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Students are urged to study carefully pages 43 and 44 before reading the course descriptions. These pages contain important information concerning: the designation and numbering of courses; the meanings of prerequisite and co-requisite requirements and of exclusions; and information about supervised reading, supervised research and independent study courses.

A number of courses are jointly offered by different disciplines. These courses are described on page 46.

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

Where the prerequisite for a course is "Permission of Instructor," students may include those courses on their Registration Forms without an Authority Signature. However, students are urged to consult the Academic Calendar in order to ensure an understanding of the Registration Forms. In such courses, the instructor will receive in the first week of classes a list of all registrants, and those students without the instructor's permission will be withdrawn.

Students selecting supervised reading or research courses must obtain the permission of the instructor prior to registering in the course. Forms to verify the instructor's approval are included in the back of this Calendar, and must be submitted with the student's Registration Forms.

As instructors may not be available during the summer, students who wish to enroll in supervised reading or research courses, or in courses where the prerequisite is "Permission of Instructor," are urged to obtain the necessary permission before they leave campus in April/May.

Students who wish to take courses offered by the Faculty of Arts and Science on the St. George or Brindale campuses should consult page 45 of this Calendar.

Academic Regulations & Degree Requirements

Students are responsible for making themselves familiar with the contents of this Calendar, and particularly with the information contained in the sections of the Calendar dealing with the "Academic Calendar," academic regulations and degree requirements.

Curriculum Changes

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

Enrolment Limits

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

Registration

Students will receive from the Registrar's Office registration information and the schedule of fees as follows:

Returning students - With their statement of results
New students - With their letters of admission
- With a letter confirming their re-enrollment.

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

Academic Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 April</td>
<td>Last day for new students to apply for admission to the University wishing to enrol in 'Y', 'A', 'P' or 'B' courses.</td>
</tr>
<tr>
<td>15 May</td>
<td>Last day for new students to apply for admission to the University wishing to enrol in 'B' or 'G' courses.</td>
</tr>
<tr>
<td>12 May</td>
<td>Last day to register for 'Y', 'A', 'P', 'B', and 'G' courses.</td>
</tr>
<tr>
<td>15 May</td>
<td>Classes for 'Y', 'A', 'P', and 'G' courses begin.</td>
</tr>
<tr>
<td>19 May</td>
<td>Last day to add 'Y', 'P', or 'G' courses. Victoria Day - University closed.</td>
</tr>
<tr>
<td>9 June</td>
<td>Last day to withdraw from 'Y', 'P', or 'G' courses.</td>
</tr>
<tr>
<td>23 June</td>
<td>Last day of classes in 'A' and 'P' courses on St. George and Brindale Campus.</td>
</tr>
<tr>
<td>26 June</td>
<td>Examination week in 'A' and 'P' courses on St. George and Brindale Campus.</td>
</tr>
<tr>
<td>29 June</td>
<td>Last day of classes in 'Y' courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
<tr>
<td>30 June</td>
<td>Last day to register for 'B' and 'G' courses.</td>
</tr>
<tr>
<td>3 July</td>
<td>Dominion Day holiday - University closed. 'B' and 'G' courses begin.</td>
</tr>
<tr>
<td>4 July</td>
<td>Last day to add 'B' or 'G' courses. Last day to withdraw from 'Y' or 'B' courses.</td>
</tr>
<tr>
<td>7 July</td>
<td>Last day to withdraw from 'B' or 'G' courses.</td>
</tr>
<tr>
<td>20 July</td>
<td></td>
</tr>
<tr>
<td>7 August</td>
<td>Civic holiday - University closed.</td>
</tr>
<tr>
<td>14 August</td>
<td>Last day of classes for 'Y', 'A', 'P', and 'G' courses on St. George and Brindale Campus.</td>
</tr>
<tr>
<td>15 August</td>
<td>Examination week for 'Y', 'B', 'G', and 'R' courses on St. George and Brindale Campus.</td>
</tr>
<tr>
<td>18 August</td>
<td>Last day of classes in Scarborough Campus courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.</td>
</tr>
</tbody>
</table>
Winter Session, 1978-79

1 June
Last day for current students to request a transfer to another College.

30 June
Last day for new students to apply for admission to the University for the Winter Session 1978-79.

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

4 September
Labour Day - University closed.

5 September
Registration begins for students who did not complete all registration procedures previously.

Friday
8 September
Last day to register for 'F', 'P', 'R' and 'A' courses.

Monday
11 September
Classes for the 1978-79 Academic Year begin. 'F', 'G', 'L', 'P' and 'A' courses begin.

Friday
22 September
Last day to add 'F', 'G', 'L', 'P' or 'A' courses.

30 September
Last day for receipt of applications for Government Assistance Programmes.

Monday
3 October
Thanksgiving Day - University closed.

Friday
3 November
Last day to withdraw from first term 'F', 'G', or 'A' courses.

Tuesday
15 November
Last day for receipt of applications for University of Toronto 24-Course Awards.

Friday
8 December
Last day of classes in the first term.

Monday
11 December
Last day for submission of term assignments in 'F' and 'A' courses.

Monday
11 December
First day for mid-term examinations.

Friday
18 December
Term test and final examination period.

1979

Monday
9 January
Classes for the second term begin. Second term 'A' and 'G' courses begin. Last day to register for 'F', 'G' and 'A' courses.

Tuesday
10 January
Last day to add 'F', 'G' or 'A' courses. Last day to withdraw from 'F' and 'G' courses.

Friday
13 January
Last day for receipt of applications for Scarborough College Enrolment.

Monday
16 January
Reading Week - all classes cancelled.

Thursday
23 January
Last day to withdraw from 'F' or 'G' courses.

Friday
24 January
Good Friday - University closed.

Monday
27 January
Last day for submission of term assignments for 'F', 'G', 'A' or 'A' courses.

Monday
3 April
Annual examinations begin.

Friday
11 May
Annual examinations end.

Monday
18 June
University examination begins.
Division of Humanities

CLASSICS
A. Dodgshon, M.A. (Oxon), Associate Professor
J.J. Ferry, M.A., Ph.D. (Toronto), Associate Professor
J.R. Grant, M.A. (Edinburgh), Ph.D. (St. Andrew), Associate Professor
M.E. Izzet, M.A., Ph.D. (Toronto), Associate Professor
J.W. Jackson, M.A. (Cambridge), Associate Professor
J. McDonald, M.A. (Alberta), Ph.D. (N. Carolina), Assistant Professor

DRAMA
M.O. Schonberg, M.A. (Toronto), Lecturer
L.L. Spooner, M.A., M.H. (Toronto), Lecturer P-T

ENGLISH
W.J. Heward, M.A., B.T.B. (Toronto), Ph.D. (Leeds), Professor
J.W. Hargrave, M.A., Ph.D. (Toronto), Professor
M.R. Hatt, M.A., Ph.D. (Toronto), Associate Professor
A.O. Thomas, M.A., M.H. (Toronto), Associate Professor
E.P. Turner, M.A., M.H. (Toronto), Associate Professor
R.C. Wetherall, M.A. Ph.D. (Toronto), Associate Professor
S. Jackson, M.A., Ph.D. (Toronto), Assistant Professor
J. Kay, M.A., Ph.D. (Pennsylvania), Adv. Litt. (Paris), Assistant Professor
D.H. Mersereau, M.A. (Ottawa), M.A. (Missouri), Ph.D. (McGill), Assistant Professor
A.E. Purcell, M.A. (McGill), Ph.D. (Birmingham), Assistant Professor
Z. Vishek, M.A., Ph.D. (Ireland), Assistant Professor

FINE ART
G. Savistki, M.A., Ph.D. (Toronto), Associate Professor P-T
R. Samoloff, M.A., Ph.D. (Toronto), Assistant Professor
S. Amores, M.A. (St. George Williams), Lecturer P-T
J. Campbell, B.F.A. (McMaster), Lecturer P-T
R.C. Shaw, M.A., Ph.D. (Bryn Mawr College), Lecturer P-T
D. Smithers, S.F.A. Kansas City Art Inst., Deputy Director

FRENCH
G.P. Fetherly, L.L.S. (Montreal), Ph.D. (Yale), Professor
W.J. Gencroft, M.A. (Montreal), Ph.D. (Harvard), Associate Professor
J.A. Curtis, M.A., M.Phil. (Toronto), Associate Professor
L.S. Duquette, B.A. (LaSalle), Ph.D. (Bonn), Associate Professor
C.B. Jegou, L.L.S. (Paris), Ph.D. (Wayne State), Associate Professor
W.J. Wittern, M.A. (Auckland), Ph.D. (Oceania), Associate Professor
P.C. Ross, B.A., M.B.A., Ph.D. (Toronto), Associate Professor
S.R. Knapton, B.A. (Toronto), Ph.D. (Columbia), Assistant Professor
S. Miller, M.A. (Toronto), Ph.D. (Strasbourg), Assistant Professor
F. Nagler, M.A. (Lyon), Tutor

HUMANITIES
G.F. Richardson, B.Arch., B.D. (Toronto), Ph.D. (Cambridge), Associate Professor
T. Blyth, M.A., Ph.D. (Winnipeg), Lecturer

ITALIAN
A. Franceschetti, Dott. in Lett. (Padua), Ph.D. (Columbia), Associate Professor
G. Kall, M.A., Ph.D. (Toronto), Lecturer
D. McQuillie, A.B. (St. Peter's, Milan), Lecturer

LINGUISTICS
P.H. Balsem, M.A., Ph.D. (W.U.), Professor
E. Kunick, M.A., Ph.D. (Chicago), Associate Professor
J.D. Woods, B.A. (Bowdoin Coll.), Ph.D. (Mass.), Associate Professor
D.M. Worth, M.A. (Cornell), Ph.D. (Michigan), Assistant Professor
H. Balducci, M.A. (San Diego), Special Lecturer P-T

MUSIC
T.J. McGee, M.A. (Connecticut), Ph.D. (Yale), Assistant Professor

PHILOSOPHY
H. Honneger, B.A. (Cornell), Ph.D. (Princeton), Professor
J.R. Schu, M.A. (St. Louis), Ph.D. (Michigan), Professor
A. Goldshy, M.A. (McGill), B.Phil. (Oxon), Assistant Professor
P.W. Gough, M.A. (Oxford), Ph.D. (Toronto), Associate Professor
E.R. Schaper, M.A., Ph.D. (Toronto), Associate Professor
D.J. Neher, B.A., Ph.D. (Texas), Associate Professor
R.P. Thompson, M.A. (Toronto), Lecturer
Divisions of Science

ANTHROPOLOGY
Koedt, R.C., B.Sc., M.S. (McMaster), Ph.D. (Illinois), Professor
Krohnberg, P.A., B.Sc., M.Sc. (Queen's), Ph.D. (Manchester), Associate Professor
Martin, J.G., B.Sc., M.C. (Toronto), Ph.D. (Cambridge), Associate Professor
Oyer, C.C., B.Sc. (Bishop's), M.Sc., Ph.D. (Toronto), Lecturer

BIOLOGY
F.A. Urquhart, M.A., M.A., Ph.D. (Tor.), Professor Emeritus
C. Barlow, B.Sc., B.Ed., Ph.D. (Collège de), Professor
J. MacLachlan, B.Sc., B.Ed., M.Sc. (Cambridge), Professor
G. Bill, B.C.E., M.Sc., Ph.D. (California, Los Angeles), Professor
A.E. Weatherby, Ph.D., B.Ed., B.Sc. (B.C. College), Professor
S. Williams, B.Sc., Ph.D. (Edinburgh), Professor
J.B. Brown, B.Sc., Carleton, Ph.D. (Toronto), Professor
I. Campbell, B.Sc., B.Sc. (Melbourne), Professor
R. Douglass, B.Sc., B.Ed., B.Sc. (Toronto), Professor
R. F. Lines, B.Sc., B.Ed., B.Sc. (Toronto), Associate Professor
G. S. Israelson, B.Sc. (London), Ph.D. (Queen's), Associate Professor
J. K. Tait, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor
G. R. Aitken, B.Sc., M.Sc. (Munich), Ph.D. (Cambridge), Associate Professor
D. Williams, B.Sc., M.Sc., B.Ed., B.Ed. (Toronto), Assistant Professor
J. Silver, B.Sc., Ph.D. (C.U.TY), Assistant Professor
C. Pickett, B.Ed., Ph.D., Assistant Professor
R. Webb, B.Sc., M.Sc., York Tutor
C. Ny, B.Sc., M.Sc., N.U.B. Tutor

