have completed at least ten full courses, of which four are in an area of specialization, and; (b) have obtained a B average (G.P.A. of 3.0) in the most recent five full courses, may apply. Application required.

APUS Award for the University of Toronto's Sesquicentennial Part-time undergraduate students who (a)

have completed at least five full courses with a B average (G.P.A. of 3.0) in the last five full courses, and (b) have demonstrated outstanding achievement or commitment in activities distinct from their University studies or have overcome adverse circumstances in order to attend University, may apply. Application required.

Other awards are available.

Students should check the "Awards" binder in Room S415.

Graduation prizes

Graduation Prizes in Humanities, Life Sciences, Management & Economics, Physical Sciences and Social Sciences

Awarded to the outstanding member of the graduating class in each of these areas of scholarship.

Ali Tayyeb Prize

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

The Irwin Publishing Prize in Classical Studies

Awarded to the outstanding member of the graduating class who has completed the Major Programme in Classical Studies.

Forrin Prize in Psychology
Awarded to the outstanding member of the
graduating class who has completed the
Specialist Programme in Psychology.

CGA Ontario Award for Excellence Awarded to an outstanding graduating student completing a Management programme who has displayed excellent achievement in accounting, with grades not less than A minus in each of MGTB01Y and MGTC01Y.

The Graduation Prize in Sociology Awarded to the student who has achieved the highest scholastic average (grade point average) in either the Sociology Specialist or Major Programme. The grade point average is based on all sociology courses attempted.

CIBA-GEIGY Award in Neuroscience Awarded to a student graduating with a fouryear degree who has completed either the Neuroscience Specialist or Major Programme, who in the judgement of the Faculty, has demonstrated the most outstanding academic and laboratory performance.

The Gilchrist Graduation Prize in Computer Science
Awarded to an outstanding member of the

Awarded to an outstanding member of the graduating class who completed a Major or Specialist Programme in Computer Science.

The Gilchrist Graduation Prize in Cell and Molecular Biology Awarded to the student who has the highest grade point average in the Specialist Programme in Cell and Molecular Biology (minimum B+/3.30 GPA).

The Society of Chemical Industry Student of Merit Award

Awarded to a member of the graduating class who has completed a Specialist programme in chemistry and achieved the highest standing in the final year. (Minimum GPA of 3.0/75%; has completed the degree within the normal number of years)

Orpheus Prize in Humanities Awarded to an outstanding member of the graduating class who has completed either the Specialist or College Programme in the Humanities or the Major Programme in Literature.

Graduation Prize in Political Science

Awarded to an outstanding member of the graduating class who has completed a programme in political science.

Digital Equipment of Canada Limited Award of Merit Awarded to the most outstanding student

Awarded to the most outstanding studen graduating in Computer Science in the University.

John H. Moss Scholarship
Exceptional all-round students graduating in the spring who intend to enter a graduate or second undergraduate degree program should request an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in January.

Scarborough College Honours List Scarborough College publishes annually an honours list, including the names of all degree students who have achieved a grade point average of 3.70 or better in their most recent year of full-time study or equivalent amount of part-time study. Students are considered for the honours list at the end of the session in which they complete their 5th, 10th, 15th and 20th credit. Other students may be nominated by the academic Divisions of the College.

Graduation With High Distinction and With Distinction

Scarborough College students who have completed at least ten full courses while registered at Scarborough College or at the University of Toronto's Faculty of Arts and Science will graduate with high distinction if their cumulative grade point average is 3.50 or better and will graduate with distinction if their cumulative grade point

average is between 3.20 and 3.49. Other students with a cumulative grade point average of 3.20 or better will be considered on an individual basis.

Bursaries

University of Toronto Undergraduate Bursaries

Applicants for bursaries must demonstrate financial need. Applications may be obtained from the Counselling Services Office. Deadline: November 1; however, applications will be accepted after this date should emergencies arise and funds are still available.

Edward A. Pickering Placement Bursaries in Arts Administration Awarded to students enrolled in the Cooperative Programme in Arts Administration undertaking Placement, on the basis of financial conditions during Placement. (Applications are required.) Donated by the Corporation of Massey Hall and Roy Thompson Hall.

The MacDonald Bursary Awarded to a full-time degree student registered in second, third or fourth year who achieved at least a Grade B standing in

the previous year and who can demonstrate financial need.

Ontario Student Assistance Programmes

Canadian citizens or permanent residents who have established themselves as Ontario residents, and who demonstrate financial need, may be eligible for interestfree loans or grants. Applications are available from the Counselling Services Office. The Office of Student Awards inquiry number is (416) 978-7950.

Academic Regulations

Student responsibility

Students are responsible for making themselves familiar with the information in this Calendar, particularly with this section, as well as instructions published by the Registrar periodically. Students whose registration contravenes the regulations will be withdrawn from courses. Members of the Registrar's Office and Counselling Services Office will assist students in interpreting the regulations and explaining their application in particular cases. Where appropriate, they will assist those who encounter special difficulties in requesting special consideration.

Calendar changes

The information published in this calendar outlines the rules, regulations, curricula and Programmes for the 1992 Summer Session (May to August) and the 1992-93 Winter Session (September to May). The College reserves the right to change without notice any information contained in this Calendar, including any rule or regulation. The publication of information in this Calendar does not bind the University to the provision of courses, Programmes or facilities as listed herein.

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. As far as possible, places will be available for incoming students in A-level courses.

St. George Campus or Erindale Campus courses

Students who propose to register in courses on the St. George or Erindale campus should consult page 220 of this Calendar.

Registration

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

Summer Session

Students who were registered at the College in the 1991 Summer Session or the 1991-92 Winter Session should pick up registration material from the Registrar's Office beginning on April 1. Signs will be posted at the College when it is available. New students and students reactivating their enrolment after a year away will be mailed their registration material upon request. There is a fee for students reactivating their enrolment.

Winter Session

Students who were registered at the College in the previous Winter Session should pick up registration material from the Registrar's Office beginning on March 16. Material which is not picked up will be mailed in June. Returning students who were not registered in the previous winter or summer session should get in touch with the Office of the Registrar to request reactivation of their enrolment for which a fee will be charged. They will be mailed registration material. New students will receive registration information with their offers of admission.

Schedule of Fees

The University Fees Department publishes a schedule of fees. The schedule for the 1992 Summer Session will be included in the registration package. The schedule for the 1992-93 Winter Session will be available in June. Further information on fees may be obtained from the Fees Department, University of Toronto, 215 Huron Street, Toronto, Ontario, M5S 1A2; (416) 978-2142.

University of Toronto Student Telephone Service (872-8638)

Scarborough College students with access to a touchtone telephone may use the Student Telephone Service to:

- add courses
- drop courses
- change sections
- list courses on their record
- request graduation
- receive St. George campus ballot results
- avoid lineups

Telephone course identifiers are the numbers which appear next to the course code in the course descriptions in this *Calendar*. Detailed instructions on the Student Telephone Service are available from the Office of the Registrar and will be distributed with registration material.

Students in debt to the University Scarborough College imposes the following academic sanctions on students in debt to the University:

- transcripts are not issued
- diplomas are not released
- written certification of degree and programme completion is not provided
- registration of continuing students is cancelled
- registration is refused to students returning to the College after an absence of twelve months or more

The following debts are taken into consideration when applying sanctions:

- tuition fees
- residence fees and other residence charges
- library fines
- Bookstore accounts
- loans made by colleges, faculties or the University
- Health Service accounts
- unreturned or damaged instruments, materials and equipment
- fines levied under the Code of Behaviour on non-academic matters

Services to Persons with a Disability

A Co-ordinator is available to provide personal support and liaison with academic and administrative departments on campus and with agencies off-campus, and to organize volunteers to assist in various ways.

Devices to aid print-handicapped students on all three campuses and personal amplification systems to aid hard-of-hearing students may be borrowed from the Co-ordinator. Students can make appointments through Counselling Services, Room S302, 287-7560 or by contacting the St. George campus office in the Koffler Student Services Centre, 978-8060.

Course key

The Course Code

1 The Discipline Abbreviation
The first three letters of the course code indicate, in an abbreviated form, the discipline or subject area of the course.
ANTA01Y "ANT" indicates a course in Anthropology, CHMB44Y "CHM" indicates a course in Chemistry;
PHLD87H "PHL" indicates a course in Philosophy.

2 The Course Level

The fourth letter of the course code indicates the level of the course with "A" indicating the most elementary level and "D" the most advanced.

3 The Course Number

The fifth and sixth letters of the course code are course numbers. In most disciplines, these numbers have no significance, except to identify the course in a shorthand form.

4 Credit Value and Duration of a Course
The final letter of the course code indicates
the credit value and duration of a course as
follows:

Lette	r Value	Session	Session
F S H A	Full Course Half Course Half Course Half Course Full Course Full Course	SepDec. JanMay SepMay SepDec.	May-August May-June July-August May-August May-June July-August

Winter

Summer

Hence, ANTA01Y is an elementary course in Anthropology taught throughout the session and worth a full course credit. PHLD87S is an advanced course in Philosophy taught in the second term and worth one-half a course credit.

Exclusions, Prerequisites and Corequisites

1 Exclusions

Final Credit

A student may not register for credit in a course which lists, as an exclusion, one which the student is also taking or has already passed.

2 Prerequisites

A student must have passed the prerequisite course before enrolling in the course being described. Instructors are permitted to waive prerequisites if they feel 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, the student may be withdrawn from the course at any time during the term. Students who are not withdrawn from the course remain in it at their own risk, for lack of the prerequisite is not grounds for special consideration. Students who complete courses for which they have obtained a waiver of specific prerequisites may not subsequently obtain credit for the less-advanced prerequisite

3 Corequisites

Students must either already have passed the corequisite course, or must enrol in it at the same time as they take the course being described. Instructors are permitted to waive corequisites if they feel that there are adequate grounds for so doing. If students register in a course without meeting its corequisite, or if they withdraw from the corequired course without obtaining

specific waiver of the corequisite, they may be withdrawn from the course at any time during the term. Students who are not withdrawn from the course remain in it at their own risk, for lack of the corequisite is not grounds for special consideration.

4 Exclusions, Prerequisités and Corequisites in Parentheses
Some exclusions and some prerequisite and corequisite courses are enclosed in parentheses. This indicates that the course is no longer in the College's curriculum. Students who have already passed an excluded course contained in parentheses may not take the course being described. Students who have 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

Students in these courses work under the direction of a faculty member with whom they meet periodically or in whose laboratory they work. Students must obtain written permission of instructors before enrolling in them.

Course¹ selection

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

- Prerequisites and corequisites for each course, as stated in the course descriptions, must be met, unless waived by the instructor.
- 2 Students may not register for credit for a course if they have already passed² another course shown in the course description as an exclusion to that course.
- 3 Students may not re-register for credit in a course if they have already passed that course. Students may re-register in a course they have taken, but failed. In such cases, both registrations in the course are shown on the student's record, and both grades count in the student's grade point average.
- 4 Students may not register for credit in a course which is a specific prerequisite³ for a course they have already passed.

- 5 Where students may not register in courses for credit, they may register in them as extra courses. In such cases, both registrations in the course are shown on the student's record but the second grade is not included in the student's grade point average nor does it count towards the degree.
- 6 Students may normally select as many courses as they wish each session. Students should, however, note the following.
 - The usual load for a full-time student in the Winter Session is five courses.
 - The usual maximum load for a student in the Summer Session is two courses.
 - Students who are on probation are strongly advised to carry no more than an average course load. Should they choose not to follow this advice they do so at their own risk.
- 7 Full-time students are those students who register in at least four courses in the Winter Session. Students who are restricted on admission to part-time studies until they have met certain conditions may register in no more than two and one-half courses in any session until those conditions are met.
- 8 Students must register for their courses in accordance with instructions issued each session by the Registrar. Students who wish to change their registration:
 - may do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" of this Calendar;
 - must notify the Registrar of any change through the Student
 Telephone Service or by means of a registration change form, submitted by the appropriate deadline.
- Where multi-sectioned courses have a common examination, students enrolled in the evening section of the course may be required to sit an examination during the day.

Degree requirements

Students who first registered at the College before the 1989 Summer Session may, if they wish, complete the degree requirements outlined in the 1988/89 Scarborough College Calendar. Students who first registered at the College before the 1980 Summer Session may, if they wish, complete the degree requirements outlined in the 1979/80 Scarborough College Calendar.

Three-year degree

To qualify for a three-year degree, students must:

- 1 pass at least fifteen courses
- 2 complete the requirements of a Major Programme or a College Programme or two Minor Programmes.
- 3 earn a cumulative grade point average of at least 1.60.

Four-year degree

To qualify for a four-year degree, students must:

- 1 pass at least twenty courses
- 2 complete: (a) a Specialist Programme, or (b) two Major Programmes, or (c) a Major Programme and a College Programme, or (d) three Minor Programmes, or (e) two Minor Programmes and either a Major Programme or a College Programme.
- 3 earn a cumulative grade point average of at least 1.60.

B.A. and B.Sc. degrees

The type of degree students receive is determined, for students completing the requirements outlined above, by the Programme completed. (See the list of Programmes on page 15 for the type of degree towards which the Programme leads.) For students completing the requirements outlined in the 1988/89 or the 1979/80 Calendar, the type of degree is determined by the number of Science credits completed.

Transfer Students

Students will be required to complete at least half of their credits and half of their programme requirements as Scarborough College students.

NOTES:

1 A course. The word course is used in two ways: a) to describe a full or half course such as "the last day to withdraw from a course", or b) to describe a number of full courses, or the equivalent in full and half courses such as the requirement of passing fifteen courses for a three-year degree.

- 2 To Pass a Course. To pass a course means to obtain a grade of D- or better in that course (or "Credit" in a Credit/No Credit course).
- 3 A Specific Prerequisite. This rule does not apply in the case of non-specific prerequisites (such as "one B-level course in English") or in the case where one of two or more completely different courses may serve as prerequisite.

Programme requirements

Specialist Programmes

1 Specialist Programmes are designed to provide depth and intensity of study within a limited area defined as 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. There are four Specialist (Cooperative) Programmes (see page 53). (A list of Specialist Programmes may be found on page 15.)

Major Programmes

2 Major Programmes are designed to provide concentration in an area of study defined as 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 page 16.)

College Programmes

3 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 page 16.)

Minor Programmes

4 Minor Programmes are designed to provide study in a specific area for students desiring wide-ranging but coherent programmes of study in different areas of the curriculum. A Minor Programme may be taken as part of either a three-year or four-

year degree and will consist of four full courses, including at least one C or D level course.

Approved Individual Programmes

5 Students may propose individual Programmes of study, other than those described in this Calendar. Such proposals will be considered favourably only from students with cumulative grade point averages of 3.5 or greater. To be approved, individual Programmes should specify four courses for a Minor Programme, six to eight courses for a Major or College Programme and ten to fourteen courses for a Specialist Programme. The courses should all be offered on the Scarborough Campus and should form a logical programme. The student should offer a rationale for the proposal. Proposals should be made to the Vice-Principal and Associate Dean. Proposals must be submitted at least eight months prior to the session in which the students expect to graduate.

Course selection and registration for Programmes of study

- 1 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. 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.
- 2 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, and counsellors in Counselling Services may be consulted for assistance. Students who have registered in a Programme should consult annually with the supervisors of their Programmes to ensure that their course selection will meet Programme requirements.
- 3 Students must register in their Programmes at the time they submit their course registration for the Winter Session following the session in which they attain their fourth credit.

Programme transfers

Students who wish to transfer from one Programme to another after classes have started should discuss the proposed transfer with the supervisor in the new Programme and submit a registration change form to the Registrar's Office. (If enrolment in the new Programme is limited, the form must be signed by the Programme supervisor.)

Certification of completion of Programmes

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 graduation. When Programme requirements are changed, students may elect to satisfy the requirements in effect when the student first completed courses at the College or subsequent requirements if the student finds them more favourable. However, the College reserves the right to require substitution for courses which are no longer offered.

Regulations concerning Programmes of study

- 1 Students may not register in two limited enrolment Specialist Programmes.
- 2 No overlapping courses are permitted between a Minor Programme and any other Programme.
- 3 Where a student is registered in two Major and/or College Programmes with overlapping course requirements, a student may use no more than two courses to fulfil 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.
- 4 Where a student completes the requirements of a Minor Programme and subsequently chooses to complete a Major, College or Specialist Programme the student may use the courses already accredited to the Minor Programme to fulfill the requirements of the Major, College or Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Minor Programme will be superseded on the

student's transcript by certification of the Major, College or Specialist Programme.

5 Where a student completes the requirements of a Major or College Programme, and subsequently chooses to complete a Specialist Programme, the student may use the courses already accredited to the Major or College Programme to fulfil the requirements of the Specialist Programme. Upon successful completion of the additional requirements, any previous certification of the Major or College Programme will be superseded on

the Specialist Programme.

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

the student's transcript by certification of

- prescribe additional courses where a student is registered in two Major Programmes (or a Major and a College Programme) that require more than two overlapping courses (see 3 above);
- accredit to Programme requirements, courses taken on other campuses of this University or at other Universities; and
- permit course substitutions or other modifications of Programme requirements where they deem them appropriate. When special arrangements are made, students should ask their supervisor to record them on a programme exceptions form.
- 7 Students should note that certain Programmes will require students to take some of their courses on the St. George Campus.
- 8 Students intending to enrol in any course on the St. George Campus which they intend counting towards their programme should consult with their Programme Supervisor first.
- 9 Transfer students will be required to complete at least half of their credits and half of their programme requirements as Scarborough College students.

Standing in a course

Grading scheme

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

	Grade		
	Point	Percentage	
Grade	Value	Equivalent	Definition
A+	4.3	90-100	
Α	4.0	85-89	Excellent
А-	3.7	80-84	
B+	3.3	77-79	
В	3.0	73-76	Good
В-	2.7	70-72	
C+	2.3	67-69	
C	2.0	63-66	Adequate
C-	1.7	60-62	
D+	1.3	57-59	
D	1.0	53-56	Marginal
D-	0.7	50-52	
CR		No value	Credit in a
			Credit-/No-
			credit course
E	0.3	35-49	Inadequate
_	0.5	30 .5	macquar
F	0.0	0-34	Wholly
			Inadequate
NOD	^ ^	NI- 37-1	NI 3:4 *
NCR	0.0	No Value	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. Students are cautioned that a numerical score on an assignment is not deemed to be automatically equivalent to the corresponding letter grade.

Credit/No credit courses

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

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

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 C minus or better. Where a student is assigned Aegrotat standing, the course is not included in any grade point average.

Extra courses

Extra courses are those courses in which students may not register for credit (see "Course Selection" on page 215). 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.

Overall standing

Grade point averages

At the end of each summer session (May to August) and each winter session (September to May) both a sessional and a cumulative grade point average (GPA) will be calculated for each student, and shown on the student's transcript.

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

Determination of academic status

Academic status will be determined as follows for students who have attempted at least two and one-half full courses (or equivalent) since beginning their studies at Scarborough College or at the University of

Toronto's Faculty of Arts and Science. It is determined at the end of each Summer and each Winter Session:

1 In good standing Students who maintain a cumulative grade point average of 1.60 or better shall be said to be "in good standing".

2 On probation

- Students shall be placed on probation who have attempted at least two and onehalf courses in the College and have a cumulative GPA of less than 1.60.

- Students returning from suspension (under 5) below or under any provision in previous College rules) shall be placed on probation again.

3 Probation cleared

Students may clear probation by achieving a cumulative GPA of 1.60 or better. Students who have cleared probation shall be said to be again "in good standing".

4 Probation continued Students may continue on probation by achieving a sessional grade point average of at least 1.60 in each session (summer or winter) until such time as they return to good standing.

Suspended or refused further registration

Students who, by the end of a given session, whether Summer (May to August) or Winter (September to May), have not either cleared probation or achieved a sessional grade point average of at least 1.60 shall be liable for suspension or refusal of further registration as follows, regardless of the number of courses taken in the session:

- Students who have incurred no previous suspension will be suspended for one year.
- Students who have previously incurred (at worst) a one year suspension will be suspended for three years.
- Students who have previously incurred a three year suspension will be refused further registration in the College.

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

1 The status of students admitted on condition will be assessed at the end of the session in which such students complete their second full-course equivalent.

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

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

4 Upon their return from suspension, their academic status will be assessed as it is assessed for any other student returning from suspension.

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

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

Courses on other campuses

Courses on other campuses

Students are permitted to take some courses on other campuses of the University of Toronto subject to the following rules. Students may be withdrawn from courses after classes have started if their registration violates these rules.

Overall limits

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

Other than Arts and Science credits

Students are not permitted to register for courses in Faculties other than Arts and Science unless they have received the permission of the Sub-Committee on Standing or unless the courses are required by their Specialist, Major or College Programme.

Transfer to the Faculty of Arts and Science

Students who are contemplating transfers to other Colleges in the University should be aware that Scarborough College is in fact a

separate faculty and that the rules covering students at Scarborough College differ from those in the Faculty of Arts and Science. Students are urged to consult the Office of Admissions at 315 Bloor Street West to establish how they will be affected by transferring from one faculty of Arts and Science to another.

Study at other universities

Students who wish to take courses at another university and have credits transferred to the University of Toronto must receive permission from the University of Toronto to do so prior to taking the courses. Students who study at other institutions without the University of Toronto's approval in advance do so at their own risk in that the credits usually are not transferred after the fact. However, students should also be aware that duplication of previous study is not permitted. Students who study at another institution after leaving Scarborough College are required to supply official transcripts upon reenrolment. Grades attained at other universities may affect a student's academic

There are two types of programmes where credit transfer is considered. The Study Elsewhere programme allows a student to study full-time at an accredited university in a different cultural setting to enhance the student's educational experience. A Letter of Permission allows a student to study at a university similar in setting to the University of Toronto. The regulations governing the programmes are different.

(i) Letters of Permission

To take a course at another university, students must, in advance, apply for and receive a "Letter of Permission" from Scarborough College. Requests should be addressed to the Assistant Registrar -Admissions, Room S415. Requests should include the name of the university, the course number, title and description. Courses requested must be appropriate for Arts and Science degree credit at this university. In addition the student must give reasons why the Letter of Permission is necessary.