COMPUTER SCIENCE
Noyes, G., B.Sc. (Edinburgh), M.Sc. (Cambridge), Ph.D. (Toronto), Assistant
Professor
Noyes, G., B.Sc. (Edinburgh), M.Sc. (Cambridge), Ph.D. (Toronto), Assistant
Professor

CHEMISTRY
Dove, J.E., B.Sc., M.A., D.Phil. (Oxford), Professor and Chairman of
the Physical Sciences Group
Duthie, R.T., B.Sc. (McGill), Professor
Hall, G.B., B.Sc., M.A., Ph.D. (Toronto), Associate Professor
Macleod, R.G., B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor
McKeen, A.R., B.A., M.Sc. (Toronto), Associate Professor
Ritchie, W.H., B.Sc. (Toronto), Associate Professor

COMPUTER SCIENCE
Noyes, G., B.Sc. (Edinburgh), M.Sc. (Cambridge), Ph.D. (Toronto), Assistant
Professor
Noyes, G., B.Sc. (Edinburgh), M.Sc. (Cambridge), Ph.D. (Toronto), Assistant
Professor

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

MATHMATICS
Illocco, E.M., B.Sc. (Montreal), Professor
Malin, J.S., B.Sc. (Toronto), Ph.D. (Cornell), Associate Professor
Kaye, P., M.Sc. (Edinburgh), Ph.D. (Dr. Andrew's), Associate Professor
 Pipes, I., B.Sc. (Oxford), Ph.D. (Cambridge), Associate Professor
Lash, E.J., B.Sc. (Toronto), Associate Professor
Mandelbrod, B. Sc. (Univ. of British Columbia), B.Sc. (McGill), Associate
Professor
Pierce, J.L., B.Sc. (Stanford), B.Sc. (Calif), Associate Professor
Sharp, W.H., M.Sc. (Toronto), Ph.D. (Oxford), Associate Professor
Walker, J.R., B.Sc. (Toronto), M.Sc. (British Columbia), Ph.D. (Toronto), Associate
Professor
Schwarze, R.J., B.Sc. (Toronto), B.Sc. (Calif), Associate Professor
Taylor, R., B.Sc. (Calif), B.Sc. (Toronto), Associate Professor

PHYSICS
Crawford, H., M.A., M.Sc. (Saskatoon), Ph.D. (Calgary), Professor
Griffin, A., B.Sc. (McGill), Professor
Macleod, R.G., B.Sc., M.A., Ph.D. (London), Professor
Moore, J.R., B.Sc. (Edinburgh), D.Phil. (Oxford), Professor

ASSOCIATE PROFESSOR
Baker, R.H., B.A. (McGill), M.Sc. (Toronto), M.Sc. (Toronto), Ph.D. (Illinois), Associate
Professor
King, J.R., B.A. (Toronto), Ph.D. (Saskatchewan), Associate Professor
Lee, N.G., B.A., Ph.D. (Canatb.), Associate Professor
Pett, J.M., B.A. (Toronto), Ph.D. (Cambridge), Associate Professor
Willett, C.B., B.Sc. (Oxford), Senior Tutor
Academic Regulations & Degree Requirements

1. Definitions

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

2. To Pass a Course

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

III. Selection of Courses and Programmes of Study

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

(a) The degree requirements and other regulations set out below must be satisfied.

(b) All prerequisite and corequisite requirements must be met.

(c) No student may enrol for credit for a course which he is not recommended (or equivalent) to a course which the student has already passed.

(d) Students may enrol for credit in no more than seven A-level courses.

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

(a) The usual load for a full-time student in the Winter Session is five courses.

(b) The usual load for a student in the Summer Session is two courses.

(c) A student who is on probation may enrol in no more than five courses in the Winter Session or one and one-half courses in the Summer Session.

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

(a) To include courses from at least two divisions (Humanities, Science, Social Sciences) among their first two courses;

(b) To include some advanced work based on earlier studies, by inclusion of at least two C-level courses within a two-year course degree programme;

(c) To consider taking, where appropriate, at least a half course of independent study or supervised reading in an area related to their other studies.
(a) All B level and C level courses in the following disciplines: astronomy, biological science, chemistry, computer science, geology, mathematics, physics and psychology.

(b) The following courses in anthropology: ANTH11, ANTH12, ANTH14, ANTH15, ANTH21, ANTH22, ANTH25, ANTH26, ANTH28, ANTH41, ANTH43, ANTH44, ANTH45, ANTH46.

(c) The following courses in geography: GEOG06, GEOG07, GEOG08, GEOG09, GEOG19, GEOG20, GEOG21, GEOG22. In addition, the following courses may be used to fulfill Bachelor of Science requirements for students researching or reading in appropriate scientific areas of geography: GEOG23, GEOG24, GEOG25, and GEOG07.

Psychology students should note that ZABS5 is not normally credited towards the science requirement for the Bachelor of Science, except in the following joint courses UNK40, UNK41, UNK42, UNK43, UNK44, and ZABS5 (76/77 only) may be considered for science credit.

IV. Standing in a Course

1. Students are assigned a grade in each course as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
<th>Value</th>
<th>Grade definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 - 100</td>
<td>A</td>
<td>4.0</td>
<td>Exceptional performance with strong evidence of original thinking, good organization, capacity to analyze and synthesize; a superior grasp of the subject matter with sound critical evaluations; evidence of an extensive knowledge base.</td>
</tr>
<tr>
<td>77 - 79</td>
<td>B+</td>
<td>3.3</td>
<td>Good performance with evidence of a grasp of the subject matter, some evidence of critical capacity and analytic ability, and reasonable understanding of the relevant issues under examination; evidence of familiarity with the literature.</td>
</tr>
<tr>
<td>73 - 76</td>
<td>B</td>
<td>3.0</td>
<td>Minimal acceptable performance; some evidence of familiarity with the subject matter; some evidence that critical and analytic skills have been developed.</td>
</tr>
<tr>
<td>57 - 59</td>
<td>D+</td>
<td>1.3</td>
<td>Inadequate performance in the subject; evidence of familiarity with only some of the subject matter; the presence of some critical and analytic skills.</td>
</tr>
<tr>
<td>50 - 52</td>
<td>D</td>
<td>1.0</td>
<td>Inadequate performance in which there is little evidence of even a superficial understanding of the subject matter; in which there is almost no evidence of critical and analytic skills, with limited or irrelevant use of literature.</td>
</tr>
</tbody>
</table>

Pass/Fail Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Pass</th>
<th>No Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 - 49</td>
<td>E</td>
<td>0.3</td>
</tr>
<tr>
<td>0 - 34</td>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>
(2) Grades of "B," "C" and FAIL are failing grades, yielding no standing in a course or for degree credit.

(3) The Sub-committee on Standing may, on petition, assign the following grades, which have no grade point value:
   AOC Augmenting standing - awarded on the basis of very good work.
   SD Standing Deferred - in cases where an extension of time to complete a course is granted on the basis of medical or similar evidence.

(4) The Sub-committee on Standing may, on petition, allow a student to re-take a course which he has already passed or to take a course which is not normally permitted (for example, an eighth A level course). In such cases the course will be designated as an extra course not for degree credit. Extra courses have no grade point value.

(5) Students may withdraw from courses until the following deadlines:
   Year long courses ("Y" and "Y") 7 July 1979 15 Jan. 1980
   First term courses ("F" and "A") 9 June 1978 3 Nov. 1978
   Second term courses ("G" and "G") 28 July 1978 2 March 1979

(6) Students may not normally repeat any course which they have already passed. There are no supplementary examination privileges in the case of a successful petition on the basis of illness or otherwise compelling circumstances. Students permitted to write special examinations.

V. Overall Standing

(1) Such a sessional and a cumulative grade point average will be calculated for each student at the end of each session. and

(a) A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half-course are added together and the result then divided by the number of full courses for which credits have been obtained.

(b) A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer).

(c) A cumulative grade point average is calculated on the basis of all courses taken.

(2) A student's academic status shall be determined as follows:

(a) A student who maintains a cumulative grade point average of 1.50 or better shall be said to be in good standing.

(b) A student shall be placed on probation as follows:
   (1) A student shall be placed on probation who has attempted at least four full courses (or equivalent) in the College and has a cumulative GPA of less than 1.50.

(c) A student returning from suspension (under (d) (11)) below or under any provision in previous College rules) shall be placed on probation again.

(c) A student shall be placed on probation if he achieves a cumulative GPA of 1.50 or more.

(d) A student shall be dismissed for any reason if either (i) he has attempted at least 60 full courses (or equivalent) since most recently having been placed on probation and has a cumulative GPA of less than 1.50. (ii) A student shall be dismissed if he has a cumulative GPA of less than 1.50. (iii) A student shall be dismissed if his probationary GPA is less than 2.00 or if the provisions of any other policies.

(e) If the student has incurred no previous suspensions, he shall be suspended for one year.

(f) If the student has previously incurred a one year suspension, he shall be suspended for three years.

(g) If the student has previously incurred a one year suspension he shall be referred further registration in the College.

(3) The rules governing determination of academic status in (2) above were introduced as of the beginning of the 1978 Winter Session. No student who began his degree program at St. Francis College before the 1978 Winter Session will be suspended or referred for further registration through application of these new rules. If that penalty (or a more severe penalty) would not also have been applied under the old rules as published in the Appendix to this section of this Calendar.

(a) In such cases, the student's academic status will be determined by application of the old rules, except that student may not be granted application of the old rules to prevent penalty at the end of a given session if application of the old rules would have caused that same penalty (or a more severe penalty) in an earlier session.

(b) No petition will be granted to prevent a student from being placed on academic probation under the new rules on the grounds of disadvantage owing to transition to the new rules.

(c) Until the end of the 1979-80 Winter Session, the Office of the Registrar will automatically apply both the old and the new rules to students about to be suspended or referred for further registration to determine which is more favorable. Beginning the 1980 Summer Session, students may request application of the old rules by means of a petition.

VI. Academic Records

(1) Transcripts

The blue of the student's academic record reports: the student's notification record; the student's academic performance (including records of the completion of transfer and national scholarships, major and minor course requirements, and other relevant academic achievements); the completion of a five-year and a twenty-eight month degree program; the completion of a major program or other program of study outlined in this Calendar.

A student may obtain copies of his academic record subject to reasonable notice and for the following fee: one dollar for the first copy and fifty cents for each additional copy.

(2) Grades of "B," "C" and FAIL are failing grades, yielding no standing in a course or for degree credit.

(3) The Sub-committee on Standing may, on petition, assign the following grades, which have no grade point value:

   AOC Augmenting standing - awarded on the basis of very good work.

   SD Standing Deferred - in cases where an extension of time to complete a course is granted on the basis of medical or similar evidence.

(4) The Sub-committee on Standing may, on petition, allow a student to re-take a course which he has already passed or to take a course which is not normally permitted (for example, an eighth A level course). In such cases the course will be designated as an extra course not for degree credit. Extra courses have no grade point value.

(5) Students may withdraw from courses until the following deadlines:

   Year long courses ("Y" and "Y") 7 July 1979 15 Jan. 1980
   First term courses ("F" and "A") 9 June 1978 3 Nov. 1978
   Second term courses ("G" and "G") 28 July 1978 2 March 1979

(6) Students may not normally repeat any course which they have already passed. There are no supplementary examination privileges in the case of a successful petition on the basis of illness or otherwise compelling circumstances. Students permitted to write special examinations.

V. Overall Standing

(1) Such a sessional and a cumulative grade point average will be calculated for each student at the end of each session, and

(a) A grade point average is calculated as follows: the grade points earned in each full course and one-half the grade points earned in each half-course are added together and the result then divided by the number of full courses for which credits have been obtained.

(b) A sessional grade point average is calculated on the basis of all courses taken in a given session (winter or summer).

(c) A cumulative grade point average is calculated on the basis of all courses taken.

(2) A student's academic status shall be determined as follows:

(a) A student who maintains a cumulative grade point average of 1.50 or better shall be said to be in good standing.

(b) A student shall be placed on probation as follows:
   (1) A student shall be placed on probation who has attempted at least four full courses (or equivalent) in the College and has a cumulative GPA of less than 1.50.