To be considered, a student must have completed the equivalent of one year of fulltime study and be in good standing. A maximum of 5.0 credits may be obtained on a Letter of Permission. If a student has

received more than 5.0 transfer credits upon admission, it is unlikely that a Letter of Permission will be allowed. Letters of Permission are not normally granted for study at institutions within Metropolitan Toronto and surrounding regions. Only 1.0 credit at the C or D level will be permitted to be taken on a Letter of Permission. A student who completes the final course(s) for the degree during the Winter Session may not apply to graduate at the June convocation but may apply for graduation at the November convocation.

A fee will be charged for each Letter of Permission.

Special Note: French Summer Immersion Programmes.

The Department of the Secretary of State in co-operation with the Ministry of College and Universities (in Ontario) sponsors the Summer Language Bursary Programme. Students interested in this six week immersion programme (in Quebec or elsewhere in Canada) should complete the bursary forms promptly upon distribution by the Ministry. (Check with Counselling Services in January for expected date of arrival.) Speak to the Assistant Registrar -Admissions and the Study-Elsewhere Supervisor in French for advice about choosing three institutions offering courses which most closely correspond to the curriculum at the University of Toronto. Submit the form to the Registrar's Office to verify registration and mail promptly to enhance your chances of obtaining your first choice of university. Once you know the university to which you have been accepted and at least three weeks before your departure, apply for a Letter of Permission. You will be advised of the level in which you must register in order to be eligible for the credit to be transferred.

(ii) Study Elsewhere year

To apply for a Study Elsewhere programme, students may obtain an application from the Assistant Registrar-Admissions or the Vice-Principal and Associate Dean. The application requires details about the proposed course of study and asks students to show how the intended studies will enhance their studies at Scarborough College. Students who intend to count the courses towards programme requirements must obtain the approval of the Programme Supervisor before submitting the application. Students normally apply for a Study Elsewhere year during the third year of a four year programme. However

students may apply after completing four full-course equivalents at Scarborough College. To be eligible a student must have a cumulative grade point average of 2.5 or better. Students must return to Scarborough College to complete the final year of study. A maximum of 5.0 full-course equivalents will be considered for transfer. Completed applications should be submitted to the Vice-Principal and Associate Dean by April 1. The proposed programme will be reviewed by the Study Elsewhere Committee.

Since there is often limited information about foreign universities, students should begin the process early in October. Most often students register at the host university and follow its courses for credit. It is possible that students may arrange to take University of Toronto independent study or supervised reading courses under supervision from University of Toronto offers Study Elsewhere opportunities at Aix-en-Provence, Granada, Laval and Siena but students may submit proposals for any accredited university that qualifies for a Study Elsewhere experience.

(iii) Grades and Accountability

To receive credit, the student must earn one full grade higher than the minimum passing grade (i.e. a C minus or better at universities using a grading scale similar to that of the University of Toronto). Grades are not recorded on transcripts and are not included in any grade point averages. The student must arrange for the host university to send an official transcript to Scarborough College promptly after completion of the course. Students who do not register or withdraw without academic penalty must arrange for a letter from the Registrar of the host university confirming this. Failure to meet this or the minimum grade requirement will result in the notation of "no credit" being entered on the student's transcript at Scarborough College.

Fees and aid

Students pay the appropriate fees to the host university and a Study Elsewhere fee will be charged by the University of Toronto. Students who would be eligible for financial assistance through the Ontario Student Assistance Programme for study at Scarborough College may be eligible for similar assistance in their Study elsewhere year. (Consult the Office of Student Awards.)

Degrees

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

Students who wish to graduate must notify the Office of the Registrar either through the Student Telephone Service or on a degree request form by 15 February for graduation at Spring Convocation or by 31 August for graduation at Fall Convocation. Students are advised, however, to make their requests in the first term of their final session in order that possible problems may be solved well in advance of Convocation.

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; a second degree will not be conferred but completion of the four-year degree requirements will be noted on the student's transcript. 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.

Students who have requested their degree will be mailed complete information about the time and arrangements for the Convocation.

Degrees are conferred at university convocations, held twice annually: the Spring Convocation held in June and the Fall Convocation held late in November. (Diplomas only indicate completion of a "Bachelor of Arts" or "Bachelor of Science" degree. No distinction is made on diplomas between three- and four-year degrees nor is programme indicated.)

Academic transcripts

The academic transcript is the official statement of the academic record of each student.

Contents

The transcript records the following information:

- 1 Information to identify the student: full name and university student number.
- 2 The student's academic record, listed chronologically by session.

- each course attempted, its abbreviated title, and its grade;
- the sessional grade point average;
- the cumulative grade point average at the end of the session;
- the student's academic status at the end of the session: in good standing, on academic probation, suspended for one year, suspended for three years, refused further registration, or suspension deferred;
- completion of degree and Programme requirements, and date of conferral of the degree;
- any academic honours awarded: scholarships, prizes or medals awarded by the College or by the University, inclusion on the Scarborough College Honours List, and graduation with high distinction or with distinction.

Ordering copies

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

Copies of transcripts may be requested in person or by letter only. As a student's signature is required to authorize release of the transcript (in order to protect confidentiality of records), telephone requests cannot be accepted.

To order copies of transcripts, students should visit the Office of the Registrar, or should write to: Office of the Registrar,

should visit the Office of the Registrar, should write to: Office of the Registrar, Scarborough College, University of Toronto, 1265 Military Trail, Scarborough, Ontario, M1C 1A4. Payment by mail should take the form of a cheque or money order payable to "The University of Toronto".

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

Copies of transcripts sent directly to educational institutions and other institutional recipients bear a replica signature of the Registrar and the official College seal. Copies sent directly to students do not bear the College seal and are marked "Student Copy". To prevent tampering, most institutional recipients insist that the transcript copy be sent directly to them.

Policy on access to student records

1. Preamble

- (a) Academic records of students are ultimately the property of the University, and it is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria and procedures which shall apply to the academic records of students of academic divisions of the University.
- (b) The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:
 - (i) Students, alumni and former students are allowed as great a degree of access to their own academic records as is academically justifiable and administratively feasible.
 - (ii) A student's right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned.
 - (iii) There will be a basic university-wide consistency in the kinds of information collected, recorded, filed and made available.
 - (iv) In keeping with the pluralistic nature of the University academic divisions may retain some flexibility in the implementation and application of the policies established within this document.
- (c) Individual divisional regulations and procedures on access to student academic records, including the statement in the divisional calendar concerning such, shall be reported by the Provost to the Committee on Academic Policy and Programs. Any subsequent revisions shall also be reported.
- (d) This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records.

2. For the purposes of this policy:

- (a) "student" means any person registered at the University for fulltime or part-time study in a program that leads to a degree or post-secondary diploma or certificate of the University or in a program designated as a program of post-secondary study at the University by the Governing Council or other University body having delegated authority. On the date of an enquiry or request relevant to this policy, persons who have been registered within a period of two calendar years shall be included in the provisions which relate to "students".
- (b) "alumnus or alumna" means any person who has received a degree or post-secondary diploma or certificate from the University, or any person who has completed one year of full-time studies or the equivalent thereof as determined by the Governing Council, towards such a degree, diploma or certificate, and is no longer registered at the University.
- "former student" means any person who is not a student or an alumnus or alumna who has been registered at the University in a program as defined in Section 2 (a), and is no longer registered at the University.
- "academic division" means a college, school, institute, faculty or other division of the University that has academic autonomy (i.e. the right to administer its own degrees, diplomas, certificates and other programs of study), subject only to the authority of the Vice-President and Provost, the President and the Governing Council.
- 3. Definition of the official student academic records

The official student academic record refers to information relating to a student's admission to and academic performance at this University. The "official student academic record"

shall contain:

(a) (i) Personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number

- (ii) Registration and enrolment information
- Results for each course and academic period.
- Narrative evaluations of a (b) (i) student's academic performance subsequent to his or her admission, used to judge his or her progress through an academic program.
 - Basis for a student's admission such as the application for admission and supporting documents.
 - (iii) Results of petitions and appeals filed by a student.
 - Medical information relevant to a student's academic performance which has been furnished at the request or with the consent of the student concerned.
 - Letters of reference which may or may not have been provided on the understanding that they shall be maintained in confidence.
 - (vi) Personal and biographical information such as address and telephone number.

The "official student academic record" shall be maintained by the University. For each type of information, academic divisions shall designate which document, form or medium contains the official version and how official copies of such information will be identified.

- 4. Access to official student academic records
 - (a) Access by a student (i) A student may examine and have copies made of his or her official student academic record defined in Section 3 above, with the exception of those portions of the record which comprise letters of reference (Section 3(b)(v)) which have been provided or obtained on the expressed or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record. (ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be complied with by the responsible authorities

within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine. (iii) A student has the right to challenge the accuracy of his or her official student academic record with the exception of the material specifically excluded in Section 4(a)(i) and to have his or her official student academic record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments does not appear on reports such as transcripts or statements of results. (iv) It is assumed that all documents relating to petitions and appeals (Section 3(b)(iii)) and not provided on the understanding that they shall be maintained in confidence will be retained within a division. and when needed by a student, will be made freely available. In addition, The Statutory Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceedings in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect thereto.

- (b) Access by alumni and former students
 - (i) An alumnus of alumna or a former student may examine and have copies made of the portion of his or her official student academic record as defined in Section 3(a) above.
 - (ii) A request from an alumnus or alumna or a former student to examine the portion of the official student academic record as defined in Section 3(a) shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.

- (iii) An alumnus or alumna or a former student shall have the right to challenge the accuracy of his or her official student academic record only under such terms and conditions as the academic division may determine and publish in the divisional calendar.
- (c) Access by University Staff and members of official University and divisional councils and standing committees Members of the teaching and administrative staff of the University and members of official University and divisional councils and committees shall have access to relevant portions of an official student academic record for purposes related to the performance of their duties. A staff member requesting information must have a legitimate need to have the requested information for the effective functioning of the position or office.

Access to medical information as defined in Section 3(b)(iv) shall be granted to members of the teaching and administrative staff only with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.) of such.

The Department of Alumni and Community Relations shall have access to appropriate personal information on students and alumni for the purpose of maintaining contact with alumni.

Access by University campus organizations Recognized campus organizations in the University of Toronto shall have access to the information referred to in Section 3(a)(ii) as well as to the sessional address and telephone number of students named by that organization for that legitimate internal use of that organization. The Students' Administrative Council, Graduate Students' Union. Association for Part-time Undergraduate Students, and The Newspaper shall be entitled to publish and distribute within the University community a University-wide directory of students (including undergraduate, graduate, full-time and part-time) giving the sessional address and

telephone number of students as long as there is a realistic provision for students to decline to consent to the disclosure of that information.

Names and addresses of students will also be provided to recognized campus organizations for the purpose of distributing information when all of the following conditions are met:

- The name and address information is not released to a third party.
- The name and address information is not used for commercial purposes.
- The organization proposes to distribute information which, in the opinion of the Assistant Vice-President (Planning) and University Registrar, the University would be willing to distribute if reimbursed by the organization.
- The information to be distributed is intended to provide information about the University and is not primarily advertisements for non-University organizations.
- The campus organization agrees to use the name and address information only for the specific purpose for which it was provided.
- (e) Access by others
 (i) By the act of registration, a
 student gives implicit consent for a
 minimal amount of information to
 be made freely available to all
 enquirers:
 - the academic division(s), degree program(s) and the session(s) in which a student is or has been registered,
 - degree(s) received and date(s) of convocation.
 - (ii) Any other information contained in the official student academic record (including any comments generated under Section 4(a)(iii) but with the exception of the material specifically excluded in Section 4(a)(i)), shall be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licensing or certification bodies, or the Ministry of Colleges and Universities for an annual enrolment audit, or otherwise under

- compulsion of law. Requests granted to any persons or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumni and former students contained in the portions of the academic record as defined in Section 3(a)(i) shall also be governed by the above provisions. (iii) General statistical material drawn from academic records not disclosing the identities of students, alumni and former students may be released for research and informational purposes authorized by the University by the academic division maintaining these records. (iv) In the event that a student, alumnus or alumna or a former student is deceased, the executors of his or her estate shall have access to the official student academic record under the same terms as would the individual if he or she were still living.
- Refusal of access The University reserves the right to withhold access to the statements of results and transcripts of students, alumni and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations. The University may also choose not to release the official diploma to such persons nor to provide written or oral certifications of degree on their behalf.
- 5. Custody and retention of official students academic records
 - (a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintaining official student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.
 - (b) Those portions of the official student academic record as defined in Section 3(a) shall be maintained

- permanently. Each academic division's records schedule shall specify the document, form or medium in which these records will be maintained.
- (c) Official student academic records preserved in the University Archives because of their archival value shall become open to researchers authorized by the University seventy-five years after a student has ceased to be registered.
- 6. The University's responsibilities with reference to the official academic records of students, alumni and former students
 - (a) Students shall be informed of University policy and divisional procedures with respect to their official student academic records.
 - (b) Academic divisions, administrative divisions which handle student academic records and campus organizations shall develop administrative procedures in support of this policy.
 - (c) Academic records shall be kept at all times under appropriate security.

Withdrawal

Withdrawal from a course

- Students may withdraw from courses without academic penalty up to the dates stated in the Academic Calendar on page 6.
- 2 A student may effect withdrawal from a course through the Student Telephone Service or by completing a registration change form and submitting the form to the Office of the Registrar. Where this is not possible, the student may write to the Office of the Registrar.
- 3 Where a student withdraws from a course by the appropriate deadline, no record of registration in the course is shown on the student's transcript.
- 4 Where students cease to complete course requirements, but do not withdraw officially by the deadline, a grade based on the marks awarded (including a zero for any incomplete work) will be recorded.
- Students who withdraw from courses by appropriate deadlines may be entitled to a fees adjustment. For full information, please refer to the fees schedule published each session. The amount of

- the fees adjustment is determined by the date upon which the course is dropped through the Student Telephone Service or the registration change form is received by the Office of the Registrar.
- Students who withdraw from courses through the Office of the Registrar will be given or mailed a receipted copy of their registration change form. Students should retain these copies until after they have received their statement of results for the particular session. Students who withdraw from courses through the Student Telephone Service should end their call by listing their courses to ensure that the withdrawal has been processed properly.

Withdrawal from the session

- 1 Students who wish to withdraw from the College for a given session do so by withdrawing from all courses by the deadlines specified in the Academic Calendar through the Student Telephone Service or by submitting a withdrawal form to the Office of the Registrar.
- 2 Students must also complete the following procedures:
 - return any borrowed books to the Library, pay any outstanding library fines, and receive clearance from the library;
 - return any equipment borrowed from the College Recreation Centre and surrender any recreation centre locker;
 - surrender any College locker and return (perhaps for a partial refund) any College parking permit;
 and
- surrender any laboratory locker and equipment.
- 3 Students who wish to withdraw from the College are advised to speak with a counsellor in the Counselling Services Office. The counsellor will advise students concerning the academic consequences of their withdrawal (deadline dates, eligibility for readmission, etc.), any fees adjustments, and repayment of Ontario Student Assistance.

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

University grading practices policy

regulations governing academic status.

The following is the text of the University grading practices policy. Text enclosed in square brackets [] has been added to clarify or interpret the policy as it applies to Scarborough College.

Purpose

The purpose of the University Grading Practices Policy is to ensure:

- (a) that grading practices throughout the University reflect appropriate academic standards;
- (b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
- (c) that grade scales, while remaining suited to the particular circumstances of every division, are compatible with each other;
- (d) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of policy

The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses), excluding courses in the School of Graduate Studies.

Amendment to policy

Amendments to the Policy shall be recommended to the Academic Board.

Changes to the divisional regulations on grading practices shall be forwarded to the

Committee on Academic Policy and Programs.

Distribution of policy

A copy of the Grading Practices Policy as well as the description of the grade scale used in a division and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and to all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part III is an administrative appendix available upon request from the Office of the Provost.

PART I: Grades

Meaning of grades

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has command of the course materials.

- 1.1 A grade assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.
- 1.2 Grades for each course shall be assigned with references to the following meanings (which may be expanded in the divisional regulations under Part II):

Excellent, Good, Adequate, Marginal, Inadequate, Wholly inadequate.

Grade scales

I.3 Once a judgement on the performance of the student has been made, the following grade scales may be used in accordance with divisional practice:
(a) a compatible letter grade scale;

(b) the numerical scale of marks; and/or

(c) the scales Honours/Pass/Fail and Credit/No Credit. [For the scale used at Scarborough College, see page 219.]

Grades vs. scores

- I.4 Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative scores may not be directly identified with the final grade. Grades are final only after review by the divisional review committee described below.
- 1.5 A table of correspondence and a translation table are defined in the Appendix for each of the letter grade scales referred to in 1.3(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.

Grade reporting

- I.6 Only one letter scale, as referred to in I.3(a) may be used in a division for assigning grades, but the numerical scale and the H/P/FL and CR/NCR scales, as referred to in I.3(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.
- 1.7 Grades in each course shall be assigned according to the practice of the division offering the course.

Grades in each course shall be reported according to the practice of the division administering the program in which the student is registered (the reporting division).

(a) Grades shall be reported as assigned when the division offering the course is also the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned from H/P/FL or CR/NCR scales.

(b) In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix.

(c) With the exception of H/P/FL and CR/NCR scales, two different letter grade scales may not be used on the same transcript.

- (d) A grade not reported in the form originally assigned by the offering division must on request be made available to the student in that form by the reporting division.
- 1.8 All non-grade symbols used in reporting course results must correspond to the University-wide standard. A list of the currently approved symbols and their meanings is given in the Appendix A.2.
- 1.9 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To that end, transcripts issued by every division of the University must indicate the relationship between the divisional grade scale, the grade meanings, the basic letter grade scale, whether refined or unrefined by plus and minus signs, and the scale of numerical marks as well as the translation table. A list of non-grade symbols and meanings shall also be included in the transcript.

PART II: Grading Procedures

Approval of grades

Grades shall be recommended by the instructor to the chair or division head. The grades shall then be reviewed and approved following the divisional review procedure. Grades shall not be reported or released to students as official until the divisional review procedure has been carried out. The divisional review constitutes final approval of grades except when grades are changed on appeal.

II.1 Divisional Review Committee

In each division, a committee chaired by the divisional head or a designate, and where appropriate, an additional committee structure. with the chairs (or their designates) departments or other academic units of divisions serving as chairs,

- (a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
- (b) formulate, approve, and administer the division's specific regulations concerning the grade scale or scales to be used, the assignment of nongrade symbols for course work, classroom procedures and approved methods of evaluation;
- (c) review, adjust and approve course grades recommended by instructors. The grades recommended for any individual student in the professional faculties may be adjusted according to his or her performance in the course or program as determined by the committee. The divisional committee has the final responsibility for assigning the official course grade.

II.2 Classroom procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices below.

(a) As early as possible in each course (and no later than the division's last date for course enrolment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be essays, tests, examinations, etc., the relative weight of these

- methods in relation to the overall score, and the timing of each major evaluation.
- (b) 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 a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department.
- (c) Student performance in a course shall be assessed on more than one occasion. No one essay, test, examination, etc. should have a value of more than 80% of the grade. Criteria for exemption may be determined by the division.
- Exempt from this requirement are advanced seminar courses or supervised research or supervised reading courses. In such courses more than 80% of the final grade may be based on a thesis, a research essay or project, or a comprehensive examination.]
- (d) In courses that meet regularly as a class there shall be an examination (or examinations) conducted formally under divisional auspices and worth (alone or in the aggregate) at least one-third of the final grade. Criteria for exemption may be determined by the division.
- [In A-level courses, at least one third of the final grade will be based upon a formal examination(s) in the Christmas examination period in December and/or in the final examination period in April and May (or in comparable examination periods in the Summer Session).
- In B-level, C-level and D-level courses, at least one third of the final grade will normally be based upon a formal examination(s). Alternatively, a supervised term test(s), valued at least one third of the final grade, may be substituted for the formal examination, upon the annual request of the instructor and approval of the appropriate Divisional Chair.

The following courses may be exempted from the requirement for examinations, upon annual request of the instructor and approval of the appropriate Divisional Chair: advanced seminar courses; supervised reading or research courses; field courses; and performance courses such as music performance or art studio courses. All courses which are exempted from the one-third examination requirement are reported annually to the Subcommittee on Curriculum & Standards of the Governing Council.

Oral Examinations. At the discretion of the instructor an oral examination may be required in conjunction with any piece of written work. At the examination, the student must defend the ideas advanced in the paper. The grade assigned for the paper may be substantially affected by the results of the oral examination.] The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.

Commentary on assessed term work and time for discussion of it shall be made available to students.

(f) At least one piece of term work which is a part of the evaluation of a student's performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last date for withdrawal from the course without academic penalty.

[The following two categories of courses shall be exempted from this requirement: field courses such as Anthropology and Geology; independent research and senior essay courses, which are by definition "one-on-one" courses with continual monitoring throughout the year, and large single end-of-year assignments which constitute the basis of the final mark.]

(g) Grades shall be recommended by the instructor in reference to the approved grade scales on the basis of each student's overall performance.

In formulating their own regulations divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example in place of such terms as "a simple majority" (b), "one-third of the final grade" (d), or in particularizing the evaluation methods referred to in (a) and (b).

II.3 Procedures in the event of disruptions

Principles

The following principles shall apply in the event of disruption of the academic program:

i) The academic integrity of academic programs must be honoured; and

ii) Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures

- (a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.
- (b) Individual instructors or multisection co-ordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.
- (c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken. Changes agreed upon by

- consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken
- (d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the class discussion, will provide the division head or chair of the department in multi-departmental faculties, with his or her recommendation, along with the results of any classroom votes. The chair or division head shall then make a decision.
- (e) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor such changes will be made by the divisional head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required. If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.
- (f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume students must be informed, at class, of any changes made during the disruption.
- (g) Where changes to the classroom procedures are made, students who do not wish to complete the course under the revised procedures may withdraw without academic penalty. This must be done prior to the last day of classes.
- (h) Where students have not attended classes that are meeting, they nonetheless remain responsible for the

- course work and meeting course requirements. However, where possible, reasonable extension of deadlines for the course requirements, or provision of make-up tests shall be made and reasonable alternative access to material covered should be provided.
- (i) A student who feels, owing to his or her special circumstances, that changes to the classroom procedure have unreasonably affected his or her grade may appeal the grade following the procedures as set out in each division.