(c) A student returning from suspension (under (d) (11)) below or under any provision in previous College rules) shall be placed on probation again.

(c) A student shall be placed on probation if he achieves a cumulative GPA of 1.50 or more.

(d) A student shall be dismissed for any reason if either (i) he has attempted at least 60 full courses (or equivalent) since most recently having been placed on probation and has a cumulative GPA of less than 1.50. (ii) A student shall be dismissed if he has a cumulative GPA of less than 1.50. (iii) A student shall be dismissed if his probationary GPA is less than 2.00 or if the provisions of any other policies.

(e) If the student has incurred no previous suspensions, he shall be suspended for one year.

(f) If the student has previously incurred a one year suspension, he shall be suspended for three years.

(g) If the student has previously incurred a one year suspension he shall be referred further registration in the College.

(3) The rules governing determination of academic status in (2) above were introduced as of the beginning of the 1978 Winter Session. No student who began his degree program at St. Francis College before the 1978 Winter Session will be suspended or referred for further registration through application of these new rules. If that penalty (or a more severe penalty) would not also have been applied under the old rules as published in the Appendix to this section of this Calendar.

(a) In such cases, the student's academic status will be determined by application of the old rules, except that student may not be granted application of the old rules to prevent penalty at the end of a given session if application of the old rules would have caused that same penalty (or a more severe penalty) in an earlier session.

(b) No petition will be granted to prevent a student, from being placed on academic probation under the new rules on the grounds of disadvantage owing to transition to the new rules.

(c) Until the end of the 1979-80 Winter Session, the Office of the Registrar will automatically apply both the old and the new rules to students about to be suspended or referred for further registration to determine which is more favorable. Beginning the 1980 Summer Session, students may request application of the old rules by means of a petition.

VI. Academic Records

(1) Transcripts

The blue of the student's academic record reports: the student's notification record; the student's academic performance (including records of the completion of transfer and national scholarships, major and minor course requirements, and other relevant academic achievements); the completion of a five-year and a twenty-eight month degree program; the completion of a major program or other program of study outlined in this Calendar.

A student may obtain copies of his academic record subject to reasonable notice and for the following fee: one dollar for the first copy and fifty cents for each additional copy.
A student may request copies of his transcript in person or by letter. As a student's signature is required to authorize release of his transcript, telephone requests cannot be honoured.

Students who wish to order copies of their transcript by letter should write, include a cheque payable to the "University of Toronto", to: Registrar's Office, Scarborough College, 1265 Military Trail, New Tull, Ontario, M1C 1A4.

(3) Degrees

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

A student may elect to receive his degree after having completed the requirements for the fifteen course degree or after having completed the requirements for the twenty course degree.

A student who has elected to receive his degree after meeting the requirements for the fifteen course degree may choose to complete the requirements for the twenty course degree; completion of the twenty-course degree requirements will be noted on the student's transcript, but a second degree will not be conferred.

A student who elects to receive his fifteen course degree first to notify the office of the Registrar well in advance of the appropriate University Convocation. Forms for this purpose will be mailed to all eligible students.

A student who has completed the requirements for the twenty course degree will automatically have his name placed upon the graduation list to receive his degree at the next University Convocation unless he has already received his degree after having completed the fifteen course degree requirements. Nonetheless, to prevent any possible errors a student who elects to receive his twenty course degree should notify the office of the Registrar well in advance of the appropriate Convocation. Forms for this purpose will be mailed to all eligible students.

VII. "Courses on the St. George and Erindale Campuses"

Students may request registration in courses offered by the Faculty of Arts and Science at the St. George and Erindale Campuses, subject to the following rules.

(1) The majority of a student's courses at all times must be Scarborough College courses. This refers to the majority of the courses in which the student is currently registered plus those he has already passed.

(2) Students in full-time programmes (four or more courses in a given winter session) may register in:
   (a) a maximum of two St. George or Erindale courses in the same winter session; and
   (b) a maximum of one St. George or Erindale course in the following summer session.

(3) Students may register in courses on the St. George or Erindale campuses in the Winter Session where an equivalent course is not offered on the Scarborough campus in the same Winter Session. (A list of courses deemed to be equivalent for purposes of this rule will be available at the office of the Registrar, the Student Services Office and the Divisional Offices.)

(4) These rules (1, 2, and 3) above apply for the student's first fifteen course only. A student's sixteenth course, and course thereafter, may be taken on the St. George and Erindale campuses without reference to the restrictions above providing an equivalent course is not offered at Scarborough College in the same Winter Session (as in 1961). In such cases, students should be aware that there are a limited number of places in many courses on the St. George and Erindale campuses, and that in some departments, Scarborough students may be given lower priority than St. George campus/Erindale campus students in the assignment of places.

(5) Students are not normally permitted to register for course in faculties other than Arts and Science for credit towards their Arts and Science degrees.

VIII. Withdrawal

For the last dates for withdrawal from courses, students should consult the "Academic Calendar", p. 61.

Students who withdraw from courses before the last dates for withdrawal in the student's Academic Calendar may be credited with the course and scheduled to receive notification of withdrawal is received by the Registrar's Office. 

Full information concerning withdrawal procedures and fees adjustments will be included in the registration material and the schedule of fees. 

Students who wish to withdraw entirely from the College should notify the office of the Registrar at once. Before any refund is authorized, students must:
   - return any books to the Library, pay Library fines, and return their library cards;
   - surrender any bookstore charge card and pay any outstanding accounts;
   - surrender their registration card;
   - return any equipment borrowed from the Recreation Centre and surrender any lockers in the Centre;
   - surrender any College locker and parking permit;
   - surrender any laboratory lockers and equipment.

IX. Checking of Marks

(1) Failing Grade - A F

The rules of the College require instructors to re-read the final examination if any student's final examination is found to be incorrect. Students who fail any course cannot be re-tested until the final examination is re-read.

(2) Courses with Final Examinations

After the issue of statement of results and within six months of the examination period, a student may request from the Registrar's Office a reproduction of his final examination for a fee of $5.00. If he subsequently wishes to have a clerical check of his marks made, he must do so within six months after the final examination is re-read.

(3) Courses with No Final Examinations

After the issue of statement of results and within six months after the final examination period, a student may request the reproduction of his marks for a fee of $5.00. If an error is discovered and the mark is changed, the fee will be refunded.

(4) Re-reading of Final Examinations

After a student has seen a reproduction of his final examination, after a student has seen a reproduction of his final examination,
appeal. Students may request exceptions to any of the academic regulations of the College. The procedures for such requests are a petition to the sub-committee on standing, stating the reasons for the petition and outlining alternative measures. The petition should be submitted to the Registrar, Scott Collegel, 2414A, telephone 244-3795.

(b) Special Consideration in a Course

Where a student is unable to write a final examination for reasons other than illness or other circumstances beyond his control, he may petition the sub-committee on Standing for special consideration in a course to exempt him from those portions of the course which are examined as stated in the Student Services Office. Where it is determined that the student is entitled to special consideration, the petition should be submitted to the Registrar, Scott College, 2414A, telephone 244-3795.

(c) Academic Appeals

Decisions of the sub-committee on Standing may be appealed to the Appeals Board of the College. The Appeals Board, 2920 Main Street, telephone 244-3120.

XII Study Elsewhere Programme

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

Programme of Study

Students may select to do Sconeborough College supervised courses or independent study courses off-campus. A student who wishes to do so must obtain permission from the academic advisor. The programme is subject to the approval of the sub-committee on Standing. The programme may be accepted by the University of Toronto.

XIII Academic Discipline

A Code of Behaviour regarding academic discipline has been approved by the by the governing body of the University. This Code applies to all students attending the University of Toronto degree, diploma or certificate programs. The Code is available from the Office of the Registrar, Scott College, 2414A.
Academic Offences

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

(i) to use unauthorised aids or obtain unauthorised assistance in any academic writing, essay, thesis, research report, project or assignment submitted for credit in a course or program of study, or on an examination;

(ii) to represent as that of the member any academic writing, essay, thesis, research report, project or assignment submitted for credit is a course or program of study, or on an examination;

(iii) to represent as that of the member any idea or expression of an idea contained in any academic writing, essay, thesis, research report, project or assignment submitted for credit in a course or program of study, or on an examination;

(iv) to submit for credit in any course or program of study, without the knowledge and approval of the member to whom it is submitted, any academic writing, essay, thesis, research report, project or assignment for which he or she has previously been obtained or is being sought in another course or program of study in the University or elsewhere;

(v) to submit for credit in any course or program of study any academic writing, essay, thesis, research report, project or assignment containing a purported statement of fact or reference to a source which has been falsified;

(a) to the benefit or detriment of a member or former member;

(ii) to evaluate work performed by the member for credit in a course or program of study by an individual who does not relate to the merit of the work, provided that a department or a division of the University shall have the right to establish regulations which do not relate to the merit of the work, provided that a department or a division of the University shall have the right to establish regulations which

(iii) to evaluate the work of students who are not members or former members who are seeking admission to a course or program of study by reference to any criteria that does not relate to the academic ability of the applicant for the course or program of study except that there may be a limitation on enrollment in the course or program of study for which only suitably qualified candidates may be selected by duly established and published criteria.

Academic Sanctions

(a) following sanctions, listed in order of increasing severity, may be imposed by the Tribunal upon conviction of any student, or of any academic offence as hereinafter defined:

(i) Caution or warning;

(ii) Caution or reprimand;

(iii) Failure in or cancellation of credit for any course or program of study in respect of which any academic offence was committed;

(iv) Suspension from attendance in all courses in which the student is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed, and such loss of credit for all courses which have not been completed or in which no final evaluation has been registered at that time;

(v) Suspension for such period not exceeding two years from the end of the semester in which the offence was committed, or from the Tribunal may determine;

(vi) Expulsion.

(b) The following sanctions, listed in order of increasing severity, may be imposed by the Tribunal upon conviction of any member or of any academic offence as hereinafter defined:

(i) Caution or warns;

(ii) Caution or reprimand;

(iii) Suspension from attendance in all courses in which the member is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed, and such loss of credit for all courses which have not been completed or in which no final evaluation has been registered at that time;

(iv) Suspension for such period not exceeding two years from the end of the semester in which the offence was committed, or from the Tribunal may determine;

(v) Expulsion.

(c) the Tribunals on Academic Matters of academic offences under the Code of Behaviour of the Academic Affairs Committee.
XIII Ombudsman

As part of the University's commitment to ensuring that, in spite of its size and complexity, the rights of its individual members are protected, a University Ombudsman has been appointed on an experimental basis to investigate grievances or complaints against the University, its policies, procedures, academic programs, student organizations, or any member of the University's student, faculty or administrative staff. The ombudsman helps to ensure that appropriate procedures for handling complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling grievances or complaints, he has access to all relevant files and information, and to all appropriate University officials.

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

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

In setting up the Ombudsman's Office, a special effort has been made to ensure that its services are readily accessible to all members of the University. The office is located at 16 Hart House Circle, just north of the SAC Building. Members of the University at Brindale and Scarborough Campuses may arrange to meet with the Ombudsman at the St. George Campus whenever is more convenient. Requests for assistance are dealt with in a confidential manner.

For information, advice or assistance, contact the Office of the University Ombudsman, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-6274).

XIV Campus Organizations

Responsibility for recognition of organizations where the membership is drawn from a single College, Faculty or School rests with the Council of that division. Where campus-wide organizations (or organizations drawing members from more than one division or constituency of the University) are concerned, responsibility is vested in the Internal Affairs Committee of the Governing Council.

Eligibility for recognition is assessed annually. The constitution of every society or association, and all subsequent amendments to such constitutions, shall be submitted to the appropriate administrative officer for approval. The objectives and activities of groups seeking recognition should be seen as attempting to contribute to the educational, recreational, social or cultural values of the University. Membership in groups shall be open to all members of the University community without restriction on the grounds of nationality, race, religion, colour, or sex. Status as non-voting members may be extended to interested persons from outside the University.

Enquiries concerning recognition should be directed to: Office of the Vice-President-Internal Affairs, 111, Simon Hall, University of Toronto (Telephone: 978-4888).

Appendix "The Old Rules on Assessment of Academic Status"

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

(1) Academic Probation and Suspension for One Year

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

<table>
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<tr>
<th>Course Credits</th>
<th>Grade of C- or higher</th>
<th>Grade of D  or higher</th>
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<tr>
<td>Suspended for one (1) year if 'N' or 'F' in</td>
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<td>1-4</td>
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<td>5-8</td>
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<td>17-20</td>
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<td>21-24</td>
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<tr>
<td>25-29</td>
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</tbody>
</table>

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

Exceptions to this rule are as follows:

a) no student shall be suspended who has not attempted four full course equivalents since the introduction of this rule at the beginning of the 1977 Summer Session.

b) in the case of a student who achieves the required number of courses at C- or higher during the probationary year in which he attempts the fourth full course (or equivalent) session in which he is placed on probation, his probationary status will be cleared at that time.
Special Summer Programmes

The Summer Arts Programme will provide an opportunity for intensive participation in the courses offered during a six-week period which begins 1 July and concludes 11 August 1978. These courses may be taken on a credit or non-credit basis.

Prospective applicants are invited to review the detailed information about the courses offered before preparing the application.

Fee
The academic fees for each course are $125.00. For those who wish to live on campus for the six weeks, the residence fee is $150.00 (including meals).

A deposit, $50.00, must accompany the Preliminary Application Form (attached), with the balance due on or before 31 June, 1978.

Application Procedures
The Preliminary Application Form on page 31 of this calendar must be submitted by 1 May 1978 at the latest, accompanied by a fifty dollar ($50.00) deposit.

Upon receipt of the Preliminary Application Form, the College will forward further information concerning admission, registration and credit (as appropriate).

Enrolments are limited in all courses and are filled on a first-come, first-served basis.

In the event of insufficient enrolment however, the College reserves the right to withdraw any course; a decision to do so will be made by 1 June. In such cases, all fees (including deposits) will be refunded.

ELEARNING
The Theory and Practice of Improvisational Theatre: The Commedia dell'Arte.

Course Description: The theoretical part of the course will concern itself with the history in improvisational theatre with special emphasis on the Commedia dell'Arte. The practical workshops will result in a production in the dell'Arte style.

Instructor: R. Schoenberg, also professional instructor and a guest director.

Session: Summer, Day

Content: The course will consist of a theoretical and historical examination of the practices of improvisational theatre with special emphasis given to the Commedia dell'Arte. A detailed study of its background, its precursors, its environs, and the subsequent incorporation into legitimate theatre, as well as its revival and modern applications will be studied in lectures and seminars. The practical half of the course will be directly related to the theory, and will involve two workshops in movement, mime, make-up, mask making, and preparation of scenery. The workshops will culminate in a production of a play in the dell'Arte style at the end of the session.

Teaching Method: There will be four 3-hour sessions per week from 1:00 p.m. to 5:00 p.m.

Bibliography: Pierre Ouchter - The Italian Comedy. Other texts will be recommended.

Evaluation: 1 essay, 1 class test Participation in workshops and on the production.
PARA865 Intermediate Painting

Prerequisites: PARA760, PARA771, or permission of instructor

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

Instructor: J. Campbell  Session: Summer Day

Objectives: To further explore painting as an expression of ideas.

Content: Experimentation with paint, discussions of scale, colour, form and content.

Method: 12 hours per week, three sessions four hours long per week. Studio work, lectures and morning demonstrations. Critiques held at appropriate intervals throughout the course, both group and individual.

Evaluation: Based on the work attitudes of the student and the actual work done in class.

imited enrollment: 30

Time-Table: M-F 2-5, W 6.30-9 p.m.

PARA866 Introduction to Etching

Prerequisites: PARA760, PARA771, PARA772 or permission of instructor

Course Description: An introduction to etching and relief printing emphasising the use of materials and techniques involved in the process of creative 'fine art printing'.

Instructor: Otto Kaysa Takasagaki  Session: Summer Day

Objectives: To introduce the student to the artistic and technical problems of intaglio printing.

Content: The course will include several lectures and workshops. Demonstrations about intaglio printing. The student will be expected to create several prints using intaglio methods.

Method: Four - 3 hour sessions a week for 6 weeks. Critiques will be at appropriate intervals throughout the course. M-F 1, 10.30-12.30 a.m.

Evaluation: Evaluation will be based on the work attitude of the student and actual work done in the studio.

Additional Comments: The student will be expected to bring to the class a strong creative attitude. Lab. Fee $30.00.
A. Degree Credit Students

☐ 1. I am a Scarborough College student (or I have applied for
    admission to Scarborough College for 1978-79).
    Student Number:

☐ 2. I am a student at an Arts and Science College of
    the University of Toronto other than Scarborough College.
    Student Number:

☐ 3. I am a University of Toronto student enrolled in a Faculty
    other than Arts and Science; or I am a student registered
    in another University or Provincial and I wish to take a
    University

☐ 4. Other (Please specify)

B. Non-Credit Students

☐ 5. I wish to take a summer arts course for interest, but not
    for degree credit at the University of Toronto or elsewhere.

RESIDENCE

Do you wish to live in a student residence on campus? ☐ Yes ☐ No

FEES

All fees are payable to "The University of Toronto" by means of a
cheque or money order in Canadian Funds. Personal cheques will not be accepted. Cash should not be sent through the mail, but
will be accepted at the College Fees Office, Room S-407.

☐ Full programme fee enclosed.

☐ $50.00 deposit enclosed. I shall pay the remaining amount by

DECLARATION

I declare that this Preliminary Application Form is true and complete
and to the best of my knowledge.

Date __________ Signature __________

Please complete and mail with your deposit to:

The Registrar,
Scarborough College,
University of Toronto,
West Hill, Ontario.

MIC 145.
Successful applicants will receive $800 bursaries, paid directly to the Summer Language Institute on behalf of the student. The bursary defrays the costs of fees, books and instructional materials, residence, meals and most recreational activities. They do not cover transportation costs or pocket money.

The Summer Language Bursary Programme is funded by the Ministry of the Secretary of State of Canada and is administered by the government of the province (the departments of education or other departments responsible for post-secondary education) in conjunction with the Council of Ministers of Education, Canada. The aim of the programme is to provide post-secondary students with the opportunity to learn the other official language and to improve their knowledge of the relevant culture.

Application Procedures

The Preliminary Application Form on page 41 of this Calendar must be submitted by 1 May 1978 (1 April for Italian) at the latest, accompanied by a fifty-dollar ($50.00) deposit.

Upon receipt of the Preliminary Application Form, the Institute will forward further information concerning admission, registration and credit (as appropriate).

Enrolments are limited in all programmes and are filled on a first-come, first-served basis. In previous years, particularly in the French programme, places have not been available for all who have applied.

In the event of insufficient enrolment however, the Institute reserves the right to withdraw any programme; a decision to do so will be made by mid-June. In such cases, all fees (including deposits) will be refunded.

English as a Second Language/ Writing Skills

It is hoped to offer courses in these areas during the summer of 1978. For further information please telephone or write to: Dean, J.R. Marden, Kitchener College, University of Toronto, West Hill, Ontario, M1A 1B1. (416-284-3204)

THE FRENCH PROGRAMME

The French programme offers intensive language study in a "total immersion" situation. Since a number of activities are scheduled for evening as well as daytime hours (and occasionally on weekends), it is strongly recommended that all participants, students and instructors, live on campus in a student residence. The Federal Government requires that all bursary awardees live in residence and that they are enrolled in the programme in which they are enrolled. Students are encouraged to take part in the social life with the other members of their group and to use French at all times in the Colloque and in the residences.

The six-week programme begins 1 July and concludes 11 August 1978.

Teaching Approach

In the first two levels French will be taught using the innovation approach which has been used at the SLI since its foundation in 1975. This approach has resulted in significant increases in student skills in French. In the past, the programme has been very highly rated by participants.

The aim of the approach is to accelerate the learning process, to improve short- and long-term retention, to reduce the foreignness and stiltedness of the language, and to transform learning into a fulfilling experience. To achieve these objectives, a distinctive classroom environment is provided and a special approach developed between instructor and students as well as among the students themselves. Techniques which make it possible to access the subconscious reserves of the mind are also used in order to involve the individual more fully in the learning process. Imagination and creativity also play an important role.
Level Two
FREN515  Language Practice
FREN525  Elementary Conversation II
Prerequisites: Grade XII French or at least 70% in FREN455.
Both courses have to be taken concurrently in the Summer Language Institute.
Course description: FREN515: This course provides all students with opportunities to improve their language skills, by means of reading and written compositions, oral classes, phonetics and work in the language laboratory. Not open to native speakers of French.
FREN525: Intensive practice in the spoken language through controlled situational oral work and discussion groups.
Instructor: T.B.A.
Session: Summer Day
(Summer Language Institute)
Contact and Teaching Approach: The very distinctive approach used to teach the basic three-hour daily class is designed to accelerate the learning process. It improves and facilitates short- and long-term memorization and free students from the inhibitions frequently associated with language study. Students are expected to acquire approximately two thousand words and expressions beyond the fundamental French vocabulary as well as the structures and syntax necessary for a solid working knowledge of the language.
In order to support these objectives, a number of factors are present: a different classroom environment; a particular type of rapport between the instructor and the students as well as among the students themselves; calls for imagination and creativity; use of techniques which stimulate the activity of certain subconscious and psychological elements involved in the learning process. Prime importance is given to acquiring the skills for effective oral communication. Practice in reading and writing plays an increasingly important role in the course program.
FREN515 is designed to reinforce and complement the learning which takes place in SLI. A number of diversified recreational, creative and cultural activities are offered especially which each student will choose a prescribed minimum number (to make an average of 2 additional hours per day). Participation in these activities is combined with immersion in the French speaking living context provided by the SLI.
Evaluation: Consistent with the essential principles of the teaching approach used, no formal grading takes place during the course. Final grades, based on student progress and evaluated by the instructors at the end of the course. Students should feel free to discuss their progress with their instructor at any point in the course.

Level Three
FREN612  Language Practice
FREN642  Intermediate Conversation I
Exclusions: FREN612, FREN642
Prerequisites: FREN612 or equivalent, Summer Language Institute, both courses may be taken concurrently.
Course description: FREN612: A continuation of first-year language work, including grammar, composition, oral practice, reading and language laboratory work. Not open to native speakers of French.
FREN642: Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will also be given to the comprehension of such major regional variants as the French of Quebec.
Instructor: T.B.A.
Session: Summer Day
(Summer Language Institute)
Organisation: The three-hour daily class focuses on attention to specific skills and provides for intensive practice in each. These are reinforced and complemented by participation in a prescribed minimum number of recreational, creative and cultural activities aimed at developing oral mastery while increasing awareness of francophone cultures (required participation is based on an average of two hours per day).
Evaluation by individual instructors: 40%. Final oral exam: 40%

Level Four
FREN613  Language Practice
FREN652  Intermediate Conversation II
Prerequisites: FREN612 or equivalent, Summer Language Institute
Course description: FREN613: This course is a continuation of FREN612 and includes reading, grammar, composition, stylistic exercises, discussion and/or debates.
FREN652: A continuation of FREN642.
Instructor: T.B.A.
Session: Summer Day
(Summer Language Institute)
Content: The intensive oral and written work conducted in FREN612 is reinforced and complemented by participation in a prescribed number of recreational, creative and cultural activities which are scheduled at various times in the week-ends and throughout the session (an average of 2 additional hours per day).
Evaluation: FREN613: 20% class participation; 40% written and oral assignments; 40% in-course tests, and final written and oral exam.
FREN652: 20% participation in prescribed activities; 40% evaluation by individual instructors; 40% final oral exam.
ITALIAN

The program in Italian for 1978 offers intermediate students an opportunity to further develop their oral, reading and writing skills in an "Italiano" situation. This course begins 16 May and concludes 19 August with two class meets on Monday and Wednesday evenings from 6:30 p.m. to 9:30 p.m. The course may also be taken on a noncredit basis.

Prerequisites: Intermediate Italian

Course Description: Intensive review of the grammar, with drills, exercises and compositions.

Instructor: Antonio Franceschetti Session: Summer Evening (Summer Language Institute)

Content and Teaching Method: This course will improve the basic knowledge of Italian acquired in previous studies and will allow the student further opportunities to converse in Italian with the goal of obtaining fluency in the language. The course concentrates on grammar and pronunciation, and the difficult parts of Italian grammar. This will alternate with reading and discussion of modern Italian prose and poetry and various aspects of Italian culture and civilization. The student will be asked to prepare written grammar exercises, as well as to write comments on summaries of the readings discussed in class. The course will be conducted in Italian; there will be two classes per week of three hours each.