II.4 Assessment in clinical and field settings

Divisions may make reasonable exemptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair humane, valid, reliable and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where student's performance in a clinical or field setting is to be assessed for credit, the evaluation must encompass as a minimum:

- (a) A formal statement describing the evaluation process, including the criteria to be used assessing the performance of students and the appeal mechanisms available. This statement should be available to all students before or at the beginning of the clinical or field experience;
- (b) A mid-way performance evaluation with feedback to the student;
- (c) Written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:
- (d) Clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures,

including the specific assessment procedures to be applied in any particular field or clinical setting.

Any exception from the above would require a divisional request with explanation for approval by the Governing Council.

II.5 Grade review and approval process

[The Divisional Review Committee of Scarborough College is the Sub-Committee on Marks Review.]

The following principles and procedures shall govern the grade review and approval process.

- (a) The distribution of grades in any course shall not be predetermined by an system of quotas that specifies the number or percentage of grades allowable at any grade level.
- (b) However, a division may provide broad limits to instructors setting out a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is not unusual. The division may request an explanation of any grades for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits.
- (c) The criterion that the
 Divisional Review Committee
 shall employ in its evaluation
 is whether the instructor has
 followed the University
 Grading Practices Policy. The
 Review Committee shall not
 normally adjust grades unless
 the consequences of allowing
 the grades to stand would be
 injurious to the standards of the
 University, or the class in
 general.

- (d) Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).
- (e) Where grades have been adjusted by a divisional committee, the students as well as the instructor shall be informed. On request, the students or the instructor shall be given the reason for the adjustment of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeal process.
- (f) Where a departmental review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the students or the instructor with a description as to the reason for the change and the methodology used.
- (g) Past statistical data, including drop-out rates, mean arithmetic average, etc., should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grades distribution is anomalous. Rather, the information should provide part of the basis for an overall review of grades in a division.
- (h) Where class grades have been changed, or when the Divisional Review Committee had reservations about the grades, the issue will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading Practices Policy is followed in future.

Appeals procedure

Every division shall establish divisional appeal procedures. Students may appeal grades according to the procedures established for that purpose in the division. The appeal may be made whether marks have been altered by the review process or not. These procedures shall be outlined in

the divisional Calendar, and available upon request at the faculty or registrar's office.

[For procedures for appeals concerning grades and grading practices, see "Procedures for requesting special consideration, petitions, and appeals" (page 235).]

II.6 Student access to examination papers

- (a) All divisions should provide access to copies of the previous years' final examination papers and other years' papers where feasible. Exemptions may be granted by an appropriate committee of the division or department.
- (b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.
- (c) All divisions should provide, in addition to the customary rereading of papers and the rechecking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A cost recovery fee should be set and returned where appropriate.

[For further details, please refer to "Procedures for requesting special consideration, petitions, and appeals" (page 235.]

II.7 Conflict of interest

Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

Examinations

Examinations are held at the end of both terms in each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal commitments.

Information regarding dates and times of examinations will not be given by telephone.

Students are responsible for reading the timetable carefully and appearing at the time specified. Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write day examinations.

Examination timetable conflicts

Students scheduled to write two examinations at the same time should report their conflicts to the Assistant Registrar (Secretariat and Scheduling) (Room S420A, 287-7540). Arrangements will normally be made for students to write both examinations on the same day, with a supervised break. Where the conflict involves a St. George Campus course, arrangements will normally be made for both examinations to be written at Scarborough College. Requests for such arrangements must be made no later than two full weeks before the commencement of examinations and will not be considered after that time.

Students with three consecutive examinations

Students scheduled to write examinations in three consecutive time slots (these are morning, afternoon, and evening) may request special arrangements. Requests for such arrangements must be made with the Assistant Registrar (Secretariat and Scheduling) no later than two full weeks before the commencement of examinations. Requests will not be considered after that time.

Special consideration regarding examinations

Students requesting special consideration because they are unable to write a final examination must submit a petition through the Office of the Registrar no later than the last day of the examination period. Petitions must be accompanied by a medical

certificate or other appropriate supporting evidence. Please refer to the information concerning petitions and medical certificates (page 235).

Identification cards

Students will be required to identify themselves at examinations by means of their University of Toronto photo identification card. Students who do not have this card should arrange to obtain one well in advance of the day of their first examination.

Examination room regulations

- 1 All students are advised to read the section of this Calendar titled Code of Behaviour on Academic Matters.
- 2 Students are advised to arrive at the examination room at least fifteen minutes before the scheduled examination time. Invigilators will begin the actual examination at the scheduled time.
- 3 No persons shall be allowed in an examination room during an examination except the students writing the examination and those supervising it.
- 4 Candidates shall bring their photo identification cards and place them in a conspicuous place on their desks.

 (Students registered in other Faculties or Colleges of the University shall bring their student cards.)
- 5 Bags and books are to be deposited in areas designated by the invigilator and are not to be taken to the examination desk or table. Students may dispose of their purses by placing them, closed, on the floor underneath their chairs.
- 6 The invigilator has the authority to assign seats to candidates.
- 7 No materials shall be brought into the examination room or used at an examination except those authorized by the Chief Presiding Officer or Examiner.
- 8 Candidates shall not communicate with one another in any manner whatever while the examinations are proceeding.
- Candidates bringing any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from an unauthorized source, are liable to be refused permission to write the remaining part of the examination or any subsequent examinations. Such

- candidates are also liable to the loss of academic credit for the course, to suspension, or to expulsion from the University.
- 1 0 Candidates shall not be permitted to leave the examination room except under supervision until at least half an hour after the examination has commenced.
- 1 1 Candidates shall not leave the examination room within the final ten minutes of an examination, during which time they shall remain quietly seated at their desks.
- 1 2 At the conclusion of an examination all writing within the answer books shall cease. The invigilator may refuse to accept the papers of candidates who fail to observe this requirement.
- 1 3 Examination books and other material issued for the examination shall not be removed from the examination room without the authority of the invigilator.
- 1 4 Smoking is not permitted in the examination rooms.

Procedures for requesting special consideration, petitions and appeals

Petitions for exceptions to the academic regulations

- Students may request that an exception to an academic regulation be made in their case. Such a request takes the form of a petition to the Scarborough College Sub-committee on Standing.
- 2 To enter a petition, the student prepares a written statement: stating clearly the special consideration requested; stating clearly the grounds upon which special consideration is requested, that is, the reason(s) why the student believes an exception to the rules is appropriate in this particular case; and appending documents to evidence special circumstances: medical certificates, etc.
- 3 Students who wish to submit medical certificates in support of their petitions must ask their physician:
 - to verify that the student was examined at the time of the illness;
 - to state the degree of disability involved;
 - to indicate the duration of the debility caused by the illness; and

- to indicate the physician's professional opinion as to whether the student should receive special consideration with his or her academic work on medical grounds.
- 4 Students are encouraged to seek advice from counsellors in Counselling Services before entering a petition.
- 5 Students are notified in writing of the Sub- committee's decision on their petition.

Requests for special consideration in a course

Term work

- 1 Students who are unable to write a term examination, or whose performance is adversely affected by illness or other extenuating circumstances, or who are unable (for these reasons) to submit term assignments by instructors' deadlines, must (except as noted below) speak with their instructor as soon as possible to request special consideration. Students who wish to appeal the decision of their instructor with respect to a request for special consideration, must, as soon as possible, speak with or write to the Chair of the division offering the course.
- 2 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. The petition must be submitted as soon as possible and no later than the last day of the relevant examination period.

Final examinations

1 Students who, for reason of illness or other extenuating circumstances, are unable to write a final examination, may request special consideration by means of a petition to the Sub-committee on Standing. Such petitions must be submitted as soon as possible and no later than the last day of the examination period.

- 2 When an examination has been missed because of illness, a student who requests special consideration must submit a medical certificate (see Petitions, 3, above) certifying in addition that:
 - the student was incapable of attempting the examination at the scheduled time.
- 3 When an examination has been missed because of domestic affliction or other extenuating circumstances, a student must submit appropriate documentation from a professional such as a social worker or lawyer, stating the nature and extent of the problem and certifying that the student was incapable of attempting the examination at the scheduled time.
- 4 Where students suffer illness or domestic affliction that does not prevent their writing an examination, they are required to attempt the examination. If, after receipt of their final grade (A/F course grades are posted in the Meeting Place early in the second term and a complete statement of results is mailed to students at the end of the session) they believe that their performance has been adversely affected by the illness or other problem, students may then request special consideration by means of a petition to the Sub-committee on Standing. Where the Sub-committee accepts the validity of a petition, students will normally be allowed to write a special examination during the next examination period. Where students expect to graduate at the end of a given session, special arrangements may be made for an immediate make-up examination. Students who are concerned that their performance may be affected by illness should visit a physician on the day of the examination to obtain both medical assistance and a medical certificate that may be submitted if a petition proves to be necessary. Petitions of this nature should be entered as soon as possible, but no later than:

Summer Sessions:

A & F courses - 31 July B, H, S & Y courses - 30 September

Winter Sessions:

- 31 January A & F courses B, H, S & Y courses - 30 June

Where students are allowed to rewrite final examinations, the amended grade will stand

whether it is higher or lower than the original grade.

- 5 Special examinations in Scarborough College courses are normally held in the next examination period:
 - Spring examinations are held in the August examination period.
 - Summer examinations are held in the Christmas examination period.
 - Christmas examinations are held in the Spring examination period.

Requests for checking of marks in a course

Term work

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

Final examinations

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

- 1 within six months of the relevant examination period, request from the Office of the Registrar a photocopy of their final examination. A copying fee is required at the time of the request.
- request a recheck of the calculation through the Office of the Registrar if students believe that an error has been made in the calculation of their examination mark. 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. Where the mark is changed, the amended grade will stand whether it is higher or lower than the original grade.

Final grade

Students who believe an error has occurred in the calculation of their final grade, may submit, through the Office of the Registrar, a request for a recheck of the calculation of the grade. This must be done within six months of the relevant examination period. A recheck fee is required at the time of the request. If an error is discovered and the grade is changed, the fee will be refunded.

Where the grade is changed the amended grade will stand whether it is higher or lower than the original grade. Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petition of marks in a course

Term Work

- 1 Students who wish to petition their grade on a term examination, an essay or another term assignment, must speak with the course instructor as soon as possible, and certainly before the end of
- 2 Students who wish to appeal the decision of an instructor with respect to the grading of term work may speak with or write to the Chair of the division offering the course.
- 3 Students who wish to appeal their grade on term work returned to students only after the end of term (that is, after the instructor submitted grades for the course), may enter a formal petition to the Sub-committee on Standing. See above for information about the petition procedure. Petitions must be entered within six months of the final examination period and will be treated in the same way as requests for rereading of a final examination (see below).

Final examinations

- 1 Students may request from the Office of the Registrar a photocopy of their final examination within six months of the relevant examination period. A copying fee is required at the time of the request.
- 2 After students have seen the photocopy of their final examination but within six months of the relevant examination period, they may submit a petition to the Sub-committee on Standing to request re-reading of their final examination. The Sub-committee will authorize a re-reading only where a student:
 - has articulated clear grounds for reconsideration of some part of the examination, addressing the substance of the answer in relation to the mark given it, 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 underevaluated substantially.

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

- Where the Sub-committee on Standing authorizes re-reading of any examination or item of term work, it is the responsibility of the division offering the course to arrange the rereading 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. Claims of prejudice must be supported by a detailed account of incidents and, if possible, confirmation from a third party.
- Where the Sub-committee on Standing authorizes re-reading of an examination or item of term work, the amended grade will stand, whether it is higher or lower than the original grade.
- Instructors are required to re-read the final examination (if any) and to recheck the calculation of term and final marks before submitting a failing grade for any student.

Petitions concerning grading practices in a course

- 1 Students who believe an instructor has violated a rule of the Grading Practices Policy are expected to discuss this complaint with the instructor at once.
- 2 If this discussion does not yield a satisfactory resolution to the problem, students may appeal the decision of the instructor to the Chair of the division offering the course.
- 3 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.
- 4 Students who wish to withdraw from a course after the last day to withdraw without academic penalty on the grounds that the Grading Practices Policy was violated must also submit a petition to the Sub-committee on Standing.

Petitions to correct errors in course registration or for withdrawal from courses

Petitions to correct errors in course registration or for withdrawal from courses should be submitted as early as possible and

- 30 June for Winter Session courses
- 30 September for Summer courses

Academic appeals

Students may appeal a decision of the Subcommittee on Standing, or the Subcommittee on Marks Review to the Subcommittee on Academic Appeals. An appeal to the Sub-committee on Academic Appeals must be commenced no later than six months after the decision (to be appealed) has been communicated in writing to the student. An appeal is commenced by filing a notice of appeal (on an appropriate form) through the Office of the Vice-Principal and Associate Dean of the College. Full information may be obtained from that

The Academic Appeals Committee of the Governing Council

Students may appeal a decision of the Subcommittee on Academic Appeals to the Academic Appeals Committee of the Governing Council. Such appeals must be commenced no later than ninety days after the decision (to be appealed) has been communicated in writing to the student. An appeal is commenced by filing a notice of appeal (on an appropriate form) to the Secretary of the Appeals Committee. Full information may be obtained from the Secretary to the Appeals Committee, Office of the Governing Council Secretariat, Room 106, Simcoe Hall, St. George Campus, telephone 978-8794.

University Ombudsperson

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

For information, advice, or assistance, contact the Office of the University Ombudsperson, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5H 1A1 (Telephone 978-4874).

Sexual Harassment Education, Counselling and Complaint Office

The University of Toronto does not tolerate any form of sexual harassment and is actively endeavouring to provide an environment free of it. All forms of sexual harassment, from verbal abuse to inappropriate touching to sexual assault, are covered by the University's policy. The Sexual Harassment Education, Counselling and Complaint Office was established to educate the University community on this issue. The Sexual Harassment Officer also provides counselling to those people who are the object of unwanted sexual attention and to those who are alleged to have sexually harassed someone, as well as implements the formal complaint procedure. Contacting the Sexual Harassment Officer is not a commitment to file a complaint and at any point a complaint can be dropped. The services of the Sexual Harassment Office are available to all members of the University. All complaints and requests for information will be kept completely confidential unless the individuals involved approve otherwise. Members of the University at Scarborough College may arrange an appointment at Scarborough Campus with the Sexual Harassment Officer or may go to the downtown office, whichever is more convenient. For an appointment, information, to arrange educationals or to file a complaint, contact the Sexual Harassment Education, Counselling and, Complaint Office, University of Toronto, 455 Spadina Avenue (at College), Room 302, Toronto, Ontario, M5S 2G7 (telephone 978-3908).

Code of behaviour on academic matters

A. PREAMBLE

The concern of the Code of Behaviour on Academic Matters is with the responsibilities of all parties to the integrity of the teaching and learning relationship. Honesty and fairness must inform this relationship, whose basis remains one of mutual respect for the aims

of education and for those ethical principles which must characterize the pursuit and transmission of knowledge in the University.

What distinguishes the University from other centres of research is the central place which the relationship between teaching and learning holds. It is by virtue of this relationship that the University fulfills an essential part of its traditional mandate from society, and, indeed, from history: to be an expression of, and by so doing to encourage, a habit of mind which is discriminating at the same time it remains curious, which is at once equitable and audacious, valuing openness, honesty and courtesy before any private interests.

This mandate is more than a mere pious hope. It represents a condition necessary for free enquiry, which is the University's life blood. Its fulfillment depends upon the well being of that relationship whose parties define one another's roles as teacher and student, based upon differences in expertise, knowledge and experience, though bonded by respect, by a common passion for truth and by mutual responsibility to those principles and ideals that continue to characterize the University.

This Code is concerned, then, with the responsibilities of faculty members and students, not as they belong to administrative or professional or social groups, but as they co-operate in all phases of the teaching and learning relationship.

Such co-operation is threatened when teacher or student forsakes respect for the other - and for others involved in learning in favour of self-interest, when truth becomes a hostage of expediency. On behalf of teacher and student and in fulfillment of its own principles and ideals, the University has a responsibility to ensure that academic achievement is not obscured or underminded by cheating or misrepresentation, that the evaluative process meets the highest standards of fairness and honesty, and that malevolent or even mischievous disruption is not allowed to threaten the educational process.

These are areas in which teacher and student necessarily share a common interest as well as common responsibilities.

B. OFFENCES

The University and its members have a responsibility to ensure that a climate that might encourage, or conditions that might enable, cheating, misrepresentation or unfairness not be tolerated. To this end all

must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student.

B.I.

- 1. It shall be an offence for a student intentionally:
 - (a) to forge or in any other way alter or falsify any document or evidence required for admission to the University, or to utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic
 - to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work:
 - to personate another person at any academic examination or term test or in connection with any other form of academic work;
 - to represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism:
 - "plagiarism". The present sense of plagiarism is contained in the original (1621) meaning in English: "the wrongful appropriation and purloining, and publication as one's own, of the ideas, or the expression of the ideas ... of another." This most common, and frequently most elusive of academic infractions is normally associated with student essays. Plagiarism can, however, also threaten the integrity of studio and seminar room, laboratory and lecture hall. Plagiarism is at once a perversion of originality and a denial of the interdependence and mutuality which are the heart of scholarship itself, and hence of the academic experience. Instructors should make clear what constitutes plagiarism within a particular discipline.
 - to submit for credit, without the knowledge and approval of the

- instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or programme of study in the University or elsewhere;
- to submit for credit any academic work containing a purported statement of fact or reference to a source which has been concocted.
- 2. It shall be an offence for a faculty member intentionally:
 - (a) to approve any of the previously described offences;
 - (b) to evaluate an application for admission or transfer to a course or programme of study by other than duly established and published criteria:
 - (c) to evaluate academic work by a student by reference to any criterion that does not relate to its merit, to the time within which it is to be submitted or to the manner in which it is to be performed.
- 3. It shall be an offence for a faculty member and student alike intentionally:
 - (a) to forge or in any other way alter or falsify any academic record, or to utter, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;
 - (b) to cause by action, threat or otherwise in a classroom, laboratory or examination room a disturbance, which the member knows or ought reasonably to know, obstructs the teaching of a course or the holding of a test or examination.
- 4. The following are offences to the extent that they relate to the teaching and learning relationship. It shall be an offence for a faculty member and student alike intentionally:
 - (a) to remove or copy or alter stored information such as books, film, data files or programs from a library, computer or other information storage, processing or retrieval system or its peripheral communications devices without proper authorization; or to mutilate, misplace, misfile, install or render inoperable any such information, program, system or device or in any other way to deprive immediately or at some

- point in the future without authorization another member or members from using or having access to any such resource;
- to use in a substantial way any information storage, processor or retrieval facility such as a library, computer, telephone, network or telecommunications system, or facsimile or photocopying equipment, or similar equipment, for any other purpose than that for which privileges of use or access have been granted;
- to access any University computer, library, or other information storage, processing or retrieval system or any personal academic file without proper authorization.
- 5. A graduate of the University may be charged with any of the above offences committed intentionally while he or she was an active student, when, in the opinion of the Provost, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

B. II. Parties to Offences

- 1. (a) Every member is a party to an offence under this Code who intentionally:
 - actually commits it;
 - does or omits to do anything for the purpose of aiding or assisting another member to commit the offence;
 - (iii) does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
 - abets, counsels, procures or conspires with another member to commit or be a party to an offence; or
 - abets, counsels, procures or conspires with any other person who, if that person were a member, would have committed or have been a party to the offence.
 - (b) Every party to an offence under this Code is liable upon admission of the commission thereof, or upon conviction, as the case may be, to the sanctions applicable to that offence.

- 2. Every member who, having an intent to commit an offence under this Code, does or omits to do anything for the purpose of carrying out that intention (other than mere preparation to commit the offence) is guilty of an attempt to commit the offence and liable upon conviction to the same sanctions as if he or she had committed the offence.
- 3. When a group is found guilty of an offence under this Code, every officer, director or agent of the group, being a member of the University, who directed, authorized or participated in the commission of the offence is a party to and guilty of the offence and is liable upon conviction to the sanctions provided for the offence.

C. Procedures in cases involving students

At both the divisional level and the level of the University Tribunal, the procedures for handling charges of academic offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those which ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

C.I.(a) Divisional Procedures

Note: Where a student commits an offence, the faculty in which the student is registered has responsibility over the student in the matter. In the case of Scarborough and Erindale colleges, the college is deemed to be the faculty.

- 1. No hearing within the meaning of Section 2 of the Statutory Powers Procedure Act is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.I.(a), and such discussions, meetings and determinations are not proceedings of the Tribunal.
- 2. Where an instructor has reasonable grounds to believe that an academic offence has been committed by a student, the instructor shall so inform the student immediately after learning of the act or conduct complained of, giving reasons, and invite the student to discuss the matter. Nothing the student says in such a discussion may

- be used or receivable in evidence against the student.
- 3. If after such discussion, the instructor is satisfied that no academic offence has been committed, he or she shall so inform the student and no further action shall be taken in the matter by the instructor, unless fresh evidence comes to the attention of the instructor, in which case he or she may again proceed in accordance with subsection 2.
- 4. If after such discussion, the instructor believes that an academic offence has been committed by the student, or if the student fails or neglects to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair or through the department chair to the dean [Vice Principal and Associate Dean. See also Section C.I.(b) 1.1
- 5. When the dean [Vice Principal and Associate Dean or the department chair, as the case may be, has been so informed, he or she shall notify the student in writing accordingly, provide him or her with a copy of the Code and subsequently afford the student an opportunity for discussion of the matter. In the case of the dean [Vice Principal and Associate Dean | being informed, the chair of the department and the instructor shall be invited by the dean [Vice Principal and Associate Dean to be present at the meeting with the student. The dean [Vice Principal and Associate Dean] shall conduct the interview.
- 6. Before proceeding with the meeting, the dean [Vice Principal and Associate Dean] shall inform the student that he or she is entitled to seek advice, or to be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn that if he or she makes any statement or admission in the meeting, it may be used or receivable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean [Vice Principal and Associate Dean] shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.I.(b), and that the dean [Vice