Evaluation: Class participation 35%; class work (compositions, written exercises etc.) 30%; control tests 35.

RUSSIAN

The program in Russian for 1978 offers beginning and intermediate students opportunities to develop comprehensive language skills in a very intensive immersion situation. The classes offered are taught by native speakers who are experienced in language instruction at the university level. In each case, the courses may be taken for academic credit or on a non-credit basis.

The 8 ½ week program begins 1 July and concludes 11 August 1978.

All SLI 78 students participating in the Russian program are encouraged to live on campus. The student residences are within walking distance of the Institute, and daily staff will also be in residence. Instruction begins in the morning at 9:00 a.m. and concludes at 4:30 p.m. with a break in the middle of the day. In the evening, both levels, will be supplementary classes in Russian. (classical and rote). Cooking... Further information on the possibilities for contact with members of the local Russian community.

Level One

This level is designed for students beginning their study of Russian. The classes meet daily, Monday to Friday, for six hours of supervised instruction, covering the comprehension and active use of Russian with opportunities to develop basic proficiency in reading and writing.

RUSSIAN

RUHAI8

Introductory Russian

Course descriptions: RUHAI8: Fundamentals of Russian grammar, with emphasis on comprehension and reading, writing, and conversation.

RUHAI8L: Intensive practice in speaking Russian in controlled and free discussion groups.

Instructor: N. Krasnov/S. Whalen Session: Summer Day (Summer Language Institute)

Content and Teaching Approach: Introductory Russian and Elementary Conversation combine 3 hrs. Daily of grammar instruction with 2 hrs. of conversation. The students will be exposed to formal class work over a six-week period designed to introduce the student to the fundamentals of Russian grammar: declensions, conjugations, aspectual system and word order, emphasizing comprehension and reading, writing, and speaking skills. The acquisition of functional passive and active vocabularies through grammar instruction and conversation courses is further intensified by the total six-week immersion in using and speaking Russian and by other related cultural activities.

Evaluation: RUHAI8L: Tests, class performance and assigned work considered for final oral examination.

RUHAI8L: Class performance and one final oral exam.

Level Two

This level is designed for students who have already acquired a basic understanding of Russian in the case of students registered for Russian, they should have Grade XII Russian or a comparable Introductory Course. An appropriate placement test may be administered by the Institute. The classes meet daily, Monday to Friday, for five hours of supervised instruction, which will include grammar and translation study, readings, conversation and laboratory work.

RUHAI8B

Intermediate Russian

RUHAI8B

Intermediate Conversation

Prerequisites: Grade XII or RUHAI8

Course descriptions: RUHAI8: Expanded study to increase ability in speaking, writing and reading Russian.

RUHAI8B: Intensive practice in speaking Russian in controlled and free discussion groups.

Instructor: C.V., Potomakoff/S. Whalen Session: Summer Day (Summer Language Institute)

Content and Teaching Approach: Intermediate Russian and Intermediate Conversation combine 3 hrs. Daily of grammar instruction with 2 hrs. of conversation. The 10 hrs. of formal class work over a six-week period is designed to introduce the student to the fundamentals of Russian grammar: declensions, conjugations, aspectual system and word order, emphasizing comprehension and reading, writing, and speaking skills. They are also exposed to the total six-week immersion in using and speaking Russian and by other related cultural activities.

Evaluation: RUHAI8B: Tests, class performance and assigned work considered for graduation; one final examination.

RUHAI8B: Class performance and one final oral exam.
The programme in Spanish for 1978 offers intermediate students an opportunity to further develop their oral, reading and writing skills in an "intensive" situation. The six-week programme begins 1 July and concludes 11 August 1978. The class meets daily, Monday to Friday, from 10:00 a.m. to 1:00 p.m.

SPH82B
Exclusion: SPH802
Prerequisites: Grade 13 Spanish or SPH81
Course Description: Review of grammar and syntax; composition, translation and oral practice.
Instructor: J.I. Chico-Yepez (Summer Bay)
(Summer Language Institute)

Content: 1. Review of grammar and syntax. The text used will be A. Silva, A Concept Approach to Spanish, 3rd edition.
2. Composition. There will be two types: a) to be written as homework; b) in class with the help of a dictionary. The topics for both types of compositions will be chosen by the student from among several proposed by the instructor.
3. Translation. There will be: a) translations to be done as homework; b) in class (with the help of a dictionary). Both kinds of translations will be from English into Spanish. The types of texts used for translation will include: a) narrative; b) historical texts; c) scientific ones; d) literary prose.
4. Oral practice. The students will be asked to act in groups of two or three various dialogues portraying different situations.

Evaluation: The final mark will be comprised of:
1. 4 tests (in class) 40%.
2. Compositions 20%.
3. Translations 20%.
4. Oral practice 20%.
Course Key

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.

A. Degree Credit Students

1. I am a Scarborough College student (or I have applied for admission to Scarborough College for 1976-77). Student Number: 

2. I am a student at an Arts and Science College of the University of Toronto other than Scarborough College. Student Number: 

3. I am a University of Toronto student enrolled in a Faculty other than Arts and Science; or I am a student registered in another University (or overseas) and wish to take a summer course for degree credit at my Faculty/University. 

4. Other (please specify) 

B. Non-Credit Students

5. I wish to take a summer language course for interest, but not for degree credit at the University of Toronto or elsewhere.

Residence

Do you wish to live in a student residence on campus? Yes No

All fees are payable to "The University of Toronto" by means of a certified cheque or money order in Canadian Funds. (Personal cheques will not be accepted). Cash should not be sent through the mail, but will be accepted at the College Fees Office, Room B-407.

a) Full program fee enclosed.

b) 850 deposit enclosed. I shall pay the remaining amount by 23 June, 1978 (12 May for Italian).

(c) 850 deposit enclosed. I am applying to take the French Program, and I have also applied through my provincial government for a summer language bursary.

If I am awarded a bursary, I understand that my 850 deposit will be refunded to me.

If not, I shall pay the balance of the program fee by 23 June, 1978.

I shall be unable to attend the Summer Language Institute, and will have 10 days in which to withdraw without penalty. 

If I am unable to attend owing to my not receiving a summer language bursary, my 850 deposit will be refunded.

Declaration

I declare that this application form is true and complete to the best of my knowledge.

Date: 
Signature: 

The Registrar, Scarborough College, University of Toronto, Mississauga, ON L4H 1A4.

(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:

Letter Value Winter Session Summer Session
V Full Course Sept. - May May - August
F Full Course Sept. - Dec. May - June
S Half Course Jan. - May July - August
H Half Course Sept. - May May - August
A Full Course Sept. - Dec. May - June
D Full Course Jan. - May July - August

Note: Courses marked S78 will usually be offered in either the first or second term and only in some cases in both terms.

(5) Deleted Courses. Course numbers appearing in parentheses, (e.g.: 50021), have been offered in the past but have been deleted from the curriculum and will not be offered in the future. However, references will occasionally be made to these courses as prerequisites, corequisites or exclusions.

Exclusions, Prerequisites and Corequisites.

(1) Exclusions. If a student has standing in a course which is indicated as an exclusion, the student may not enrol in the course being described.
Programmes of Study and Course Descriptions

Anthropology

Assistant Chairman: T.B.A.

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 sense, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and from the physical and natural sciences. Anthropology examines societies today and in the past, as part of their civilizations and in relatively small or large non-literate societies. From this vantage point Anthropology seeks to understand 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 changes (and to the differences between peoples and cultures).

Because of the vastness of its subject matter, Anthropology is traditionally divided into four sub-fields: Social-cultural Anthropology, Ethnohistoric Archaeology, Biological Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three sub-fields with occasional offerings in the last (however, the Humanities Division presents several courses in Linguistics).

Students wishing to major in Anthropology are advised to consult with the supervisor of studies, Professor S.H. Schroeder (Room E-311 or E-423). ANTH 1001 is normally required of all students considering the programme. A document listing some possible programmes of study in Anthropology is available from the office of the Division of Social Sciences (E-411).

Major Programme in Anthropology

Supervisor: Professor S.H. Schroeder

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

* A first-year student with background in Anthropology, or declared major interests and relevant background training may petition the Supervisor of Studies for waiver of the programme if he/she can demonstrate that he/she is prepared to take all three of ANTH 1001, ANTH 2002, and ANTH 2003. This requirement will not be waived if the petitioner has not completed a year of study in Anthropology.

ANTH 1001 normally required as a prerequisite to other courses in Anthropology for all majors.

ANTH 2002 (two of the three courses required to be taken within the four year programme); one full-course equivalent in supervised reading and/or research courses, from ANTH 32, ANTH 324, ANTH 325, ANTH 424. Any six full-course equivalents at the B or C-level, from the remainder of the Anthropology curriculum. While the programme can be completed at Scarborough, students may also wish to investigate the course offerings of the Department of Anthropology, St. George's campus.

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

Supervised Reading, Supervised Research and Independent Study Courses.

(1) Supervised Reading Courses. Students in reading courses usually work under the direction of a faculty member with whom they meet periodically to discuss their reading, their progress, etc. They may also meet occasionally with other students doing similar reading.

Students should consult instructors of the various disciplines for details of requirements and arrangements in each discipline offering supervised reading courses.

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

(3) Independent Study Courses. Students in independent study courses usually work under the direction of a faculty member with whom they meet periodically to discuss their study, their progress, etc. Students should consult instructors in the various disciplines for details of requirements and arrangements in each discipline offering independent study courses.

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

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

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

**Introduction to Anthropology**

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

**Instructor:** T. S.A.

**Session:**
- Summer Day
- Winter Day and Winter Evening

**Content:** The course is designed to introduce the student to all members of the Anthropology group, and lectures deal with specialized areas given by different instructors in the discipline.

**Teaching Method:** Three one-hour lectures and 1 one-hour laboratory test; 2 written laboratory assignments, and 1 final examination.

**Evaluation:** Two one-hour lecture examinations, and 2 practical laboratory tests; 2 written laboratory assignments, and 1 final examination.

**ANTB1F**

**Cultural Ecology**

**Prerequisite:** ANTA01

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

**Instructor:** T. S.A.

**Session:** Winter Day

**Content:** Cultural ecology is one way of examining and studying a subsocial system. The course will consider both the utility of such an approach, and the quality and relevance of the data it generates.

**Teaching Method:** Two one-hour lectures and 1 one-hour tutorial per week.

**Evaluation:** Some combination of essays and/or examinations.
ANTHRO | Cultural Ecology: A Diachronic Perspective

Prerequisite: ANTA01

Course description: An examination of the cultural ecological approach and change in human societies through time.

Instructor: H.B. Schroeder  
Session: Winter Day

Content: A review of the cultural ecological approach in anthropology, as it has been applied to the analysis of adaptive and change in human societies through time. The first third of the course will consist of an introduction to ecological anthropology, its theoretical orientation and fundamental concepts. The second third of the course will examine the application of an ecological approach to the analysis of specific problems of culture change.

Teaching Method: 2 hours of lectures per week and one of lab/tutorial.

Evaluation: exam, research paper, several lab exercises.

ANTHRO | Background to Modern Archaeology

Prerequisite: ANTA01, or Permission of Instructor

Course description: An introduction to the history and theory underlying modern archaeological methods and interpretations—and perhaps some insight into the “Science of Archaeology”—through the reading of original literature and site reports. The course reviews major trends in the development of prehistoric archaeology as a scientific discipline in both hemispheres.

Instructor: R.B. Klaasmann  
Session: Winter Day

Content: Given that Archaeology covers 3 million years and the entire world, general courses give students limited experience with original sources. Since an understanding of the human past may well contribute to a better understanding of present problems, the course aims at giving students some insight into the historical and theoretical developments within the sub-discipline that reconstructs the human past.

Teaching Method: One two-hour lecture session, and 1 one-hour tutorial (discussion) period per week.

Evaluation: Oral presentations and participation 20%, Research paper 40%, Final examination 35%.

ANTHRO | Human Evolution

Prerequisites: ANTA01, ANTB15 or (BIO14) recommended

Course description: An analysis of the phylogeny of man. The issues and controversies that form the theoretical framework to the understanding of the fossil evidence. Readings substitute for a single textbook. Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil cast materials.

Instructor: T.B.A.  
Session: Winter Day

Content: The course involves an analysis of the rise of evolutionary theory through natural selection, the development of genetic theory and the eventual rise of the synthetic theory of evolution. A brief survey of the evolutionary development of vertebrates, a survey of primate fossils and presumed evolutionary directions. Finally the major portion of the course deals with a survey of the discovery of fossil hominids and the construction of the interpretation of the interpretation of what is presently known concerning human origins.

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

Teaching Method: Lectures with discussion and labs.

Evaluation:
1 mid-term exam 20%
1 paper 40%
1 final exam 40%.
ANTH1157
Introduction to Physical Anthropology
Pre-requisites: ANTH101 or ANTH114 or permission of instructor
Course description: A survey of the human place in nature: origins (early and modern evolution theory). Basic to the course is an understanding of the anthropic theory of evolution and the principles, processes, evidence and application of the theory. Three hours of laboratory per week acquaint the student with the methods and materials utilized by the Physical Anthropologist.
Instructor: P.D. Burton
Session: Winter Day
Content: Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primate biology, social organization and behavior of non-human primates, taxonomy and classification, paleoanthropology, the fossil record and the human story, and later developments reserved for the qualitative and quantitative assessment of contemporary human variation, human osteology and fossil record identification.
Teaching Method: Lectures and laboratory work.
Evaluation: 2 one-hour lecture examinations.
2 one-hour examinations based on laboratory material and problem sets on material covered in the laboratory sessions.

ANTH1175
Complex Societies
Pre-requisites: ANTH101
Course description: The focus of study will be on peasant and agrarian societies, in which special attention will be paid to problems of de-industrialization, urbanization, and peasant response to urban situations and social control. The study will draw upon third world economic and social adjustments to new situations.
Instructor: R.M. Shirley
Session: Winter Day
Content: The focus of the course will be upon peasant or agrarian societies.
Teaching Method: Two one-hour lecture sessions, and one one-hour tutorial or discussion session per week.
Evaluation: Some combination of examination and essay.

ANTHR105
The Cultures of Modern Canada
Course description: A consideration of contemporary cultures in Canada and how these have developed during the last forty years. Indigenous groups (Indian-Metis-Subanish) and formerly-immigrant groups, both rural and urban, will be treated in the same general framework. The course will attempt to place local and regional ethnic groups and subcultures in a national political and economic context.
Instructor: T.B.A.
Session: Winter Day
Content: The course includes three major sections: The first will consider the history of Canadian settlement since the early 1900's; the second will relate local cultural groups in contemporary social settings; and the third will show the interrelationships of these groups to the larger contemporary Canadian context.
Teaching Method: One two-hour lecture session and one one-hour tutorial per week.
Evaluation: Some combination of essays and examinations.

ANTHR111
Cultural Evolution
Pre-requisites: ANTH101 or permission of instructor
Course description: This course examines how cultural evolution has been viewed from the nineteenth century to the present and how these views are related to other aspects of anthropology. However, emphasis will be placed on the contemporary approach to cultural evolution with case studies drawn from ethnohistorical, ethnological and archaeological sources.
Instructor: P.B.G. McFet (Fall) R.M. Kleinisman (January)
Session: Winter Day
Content: Special attention given to the specific mechanisms of change as seen through archaeology and ethnology: the world-sharing or diffusion of cultures; basic inventions, and their consequences; the relationship of evolution to revolution; concepts of levels of integration.
Teaching Method: One lecture session and one tutorial session per week.
Evaluation: Some combination of essays and/or examinations. One research paper per term.
ART 3410
Economic Anthropology

Prerequisite: ANPA 301

Course Description: A consideration of comparative economic systems from an ecological and adaptive perspective, and of the nature of methods of production as a developmental process and its relation to total societal frameworks.

Instructor: T.B.A.

Session: Winter Day

Content: The course examines cross-cultural systems of production, distribution, and market exchange with attention given to the nature and meaning of social usage value, the relationship to the production and use of material objects in differing cultural environments, and to the effects of change on identities surrounding these objects as products of specific environments. The marketplace is used as the focus for studying these features.

Teaching Method: Two one-hour lectures, and one one-hour seminar discussion session per week.

Evaluation: Some combination of essays and/or examinations.

ART 2005
Introduction to Social Organization

Prerequisite: ANPA 101

Course Description: "Kinship is the backbone of anthropology, and logic in the social sciences. It is the basic discipline of the social sciences." (Max Weber). The purpose of this course is to teach something about the specific concepts by analyzing variations in social structure.

Instructor: T.B.A.

Session: Winter Evening

Content: This course will develop, through comparisons, how kinship systems in small scale societies are used by human groups to organize their living patterns, their demographic spaces, their economic livelihoods, and their political relationships with other groups. It will highlight how these differences between societies are fundamental to what is known in social anthropology and with how different models relate to different amounts of thought in social anthropology.

Teaching Method: One three-hour session per week.

Evaluation: Some combination of essays and examinations.

ART 4640
North American Background to Canadian Native Peoples

Prerequisite: ANPA 601

Course Description: North American Native Peoples formed a mosaic of connected yet distinct cultures ranging in complexity from hunter-gatherer to small First Nations to large First Nations societies. This course will analyze the evolution of historical processes that shaped the cultures of ancient Aboriginals. Early contacts with Europeans destroyed the aboriginals and some nations while fundamentally altering others. Later contacts witnessed developments, confusions, the erosion of traditional culture and widespread poverty.

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

Instructor: T.B.E. McPeak

Session: Winter Day

Content: In the Fall term we will study traditional groupings; in the Spring term we will study transitional and contemporary groupings.

Teaching Method: Lectures, Labs and Display Construction.

Evaluation: Some combination of essays and examinations.

ART 3410
Comparative Mythology

Course Description: This interdisciplinary course deals with the nature of myth from the viewpoint(s) of anthropology, philosophy, linguistics, psychology, and comparative literature. It also deals with myth as it is generated in modern society and in a political context.

Instructor: T.B.A.

Session: Winter Day

Content: The first part of the course will deal with various theories of what is, and what part it plays in society. Examples will be drawn from various cultural and non-Western social systems. The impact of the relationship between myth and literary form, between myth and society, and between myth and society will be explored. The second half of the course applies the theoretical material to the study of myth in modern society. It deals with the way modern man validates and understands his society to himself, through ideology as well as myth.

Teaching Method: Two one-hour lecture sessions, and one one-hour tutorial session each week.

Evaluation: Some combination of essays and/or examinations.
ANTHRO· Introduction to Prehistoric Archaeology

Prerequisites: ANTHRO

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

Instructor: B.C. Schreiber

Session: Winter Day

Content: The course is divided into two sections of approximately equal length. The first takes up the development of modern science’s interest in human antiquity, the traditional character of science and methodology in human antiquity, the focus on the post-Mesolithic period and the development of prehistoric archaeology, as well as the rapid expansion of prehistoric archaeology during the past two decades. For the second half of the course, the focus is on the development of the “Early Prehistory”, the topics being the impact and significance of the prehistoric period for the development of modern society, the question of the evolution of culture and the question of the evolution of the human species. The major topics of the second half of the course will be the development of the early agricultural societies and the development of urban civilization.

Teaching Method: A lecture course with occasional field trips. There will be two to three field trips per week. The course will also include laboratory work.

Evaluation:
- Two tests
- One major essay/project
- Lab exercises

ANTHROY Archaeological Methods and Materials

Prerequisites: ANTHRO

Course Description: The course will be divided into two sections. The first section will cover the basics of archaeological excavation and recording of field data. The second section will cover the basics of laboratory analysis. Students will be required to participate in a field excavation during the course. The course will be taught by the instructor who has extensive experience in field archaeology. The course will meet three times per week, on Wednesday, Thursday, and Friday.

Instructor: M. Latas

Session: Winter Day

Content: See course description.

Teaching Method: A laboratory course with occasional field trips. The course will include both lectures and hands-on laboratory work.

Evaluation: Five major projects, each with a written report and a field component. The course will also include a final examination.

ANTHROZ The Prehistoric Archaeology of Canada

Prerequisites: ANTHRO

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

Instructor: M. Latas

Session: Winter Day

Content: The course will examine both the prehistory and the archaeology of each of the major cultural-geographical areas of Canada. We will, however, limit our study to the period before European contact, thus we can appreciate the diversity of the traditional cultures in Canada and the ways in which they were adapted to the very rigorous environments which make up our country.

Teaching Method: Lectures with slides will be supplemented by movies and guest lectures when possible. There will be a field trip to one or more famous prehistoric sites in the southern Ontario region.

Evaluation: The major part of the mark is based on a comprehensive research paper which is prepared in sections throughout the course. There will also be one or two exams.

ANTHROZV Language and Culture

Prerequisites: none

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

Instructor: J.J. Chew

Session: Winter Day

Content: The course will cover the development of linguistic systems and their relationship to other cultural systems, with particular emphasis on the evolution of linguistic systems and the evolution of the human species.

Teaching Method: A lecture course with occasional field trips. The course will include both lectures and hands-on laboratory work.

Evaluation: A combination of essays and/or examinations.
ANTH 317 Introduction to Political Anthropology

Prerequisites: ANTH 200

Course description: A general survey of the role of political systems in a largely "development" framework.

Instructor: R.W. Shirley

Session: Winter Day

Content: This course will explore legal and governmental institutions, study disputes and dispute settlement in the context of simple as well as more complicated societies, focusing on the study of Latin American institutions.

Teaching Method: Seminar

Evaluation: Major paper and test

ANTH 316 Theoretical Frameworks in Physical Anthropology

Prerequisites: ANTH 314, ANTH 315 (ANTH 309 is recommended but not required)

Course description: Important theories and models of hominization will be examined.

Instructor: T.R.A.

Session: Summer Evening

Content: Consideration will be given to theories that emphasize the structural aspect of man's emergence. Demographic and ecological models will also be reviewed. However, it is expected that developmental emphasis will be placed on bio-behavioral models of hominid evolution. Some of the conceptual parameters that may be dealt with are: hominid neural evolution; possible hominid behavioral preadaptations, such as aggression, territoriality, and altruism; paleoecology and the development of diagnostic hominid mastodontic and locomotor capacities; and the relative roles of the various evolutionary forces of genetic drift, gene flow, non-random mating and natural selection. The final section of the course will synthesize the above information in an effort to understand hominization in a broad perspective and to make a rigorous analysis of the controversial works of R. Ardrey, D. Morrise, R. Leroi-Gourhan, I. Tague, E. Morgan, etc.

Teaching Method: The lectures in the introductory weeks will be followed by class discussion and student seminars.

Evaluation: A major research project to be presented orally and handed in at the end of term in the form of a written term paper.

ANTH 318 Prehistory of Mexico and Mesoamerica

Prerequisites: ANTH 301

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

Instructor: M. Latta

Session: Summer Evening

Content: Specific areas to be covered: early populations in Mesoamerica, plant domestication and beginnings of agriculture, the origins of Olmec civilization, the Maya Teotihuacan, Monte Alban, the Toltecs and Aztecs, and the Spanish conquest.

Teaching Method: Lectures and tutorial discussions related to research papers.

Evaluation: 1 two-hour lecture examination 1 research paper Participation in tutorial discussions
ANTH3077 Human Diversity
Pre-requisite:
ANTH304; ANT105 is recommended
Course Description: Special emphasis will be given to the role of culture in shaped human biological make-up. This course examines the nature and scope of biological variation in contemporary human populations, and the evolutionary forces responsible.
Instructor: L. Sawchuk
Session: Winter Day
Content: The course begins with an examination of the biological basis for human variation at the molecular, familial, and populational levels. A survey of contemporary human variation includes traits of staple and complex inheritance and methods of assessing the range of human biological diversity. Emphasis is given to the interaction between biology, culture, and genetics. Laboratory sessions will deal with problems in Mendelian and population genetics, as well as practical experience in blood typing, electrophoresis, starch-gel electrophoresis, and anthropometry.
Teaching Method: Lecture with discussion and labs.
Evaluation: The final grade will be determined on the basis of two tests (30% each) and laboratory exercises (35%).