- Principal and Associate Dean] is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if any, made in such a meeting may be used or received in evidence against the student in any such hearing.
- 7. If the dean [Vice Principal and Associate Dean], on the advice of the department chair and the instructor, or if the department chair, on the advice of the instructor, subsequently decides that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the student's work shall be accepted for normal evaluation or, if the student was prevented from withdrawing from the course by the withdrawal date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence at a Tribunal hearing for another offence.
- 8. If the student admits the alleged offence, the dean [Vice Principal and Associate Dean or the department chair may either impose the sanction that he or she considers appropriate under Section C.I.(b) or refer the matter to the dean [Vice Principal and Associate Dean] or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean [Vice Principal and Associate Dean if the dean [Vice Principal and Associate Dean imposes a sanction.
- 9. If the student is dissatisfied with a sanction imposed by the department chair or the dean [Vice Principal and Associate Dean], as the case may be, the student may refer the matter to the dean [Vice Principal and Associate Dean] or Provost, as the case may be, for consideration.
- 10. If the student does not admit the alleged offence, the dean [Vice Principal and Associate Dean] may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a

- charge, the case shall then proceed to the Trial Division of the Tribunal.
- 11. Normally, decanal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this Section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.
- 12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course from the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean [Vice Principal and Associate Dean] to bar him or her from a facility. A student upon whom a sanction has been imposed by the dean [Vice Principal and Associate Dean] or the department chair under Section C.I.(b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.
- 13. A record of cases disposed of under Section C.I.(a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean [Vice Principal and Associate Dean] in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean [Vice Principal and Associate Dean] to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean [Vice Principal and Associate Dean] may contact the Secretary of the Tribunal for advice or for information

- on cases disposed of under Section C.II. hereof.
- 14. Where a proctor or invigilator, who is not a faculty member, has reason to believe that an academic offence has been committed by a student at an examination or test, the proctor or invigilator shall so inform the student's dean [Vice Principal and Associate Dean] or department chair, as the case may be, who shall proceed as if he or she were an instructor, by analogy to the other provisions of this section.
- 15. In the case of alleged offences not covered by the above and not involving the submission of academic work, such as those concerning forgery or uttering, library or computer material or library or computer resources, and in cases involving cancellation, recall or suspension of a degree, diploma or certificate, the procedure shall be regulated by analogy to the other procedures of this section.

C.I.(b) Divisional Sanctions

- 1. In an assignment worth 10 percent or less of the final grade, the department chair may handle the matter if:
 - (i) the student admits guilt; and
 - (ii) the assignment of a penalty is limited to at most a mark of zero for the piece of work.

If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean [Vice Principal and Associate Dean.

- 2. One or more of the following sanctions may be imposed by the dean [Vice Principal and Associate Dean] where a student admits to the commission of an offence:
 - (a) a written reprimand;
 - (b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
 - assignment of a grade of zero or failure for the piece of academic work in respect of which the offence was committed;

- (d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
- denial of privileges to use any facility of the University, including library and computer facilities;
- a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;
- assignment of a grade of zero or a failure for the course in respect of which the offence was committed;
- (h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed.
- 3. The dean shall have the power to record any sanction imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero for a course shall normally be recorded for a period of five years.
- 4. The Provost shall, from time to time, indicate appropriate sanctions for certain offences. These guidelines shall be sent for information to the Academic Board and attached to the Code as Appendix "C".

C.II.(b) Tribunal Sanctions

- 1. One or more of the following sanctions may be imposed by the Tribunal upon the conviction of any student:
 - (a) a written reprimand;
 - (b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
 - assignment of a grade of zero or a failure for the piece of academic

- work in respect of which the offence was committed;
- assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
- (e) denial of privileges to use any facility of the University, including library and computer facilities;
- (f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;
- (g) assignment of a grade of zero or a failure for any completed or uncompleted course or courses in respect of which any offence was committed;
- (h) suspension from attendance in a course or courses, a program, an academic unit or division, or the University for such a period of time up to five years as may be determined by the Tribunal. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed;
- recommendation of expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the President for a recommendation by him or her to the Governing Council. Expulsion shall mean that the student shall be denied any further registration at the University in any programme and his or her academic record and transcript shall record permanently this sanction. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed. If a recommendation for expulsion is not adopted, the Governing Council shall have the power to impose such lesser penalty as it sees fit.
- (i) (i) recommendation to the Governing Council for cancellation, recall or suspension of one or more degrees, diplomas or

- certificates obtained by any graduate; or
- (ii) cancellation of academic standing or academic credits obtained by any former student who, while enrolled, committed any offence which if detected before the granting of the degree, diploma, certificate, standing or credits would, in the judgement of Tribunal, have resulted in a conviction and the application of a sanction sufficiently severe that the degree, diploma, certificate, standing, credits or marks would not have been granted.
- 2. The jury shall have the power to order that any sanction imposed by the Tribunal be recorded on the student's academic record and transcript for such length of time as the jury considers appropriate.
- 3. The Tribunal may, if it considers appropriate, report any case to the Provost who may publish a notice of the decision of the Tribunal and the sanction or sanctions imposed in the University newspapers, with the name of the student withheld.

NOTE: The College has a policy on the use of calculators in tests and examinations. Students should consult with instructors about whether the use of calculators is permissible in their course and if so which models are approved. The use of an unauthorized calculator may be treated as an academic offence.

Code of behaviour on nonacademic matters

The Scarborough College Council has approved a code of behaviour regarding non-academic discipline. The code is not to be construed to prohibit peaceful assemblies and demonstrations, lawful picketing or to inhibit free speech. The procedures of Scarborough College regarding non-academic discipline shall be governed by the principles and rules of natural justice as exemplified by the provisions of the Statutory Powers Procedure Act, Ontario, 1971.

The full text of the code is available from the Office of the Registrar. Important parts of it from the point of view of the student are shown below:

1 Non-academic offences

It shall be an offence for any member of the University:

- to disrupt College activities by action, threat or otherwise;
- to enter or remain in any College building, facility, room or office with intent to damage, destroy or steal any property that is not their own;
- to destroy, deface or otherwise damage any property that is not their own;
- to assault another person, threaten any other person with bodily harm or with damage to such a person's property or, knowingly, and without just cause, to cause any other person to fear bodily harm or fear damage to his or her property;
- to create a condition which unnecessarily endangers or threatens the health, safety or well being of other persons or threatens the damage or destruction of property;
- to use a position of authority to attempt to force any other person into a sexual relationship, or to subject a person to unwanted sexual attention, or to punish a refusal to comply;
- to subject any other person to verbal or physical abuse or harassment or to discriminate against any other person on the basis of race, creed, colour, national origin, citizenship, religious or political affiliation or belief, sex, sexual orientation, marital status and/or family relationship and place of residence:
- to possess stolen College effects or, on College premises, any property stolen from any other member of the College community;
- to use any College facility, equipment or service contrary to expressed instructions of an authorized person or without just cause;
- to violate the parking or traffic regulations of the College;
- to violate the Residence Code of Behaviour:
- to bring a false charge against any member of the College community under this Code;
- to counsel or aid a person in the commission of an offence;

 if found guilty of an offence, to refuse to comply with a sanction imposed by the Appeals Board.

Conduct which constitutes a breach of the Criminal Code or other statute, or which would give rise to a civil claim or action, shall ordinarily be dealt with by the appropriate criminal or civil court. However, in cases in which criminal or civil proceedings would not be appropriate or would not adequately protect the good order and proper functioning of the College's programmes and activities, the safety, rights or property of its members or visitors, or the property of the University, proceedings may be brought under Scarborough College's disciplinary code. Nonetheless, internal proceedings shall be undertaken in addition to proceedings in the external courts only in serious cases where considered essential in the circumstances.

2 Sanctions

The following sanctions may be imposed by the College:

- reprimand;
- requirement to make restitution for any damage caused or otherwise to rectify any situation which the accused created or helped to create;
- conduct probation for a period not exceeding one year; requirement of security for good behaviour not exceeding \$100.00; fine not exceeding \$100.00; denial of access to specified College premises; combination of any of the above.

Part-time Studies

All students, whether part-time or full-time, are subject to the same admission standards, are governed by the same rules and regulations, and are required to satisfy the same degree requirements.

It is true, however, that students whose outside commitments prevent them from coming to the College during the day may find that they have less access to services in the University (although the Registrar's Office is open from 5:00 pm to 7:00 pm on class nights) and to the informal student network. Part-time students should try to make the time to develop contact with their fellow students and with faculty members, since this is an integral part of the University experience. When problems arise, evening students are encouraged to contact Counselling Services (287-7550). Counselling Services does not have regular evening hours but evening counselling appointments can be arranged. In addition, the Association of Part-time Undergraduate Students (APUS) serves as the voice of parttime students in the University and can be a source of help.

Admission to Scarborough College

The same admission standards are applied to both full-time and part-time students. More information on admission for mature students and application deadlines is in the Admissions section of this Calendar. Any questions or concerns can be addressed by contacting the Assistant Registrar - Admissions at 287-7529.

Awards

Part-time students are considered for most awards and scholarships on the same basis as full-time students. Some special awards and bursaries for part-time students are available through APUS. For further, information see the Awards section of this Calendar.

Academic Regulations and Degree Requirements

Part-time students are governed by the same regulations as any other student. Students are responsible for reading through the section of the Calendar dealing with Academic Regulations. When in doubt, students should contact the Office of the Registrar or Counselling Services for assistance in interpreting regulations and their applications in particular cases. We have noted below several regulations that

seem of particular relevance to part-time students. However, this list is by no means exhaustive. It must be emphasized that all rules and regulations apply to part-time students and that the fact that a particular rule is not quoted below in no way suggests that it will not apply.

- 1 Because part-time students are often involved in their studies for more years than full-time students, part-time students may more frequently find that degree or programme requirements change during their academic career. When changes occur, students are usually allowed, sometimes for a limited period of time, to continue under the old rules. This does not usually apply to rules other than degree or programme requirements.
- 2 Although the College attempts to make available to part-time students as many evening courses as possible, students may occasionally find that it is to their benefit to take courses on other campuses of the University. Students, of course, may not receive credit twice for courses that are deemed to be exclusions.
- 3 Part-time students are governed by the same regulations concerning the dropping of courses as all other students.
- 4 Students should be aware that special circumstances may on occasion justify an exception to the academic regulations. Requests for special treatment takes the form of a petition to Scarborough College Sub-committee on Standing. Students who believe that such special consideration is necessary should contact a counsellor in Counselling Services at the earliest possible time to discuss the appropriate form of action. Students should be aware that special consideration may not be granted and should avoid taking any action that will harm them if the petition is denied.

Choosing a Programme

Since most students must complete Programmes and since evening course offerings are limited, evening students should plan their course selection very carefully bearing in mind pre- and corequisites and the fact that certain courses may not be available in a particular session.

Programmes which are available in the evening are listed below with a brief description of the availability of courses.

Students are encouraged to consult their Programme Supervisor in planning their course selection. The summer timetable is available in the Registrar's Office normally in February.

Anthropology Specialist and Major Programme

Normally, one of the following core requirements is offered on a rotational basis [ANTB15Y, ANTB20, ANTB26] every year during the evening.

Economics Major Programme

Each of the four courses specifically required for the Economics Major [ECOA03Y, ECOB03Y, ECOB07Y, ECOB09Y] is offered in the evening at least once each year. ECOA03Y and ECOB03Y are offered in both summer and winter evening sessions each year. ECOB07Y and ECOB09Y are offered in each winter evening session, and one is usually offered in each summer session. Each winter session, and in some summer sessions, at least one other course at the B, C, or D level is offered.