ANTH416 Pre-Industrial Technology
Pre-requisite:
ANTH105
Course Description: A survey of the diverse techniques that create the objects of human "material cultures" with emphasis upon those of importance in the archaeological record, and a review of the implications of design process and technology for the production of the "techno-semantic adaptive mechanisms" in pre-industrial societies.
Instructor: W.N. Kleinmeyen
Session: Winter Day
Content: Continuing human existence is predicated upon the objects which form the "interface" between the human organism and the external environment. This course emphasizes process rather than product, and begins with the view that material objects manufactured or utilized by humans are integral to the understanding of the human organism and its interaction with the external environment.
Teaching Method: One two-hour session per week involving lectures and discussions, and one one-hour tutorial per week.
Evaluation: Major research paper 50%
Oral presentation 15%
Final examination 35%
ANTH407  Enculturation and Childhood
Prerequisites: ANTA01 or Permission of Instructor
Course description: Each human group has a unique cultural adaptation—a process termed "enculturation". This course reviews the biological process and analyzes enculturation in non-human primates, and across cultures.
Instructor: F.D. Burton  Session: Winter Day
Contents: The theme of the course is an analysis of the child as person and property, and as genetic and cultural investment across species. Specific topics include: non-human primate socialization; human cultural attitudes toward children; function and value; ceremonies and institutions; ecological constraints and considerations; the use and abuse of children.
Teaching Method: Lectures and discussions; seminars. One two-hour session, and one one-hour session per week.
Evaluation: Two tests; 1 group presentation; 1 research paper.

ANTB107  Human Ontology
Prerequisites: ANTA01 or BIOA01; ANTH101 or ANTH105
Course description: The course emphasizes structure and function in the human body. The histology, and the osteogenetic as well as the phylogenetic development of bones, are treated holistically. Paleoanthropology and forensic aspects are also considered.
Instructor: TBA  Session: Winter Day
Contents: The course is oriented around practical procedures and laboratory sessions, and is designed to acquaint students with the systematic and functional aspects of morphological structure, and will deal with phylogenetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects.
Teaching Method: One one-hour lecture session, and one two-hour laboratory session per week.
Evaluation: Series of tests plus a final examination.

ANTHR480  Human Osteology
Prerequisites: ANTA01 or BIOA01; ANTH104 or ANTH105
Course description: The analysis of primate dentitions is approached from a phylogenetic and osteogenetic perspective. The evolution of dental structures among the primates is stressed, with special emphasis on the functional aspects of the human molars. The significance of teeth in primate and human paleontology, as well as dental histology, are also treated.
Instructor: TBA  Session: Winter Day
Contents: The course is oriented around practical procedures and laboratory sessions, and is designed to acquaint students with the systematic and functional aspects of morphological structure. It will deal with phylogenetic and developmental aspects of the Primate dentition. Lectures will emphasize theoretical issues, while laboratories will stress practical aspects.
Teaching Method: One one-hour lecture session, and one two-hour laboratory session per week.
Evaluation: Series of tests plus a final examination.

ANTC01F  Systems of Thought
Prerequisites: At least "A" level course in social anthropology
Course description: The course deals with methods for describing and analyzing the systems of thought of non-Western peoples. Specific systems will be analyzed, and certain theoretical models for their description will be investigated.
Instructor: TBA  Session: Winter Day
Contents: All students will be asked to familiarize themselves with one of two non-Western systems of thought, and to be prepared to discuss them in detail. Specific theoretical issues include the rationality of such systems, their construction and maintenance, and their relation to social process.
Teaching Method: One two-hour seminar discussion session per week.
Evaluation: Some combination of essays and/or examinations.
ANTC010 and C145  Directed Reading in Anthropology
Prerequisite: Permission of Instructor.

Instructor: Members of the Faculty  Session: Winter Day

Contents: A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature.

Teaching Method: Individual tutorials, as arranged.

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

ANTC02Y  The Anthropology of Humour
Prerequisites: Any two courses ANTH520, ANTH522, ANTH524

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

Instructor: C. Wopen  Session: Winter Day

Contents: The course aims at investigating a general theory of humour, a classification of humour, and the search for universals. Collected data should yield information on comparative value systems. While examples and illustrations may be drawn from the Western World, most of the research will be concentrated on the "Third World." Data are scattered, but information will be sought in fiction, fables, myths, plays and other sources. Students are expected to become familiar with literature from unfamiliar areas.

Teaching Method: Seminar; one two-hour session per week.

Evaluation: Some combination of essays and/or examinations.

ANTC10  Women in Evolution
Prerequisite: One B-level course

Course Description: In the aftermath of International Women's Year, many scientists are re-examining traditional views of the origins and development of human culture. The first half of this course will outline possible circumstances, events and processes which have influenced the role of women in society today. During the second portion of the course, students will explore aspects of this subject in detail, and present their findings to the group in an informal seminar.

Instructor: T.B.A.  Session: Winter Day

Contents: The course aims at a broader understanding of the place of women in diverse societies, and of how these situations may have come about. It will consider female roles and therefore, also, male roles among non-human primates, the evidence from prehistoric hominid populations, and gender roles in a number of modern human cultures. This information, together with physical and psychological data on "femininity" will be used to consider a number of concepts such as sex role determinism, dominance, and status.

Teaching Method: One two-hour lecture and discussion session per week.

Evaluation: Some combination of essays, oral presentations, and examinations.

ANTC11F  Research on the Social Behaviour of Non-Human Primates
Prerequisite: ANTH202 or permission of instructor

Course Description: The purpose of this course is to observe, record and analyze data on the social behavior of non-human primates. This field experience concentrates on methods of gathering data under naturalistic conditions. The work is done either in semi-naturalistic enclosures, or on free-ranging animals abroad. An intensive course, the student is asked to commit a minimum of five hours per day when the course is held at the zoo, and days on free-ranging animals abroad. Limited enrolment by permission of the instructor (50 per cent) or 30 (at KAA, June 3-30, 10:30 a.m.-4:00 p.m. 5 days per week). **

Instructor: P.D. Burton  Session: Summer Day

Contents: Problems of undertaking field work: the research problem; appropriate techniques: the site: getting there; maintenance and support in the field; data analysis. Experience is gained with different objective methods (e.g. scan sampling; focal animal; transect checklist; multipurpose and specific activity records) as well as with subjective methods such as opportunistic and diary formats.

Teaching Method: Group discussion; individual practice.

Evaluation: Based on:
1. Field Exercises
2. Data
3. Group presentation
4. Observation of student in field

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

ANTC14Y and C145  Advanced Research in Anthropology
Prerequisite: Permission of Instructor.

Instructor: Members of the Faculty  Session: Winter Day

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

Teaching Method: Individual tutorials, as arranged.

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

Discipline Representative: R. Jander

Astronomy is a field that explores the universe at different scales. It is concerned with the study of celestial objects such as stars, planets, and galaxies. The discipline is divided into various branches, including astrophysics, which focuses on the physical properties of the universe, and astrobiology, which investigates the possibility of life elsewhere in the cosmos.

The full range of astronomical topics is covered at an introductory level in AST203 (for science students) and AST203J (for non-science students) while selected astrophysical topics are dealt with at a more advanced level in AST301 and AST302. AST203 presents the general theory of relativity and some of its applications in astrophysics and cosmology.

AST203

Astronomy: Exploring the Universe

Exclusion: AST203

Prerequisites: Grade 12 Physics, Grade 12 Functions and Relations.

Course Description: In this modern look at the universe, we appreciate the techniques and implications of astronomical observations developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the distant reaches of quasars: from the wasteland of interstellar space to the nuclear Inferno Deep. In a stellar interlude, we discuss the history of the universe, the possibility of an interstellar dust mound to the frayed end of a pulsar, as grey sources or in black holes. Computer simulation is an important feature of this course. It is not possible to present in print or on screen all the important events of the universe. The simulation is an important part of this course.

Instructor: C.C. Dyer

Session: Winter Day

Teaching Method: 2 hours lectures and 1 hour tutorial/laboratory. Practical observations are introduced in the laboratory and on scheduled evenings in the fall. Visits to the David Dunlap Observatory and the McDonald Planetarium are also arranged.

Evaluation: Test work (quizzes, assignments, laboratory exercises, a term project) - 40%; two 50-minute term tests - 20%; final examination - 40%.
A Survey of Astronomy: its Recent Development and Significance

Course Description: Astronomy 603 is a basic science course for non-science students, which surveys all aspects of the extra-terrestrial universe. Theories of the evolution of the solar system, stars, and the universe are presented. Recent evidence and the possibility of life on other worlds is reviewed and explained; the nature of stars is discussed, and consider deeply the meaning of life in the universe. It is shown how mankind's changing understanding of the wider universe and the recent development of Intelligent life in the universe is the subject of current research. The significance of mankind's exploration of space is discussed.

In addition to lectures, there is a 1-hour tutorial per week. This is supplemented by a practical demonstration, and a visit to the David Dunlap Observatory. Using the College's telescopes, students also have an opportunity to observe the night sky, and to take home photographs of celestial objects if they wish.

Instructor: P. P. Kronberg
Session: Winter Day

Content: The course will contain a description of all aspects of the extra-terrestrial universe in the methods used, past and present, to explore it. The first part of the course will emphasize the historical context in which our knowledge of the universe has developed, and the latter part of the course deals with present and future investigations of the universe, some of its possible economic and even philosophical implications. At the end of the course time will be devoted to exploring the various interrelationships between current technological and human values and ground based experiments.

Teaching Method: 2 lectures, 1 tutorial per week, and an essay.

Evaluation: 50% exam & term tests; 50% essay & tutorial exercises.

ASTR610
Topics in Astrophysics: Origin and Evolution

Prerequisites: PHYS 310 or PHYS 311, MATH 240 or MATH 245

Course Description: Theories and observational evidence related to the origin and subsequent evolution of astronomical objects and to the conditions for the development of Intelligent life in the universe. The course will consist of five topics: (a) The origin and evolution of the universe, (b) The Big Bang, (c) The Big Bang, (d) The stars, (e) The galaxies, (f) Life in the Galaxy. Students are given a comprehensive introduction, using the elementary mathematics and physics, to the first four topics above. Recent developments in these areas are noted and results of numerical computations are presented. On the level of science this gained the possibility of extraterrestrial universe is discussed and the question of the origin of life is considered in the context of recent discoveries of complex molecules in the interstellar medium.

Teaching Method: Two lectures and one tutorial hour per week.

Evaluation: Biweekly assignments 25% First term test 25% Second term paper 25% Final exam 25%

ASTR630
Research Topics in Astronomy

Prerequisites: ASTR 610 or ASTR 611; PHYS 310; permission of instructor

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

Instructor: P. Kronberg, R. Hooder et al. Session: Winter Day

Course Teaching Method: ASTR 600 is an "all day" half-course in which the student will be requested to read in some topic of current interest. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of extraterrestrial interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. For more detailed information see Dr. Kronberg, Dr. Martin or Dr. Hooder.

Bibliography: Dependent upon topic selected.

Evaluation: 75% on thesis 25% on discussion and oral summary
Biological Sciences

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

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

For those students who do not have a clear career goal, a guide to recommended course patterns in biology and related subjects is contained in a brochure "Biology at Scarborough" which is available in Academic Services and from the Chairman, Life Sciences Division. Staff members should be consulted if you have questions about your programme in biology.

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

BIO035 Introductory Biology

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

BIO021 Basic Microbiology
BIO052 Genetics
BIO011 General Physiology
BIO061 Invertebrate Biology
BIO012 Fundamentals of Ecology
BIO037 Plant Structure and Development
BIO013 General and Comparative Physiology
BIO027 Comparative Vertebrate Morphogenesis
BIO028 Developmental Biology
BIO029 Plant Kingdom
BIO024 Comparative Vertebrate Histology
BIO039 Zoogeography
BIO147 General Vertebrate Biology

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

BIO112 Animal Populations and Evolution
BIO135 Aquatic Systems
BIO136 Biology of Molecules
BIO137 Call Infrastructure
BIO138 Insect Structure and Function
BIO139 Biochemistry
BIO238 Laboratory in Biochemistry
BIO141 Physiology of Microorganisms
BIO147 Plant Ecology

In the fourth year of full-time study (or equivalent) students normally select from among the C-level courses in Biology.

Students interested in biology, but not intending to take other biology courses should refer to:

SC0232Y Introduction to Natural Science: The Biological Sciences
BIO021 Quaternary Environments and Man.
BIOLOGY

Introductory Biology

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

Instructor: The Faculty

Session: Winter

Content: Specific topics include: the chemical constituents of cells, cell structure and function, inheritance, the structure and function of the nervous system, the genetic control of development, enzymes and their functions, cellular metabolism, photosynthesis, molecular basis of nuclear con- traction, basic ecology, the nerve impulse, function of the nervous system, evolution.