English Specialist and Major Programme

English courses are, as far as possible, cycled as follows:
ENGA11Y - every two years.
ENGB01Y - every two years.
ENGB02Y - every four years
ENGC59Y - every four years.
Pre-1800 courses - at least every two years.
Post-1800 courses - at least one every year.
D-level courses - usually 3 half-courses every year.

History Specialist and Major Programme

HISA01Y offered in the evening normally every other year.
Upper level History courses - at least two offered every year.

Philosophy Specialist and Major Programme

PHLA01Y offered in the evening every other year.
PHLB01F, PHLB20F/S, PHLB50F,
PHLB60F/S - two of these courses are usually offered every year.

Political Science Major Programme

POLA50Y offered every second year. Core area courses [B61F/62S; B80Y; B86Y; B87Y] offered every three or four years. Others, including C & D level courses, occasionally.

Psychology Specialist and Major Programme

The following courses are normally offered annually in the evening and/or in the summer: PSYA01Y, PSYB01, and PSYB07, all of which are required for both programmes. As well, all courses in each of the content areas and all D-level courses appear in the evening or summer on approximately a 3-year cycle. Part-time students are also encouraged to check the offerings on the St. George campus, to which they have access and which they will find are not identical to those at Scarborough in a given year.

Sociology Specialist and Major Programme

SOCA01Y is offered in the evening every year.

For part-time students majoring in Sociology, the other required courses are offered in the following sequence in winter evening sessions:

SOCB03Y History of Social Thought SOCB01Y Methods in Social Research For part-time students specializing in Sociology, the other required courses are offered in the following sequence in winter evening sessions:

SOCB03Y History of Social Thought SOCB06H Social Statistics

SOCBOLY Methods in Social Research SOCCO5Y Contemporary Social Theory

SOCD42S Advanced Seminar in

SOCD43S Sociological Theory
Advanced Seminar in Research

SOCD43S Advanced Seminar in Research
Methods

For both Major and Specialist Programmes, the remaining courses required to fulfill the programme requirements are offered in winter and summer evening sessions.

Telephone Direct	ory:	Music	287-7191						
frequently called numbers		Management & Economic Division							
114111111111111111111111111111111111111		Secretary	287-7331						
Adhladia Assasiadian	207 7004	Chair's Office	287-7341						
Athletic Association (S.C.A.A.)	287-7096	Associate Chair	287-7348						
Bookstore	287-7035	Physical Sciences Divisi R-Wing Office S-Wing Office	on 287-7200 287-7195						
Cafeteria	287-7057	Chair's Office	287-7197						
Campus Police (Including Lost and Found)	287-7398	Physical Plant Services (Parking enquiries)	287-7575						
Career Counselling	A 07 7550	Principal and Dean	287- 7025						
& Placement	287-7559	Th. 1	ADE 644						
Cashier's Office	287-7014	Pub	287-7616						
a	***	Recreation Centre							
Computer Centre	287-7389	Counter (reservations, etc.)	287 -7 099						
	287-7390	Office (athletic programme	007 7000						
	287-7391	information)	287-7090						
Co-operative		Registrar's Office							
Programmes	287-7110	Enquiries	287-7537						
Counselling Services	287-7550	Admissions/Scholarships	287-7529						
Davidanmant & Duklia		Residences	007 7066						
Development & Public		Office	287-7366						
Relations Office Events enquiries	287-7080	Dean of Students in Residence	287-7150						
Drama	287-7175	Social Sciences Division Receptionist	287-7282						
Fees Department	978-2142	Chair's Office	287-7287						
Health Service	287-7065	Student Awards (OSAP)	978-7950						
High School Liaison (Tours)	287-7556	Student Councils Scarborough College Student Council (S.C.S.C.)	207 7047						
Humanities Division Classics, History,		Student Council (S.C.S.C.) U of T SAC Desk	287-7047 287-7615						
Philosophy Fine Art, English,	287-7117	Vice-Principal and Associate Dean	287-7566						
Humanities, Linguistics	287-7119		201-1300						
Languages	287-7120	Writing Centre	287-7562						
Chair's Office	287-7127		201 1202						
Intermedianal Condens		APUS	978-3993						
International Student Centre	978-2564								
Library		Scarborough Campus							
Inquiry, Circulation Desk	287-7482	Scarborough Campus University of Toronto							
Reference Desk	287-7480	1265 Military Trail Scarborough, Ontario, Canada MIC 1A4							
Life Sciences Division		ocaroorough, Ontano, Canada A	IIC IA4						
Biological Sciences,									
Psychology	287-7400								
Chair's Office	287-7397								

Index

- A -Academic Calendar 6 Summer Session 1992 Academic Calendar 6 Winter Session 1992/93 Academic Calendar 7 Academic Offences 239 Academic Regulations 213 Academic Standing 219 Academic Transcripts 222 Access to Student Records 223 Administration Co-operative Programme 53 Arts Administration Co-operative Programmes 56 Admissions 200 Admission Awards 206 Admission Requirements 200 Aegrotat Standing 219 Anthropology 17 Anthropology Major Programme 18 Anthropology Specialist Programme 17 Appeals Procedures 235 Application Dates 200 Application Procedures 200 Approved Individual Programmes 217 Arts 23 Arts Specialist Programme 23 Astronomy 24 Astronomy and Physics Major Programme 167 Astronomy, Physics and Mathematics Specialist Programme 159 Awards 206 - B -Biochemistry Major Programme 168 Biochemistry and Chemistry Specialist Programme 160 Biological Sciences 26 Biological Sciences Major Programme 26 Biological Sciences Specialist Programme 26 Bursaries 212 -C-Chemistry 36 Chemistry Specialist Programme 160 Chemistry and Biochemistry Specialist Programme 160 Child Care Centre 5 Classical Studies 41 Classical Studies Major Programme 41 Classical Studies Minor Programme 41 Code of Behaviour: Academic Matters 239 Non-Academic Matters 245 Cognitive Science Major Programme 47 Cognitive Science Specialist Programme 46

Computer Science 48 Computer Science Specialist Programme 161 Computer Science for Data Management Specialist Programme 49 Computer Science and Mathematics Specialist Programme 162 Computer Science and Physical Sciences Co-operative Programme 163 Computer Science and Physics Specialist Programme 163 Computer Science and Statistics Specialist Programme 162 Condition 219 Co-operative Programmes 53 Course Selection 215 Courses on other Campuses 220 -D-Debts to the University 214 Degrees 216 Degree Requirements 216 Development Studies Major Programme 124 Disabled - Special Services 214 Discipline: Academic Matters 239 Non-Academic Matters 245 Drama 65 Drama Major Programme 67 Drama Specialist Programme 66 Ecology and Environmental Biology Specialist Programme 27 Economics 69 Economics Major Programme 72 Economics Specialist Programme 70 Economics and History Specialist Programme 70 Economics and Management Specialist Programme 72 Economics and Mathematics Specialist Programme 72 Economics and Political Science Specialist Programme 71 Economics and Quantitative Methods Specialist Programme 72 Economic Theory and Management Specialist Programme 139 English Facility Requirement 200 English 78 English Major Programme 79 English Specialist Programme 78 Environmental Chemistry Specialist Programme 161 Extra Courses 219 - F -Faculty of Scarborough College 9 Final Examinations 234 Fine Art 86 Fine Art History Major Programme 86 Fine Art History Specialist Programme 86 Fine Art Studio Major Programme 91

Fine Art Studio Specialist Programme 90 French 94 French Language Major Programme 96 French Language and Literature Major Programme 96 French Minor Programme 96 French Specialist Programme 95 - G-General Interest Courses 17 Geography 102 Geography Major Programme 103 Geography Specialist Programme 103 Geology 108 Geology - Terrain and Environmental Earth Sciences Specialist Programme 165 German 110 German Language Major Programme 111 Grade Point Average 219 Grading Practices Policy 228 Graduation Prizes 211 Graduation with High Distinction and with Distinction 211 Greek 112 Greek and Roman History 113 - H -History 113 History Major Programme 113 History of Ideas Major Programme 119 History Specialist Programme 113 History of the College 4 Honours List 211 Humanities 119 Humanities College Programme 120 - I -Important Information 2 In-course Awards 207 International Development Studies 124 International Development Studies Co-operative Programme 60 Italian 126 Italian Language Major Programme 126 Italian Language and Literature Major Programme 126 - L -Language and Management Specialist Programme 138 Language Studies 130 Language and Literature Specialist Programme 129 Latin 133 Linguistics 133 Linguistics Major Programme 133 Linguistics Minor Programme 134 Linguistics Specialist Programme 133 - M -Management 136 Management Specialist Programme 138 Management and Economics Specialist Programme 139 Management and Economic Theory Specialist Programme 139

Management and Language Specialist Programme 138 Mathematics 144 Mathematical Sciences Major Programme 168 Mathematics Specialist Programme 166 Mathematics and Economics Specialist Programme 72 Mathematics and Statistics Specialist Programme 166 Modern Greek Minor Programme 41 Modern Languages Specialist Programme 130 Music 147 Music Major Programme 148 Music Minor Programme 148 - N -Neuroscience 151 Neuroscience Major Programme 153 Neuroscience Specialist Programme 152 Non-Academic Offences 245 N'Sheemaehn 5 -O-Officers of Scarborough College 8 Officers of the University 8 Oral Examinations 231 Overall Limits 219 Overall Standing 219 - P -Part-time Studies Information 247 Petitions Procedures 235 Philosophy 154 Philosophy Major Programme 154 Philosophy Specialist Programme 154 Physical and Computer Science Co-operative Programme 59 Physical Sciences Scarborough 159 Physical Sciences Specialist Programme 159 Physics 170 Physics and Computer Science Specialist Programme 163 Political Science 172 Political Science Major Programme 173 Political Science Specialist Programme 172 Political Science and Economics Specialist Programme 71 Probation 220 Programmes Listing 15 Programme Requirements: New Rules 217 Psychology 177 Psychology Major Programme 178 Psychology Specialist Programme 177 - R -Russian 187 - S -Sanctions 243 Scarborough College Honours List 211 Secondary School Prerequisites 203 Society, Values and Medicine Major

Programme 187

Sociology 187 Sociology Major Programme 188 Sociology Specialist Programme 187 Spanish 192 Spanish Language Major Programme 192 Spanish Minor Programme 193 Special Consideration 234 Special Students 227 Standing in a Course 219 Statistics 195 Stratford Summer Seminars 199 Students in Debt to the University 214 Study at other Universities: Letters of Permission 221 Study at other Universities: Study Elsewhere Year 221 - T -Telephone Directory: frequently called numbers 250 Term Work 236 Terrain and Environmental Earth Sciences Specialist Programme 165 - U -University Ombudsperson 238 - W -Withdrawal 227 Women's Studies Major Programme 197 Women's Studies Minor Programme 197

JANUARY						FEBRUARY						MARCH						APRIL									
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"Alter Egos" $2.5 \text{m} \times 2 \text{m}$ by Michelle Binnie, a fourth year student in the Fine Art Studio Programme at Scarborough College.

The text on the cover of the book reads:

"When I graduate I want to do something hard with my life."

Elysa Martinez

. . . has romantic thoughts that inevitably cause her much undue pain. She calls herself Misery and asks you for your understanding and compassion.