Teaching Method: Lectures and laboratory work.

Evaluation:
1 one-hour lecture examinations.
2 one-hour examinations based on laboratory material.
1 Practical laboratory test.
1 final examination.

BIOLOGY

Basic Microbiology

Prerequisite: BIO50

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

Instructor: J. Silver

Session: Winter

Objectives: To gain awareness of the world of microorganisms, their physiology, genetics, structure, and importance in medicine, industry and ecology. To obtain proficiency in the handling and growing of microorganisms in the laboratory. To introduce microbiological techniques used in industrial, hospital and basic research laboratories.

Teaching Method: One (two-hour) lecture and three hours of laboratory each week.

Evaluation: Lecture - 60%
Laboratory - 40%

BIOLOGY

Plant Physiology

Prerequisite: BIO53

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

Instructor: J. Silver

Session: Winter

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

Teaching Method: Lectures and laboratory work.

Evaluation:
2 one-hour tests based on lecture material.
1 three-hour examination based on laboratory material.
BIO 119 - Animal Population and Evolution

Prerequisites: BIO 110, BIO 112

Course description: A study of the process of heritable changes in animal populations with special regard to population genetics, population dynamics and species diversity.

Instructor: E. Campbell  Session: Winter Day

Content: The lectures deal with genetic variation and its source, natural selection, genetic drift, and modes of speciation. The laboratory consists of problems in population genetics and the discussion of current literature on evolutionary and population ecology.

Evaluation: 4 tests, 16 problem sets and 1 major essay.

BIO 223 - Aquatic Systems

Prerequisites: BIO 100, BIO 112

Course description: A lecture seminar course with optional field work, on the ecology of ponds, lakes and rivers, with special reference to energy transfer in these ecosystems.

Instructor: C. Maleyko (Sproule); D. D. Williams. Session: Winter Day


Teaching Method: Two hours of lectures per week. Informal tutorials, seminars by visiting scientists, and field/laboratory work amount to about 2 hours per week. In addition, students are expected to write 2 major essays on assigned topics.

Bibliography: Limnology - Metcalfe, R.G.; Ecology of Running Waters - Bynoe, R.N.

Evaluation: 2 tests - 50%; Essays and reports of field/laboratory work - 50%.

Objectives: To become familiar with physical, chemical and biological characteristics of aquatic systems.
BIO677Y  General and Comparative Physiology
Prerequisite: BIO303
Course description: The function of cells and of the organ systems within the organism. Topics include: (1) Body fluids and circulation, (2) Ionic and osmotic balance, (3) Excretion, (4) Gas exchange, (5) Nerve and muscle physiology.
Instructor: C. F. Govind
Session: Winter Day
Content: Topics include: 1st term: nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation, and responses to hormones and neurotransmitters; 2nd term: homeostasis, synthesis and breakdown of proteins, and all aspects of the nervous system. Students will gain a complete understanding of cell and organ function.
Teaching method: Lectures and laboratory work.
Evaluation: 3 term tests, laboratory reports, final examination.

BIO115S  Biology of Macromolecules
Prerequisite: BIO303
Course description: The basic concepts of the molecular biology of living systems. The course will cover the structure and function of DNA, RNA, and protein synthesis. The student will obtain a basic understanding of the techniques used in molecular biology.
Instructor: I. Brown
Session: Winter Day
Content: The course is divided into two sections. The first deals with the structure and replication of DNA, RNA, and protein synthesis. The second concentrates on the mechanism of gene expression and regulation. Students will participate in laboratory exercises and develop a basic understanding of the techniques used in molecular biology.
Teaching method: Lectures and laboratory work.
Evaluation: 2 term tests, 2 lab tests, lab reports.

BIO303  Cell Ultrastructure
Prerequisite: BIO115S or BIO303 or BIO677Y
Course description: Current concepts in animal and plant cell structure. Lectures deal with the structure, development and function of the structural components of cells. Laboratory work focuses on the interpretation of these components as they appear in electron micrographs.
Instructor: R. Dengler/J. Youen
Session: Winter Day
Content: Topics include: (1) methods used in the preparation of cell preparations for electron microscopy; (2) cell structure and cell surfaces; (3) cell organelles, e.g., endoplasmic reticulum, Golgi apparatus, mitochondria, plastids, etc.
Teaching method: Lectures and laboratory work.
Evaluation: 1 term paper, 1 lecture examination.
Course description: Evolutionary relationships between the major groups of plants are examined through a comparison of representative structures and life histories of selected living and fossil organisms.

Instructor: R. Douglas  
Session: Winter Day

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

Teaching Method: Lecture and laboratory work


Evaluation: Short laboratory quizzes, 4 laboratory examinations, two lecture examinations, final.

Course description: The structure of the cells, tissues, and organs making up the major body systems of a variety of vertebrates as revealed through the light and electron microscopes. Differences between species, tissues, and organisms will be considered in the light of function, development, evolution, and function. Each student will be required to do an individual biotecnique project.

Instructor: J. Youm  
Session: Winter Day

Content: First term: methods used in the preparation of tissue for examination in the light microscope and a description of the various tissues of the body (epithelial, connective tissue, muscle, nervous tissue, etc.). Second term: the relationship of the above tissues in the organ systems (sensory, digestive, respiratory, excretory, reproductive, and endocrine systems).

Teaching Method: Two 1-hour lectures and 3 hours of laboratory work per week.

Evaluation: Four laboratory exams (2 per term) - 40 marks  
Two lecture exams, one at the end of term - 50 marks  
Major laboratory report from project.

Course description: The diversity of structure and function amongst insects will be considered from the standpoint of the adaptive responses of the individual and the population to the environment.

Instructor: C.S. Davlin  
Session: Winter Day

Content: Neuroanatomical analysis and central control of insect flight; flight orientation mechanisms; escape responses in cockroaches; hearing in nocturnal moths; development and regeneration of neural and muscular systems.

Teaching Method: Lectures, seminars and laboratory work.

Evaluation: Seminars, essays, term test, final examination.

Lab: TBA

Course description: A lecture/laboratory course on the fundamentals of animal and plant distributions, as related to ecological, historical and evolutionary factors.

Instructor: C. Guse  
Session: Summer Day

Course description: A lecture and laboratory course on the physiology of microorganisms (algae and bacteria). Emphasis will be placed on growth, energy transformations, nutritional and biochemical pathways, and the role of photosynthesis, respiration and other metabolic pathways. Organic carbon compounds as sources of carbon and energy. Microbial activity and cycles of phosphorus, nitrogen, carbon and trace elements in nature. Interaction between organisms: symbiosis, antagonism, competition.

Instructor: J. Wilner  
Session: Winter Day


Instructor: J. Wilner  
Session: Winter Day

Course description: General vertebrate biology

Instructor: A. Weatherley  
Session: Winter Day

Course description: An integrative course on the vertebrates emphasizing comparative, evolutionary and physiological approaches, and concerning attention on the life cycle of the evolving and dynamic unit of study. Topics will include evolution, adaptation, diversity, diversity, zoology, taxonomy, physiology, anatomy, and general biology; utilization, conservation, management. Course will consist of seminars, laboratories and some lectures on selected topics.

Instructor: A. Weatherley  
Session: Winter Day
Course Description: A lecture course with laboratory and field work on the ecology of plants. This course is designed for students with some previous experience in ecology courses, and who are enrolling in some previous experience in environmental science. It will cover science with a primary emphasis on plant-environmental interactions, i.e., plant structure, function, and function. The primary emphasis is on plant community structure, distribution, and function with an emphasis on plant community adaptation, dynamics, and energetics. Some attention will also be given to historical factors.

Instructor: J. C. Ritchie

Biology: Winter Day

Course Content: The nature of the plant community and its relation to plant communities; a concise review of plant community distributions and their general relations to the physical environment. This course will also cover several methods of analysis of plant communities, illustrated particularly in the local area, and apply to methods of description and analysis. The course will also cover the dynamics of plant communities; historical perspectives, energy flow in the plant community; the occurrence and water cycles; applied aspects of plant communities -- disturbance factors in the community; the nature of adaptations; technological development. Aclimatology, ecology, and ecological factors in species-level evolution.

Teaching Method: Lectures and field work.

Evaluation: One 3-hour Christmas exam = 55%; one laboratory and fieldwork report = 25%; one final exam = 20%

BIOG 2003Y

Supervised Study in Biology

Inclusions: (BIOG 2003Y, BIOG 2002Y)

Prerequisites: Satisfactory completion of fifteen full-course equivalents, of which at least four must be Biological Science 3-level courses.

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

Instructor: Name of Faculty

BIOG 2007Y

Directed Research in Biology

Inclusions: (BIOG 2007Y, BIOG 2002Y)

Prerequisites: Completion of fifteen full-course equivalents, of which at least four must be Biological Science 3-level courses.

Course Description: Identical to BIOG 2003Y but not to be taken with the same faculty member.

Instructor: Name of Faculty

BIOG 2009Y

Field Course in Aquatic Biology

Prerequisites: BIOG 3001, BIOG 3051

Course Description: The course will be given in late August or early September, before the beginning of term. Physical, chemical and biological aspects of various aquatic habitats will be studied intensively in a two-week period of laboratory and field work, supplemented by lectures and discussion groups. Limited enrolment: 10, instructor: C. Malawaro (Utrecht); R.D. Williams. Session: Winter

Objectives: To gain practical research level experience in a whole ecosystem study of a lake and/or stream.

Content: During a 14-day period (end of August-beginning of September) students will study a lake or stream in the vicinity of Utrecht. An intensive sampling programme will include measurements of physical and chemical parameters, nutrients, primary production, phytoplankton and microphytobenthos, benthos, and fishes.

Teaching Methods: Field and laboratory work will be supplemented by lectures and discussion groups.


Evaluation: Evaluation will be based on participation and on written reports.

BIOG 3001Y

Phytoplankton Methods and Techniques

Prerequisites: BIOG 3015Y

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

Instructor: C. Malawaro (Utrecht)

Session: Winter Day

Content: Principles of phytoplankton taxonomy. Isolation and analysis of unicellular and eukaryotic cultures of algae. Parameters for estimation of phytoplankton populations. Spatial heterogeneity, and seasonal succession of phytoplankton in (a) the Great Lakes; (b) a lake in Southern Ontario. Method: One 3-hour section per week. Formal lectures are de-emphasized, while laboratory work and seminars are stressed.

Bibliography: Reading material consists almost exclusively of papers from scientific journals. Most of these are available from the reserve room in the library.

Evaluation: Individual seminars (2) = 25%, Group experiments (2) = 35%, Class project (1) = 40%

Objectives: To gain practical experience in phytoplankton ecology and in the sampling, identification and enumeration of planktonic algae. Additional Comments: Advanced and graduate level course, for students with background in physiology and ecology of algae. Dr. E. Kranmer, research associate at Canada Centre for Inland Waters, Burlington, participates in this course.
Chemistry

Staff members responsible for curriculum: T. Jack, P. Bruner, R. McCallion

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool through which to develop the resources of our contemporary society. The Chemistry Handbook for 1978-79, available at the Chemistry office, outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities. A sound knowledge of the fundamental concepts of Chemistry is useful to any student in the physical or life sciences.

The basic course in Chemistry is CM1101 or CM1102, one of which must be taken by those who wish to take further Chemistry courses or who require Chemistry for another science.

Completion of CM1101 or CM1102 permits students to take any of the 3-level courses in Chemistry. These are divided according to the following subdivisions: Inorganic Chemistry (CM2101); Analytical Chemistry (CM2102); Physical Chemistry (CM2103); Organic Chemistry (CM2104); Physical Chemistry (CM2105); and Biochemistry (CM2106). Thereafter, one can proceed to the following advanced-level courses: CM2106 (Inorganic), CM2102 (Physical), CM2104 (Organic), and CM2105 (Biochemistry).

For those who wish to enroll subsequently in St. George 400-series courses, completion of the following groups of courses together with their prerequisites and prerequisites, will ensure admission to the St. George courses indicated:

Search the Courses St. George Series
CM1101/102; CM2101; CM2102; CM2103
430
CM1101/102; CM2103; CM2104
420
CM1101/102; CM2104/204; CM2105
440 (except 447)
(providing a standing or permission of the instructor is obtained)

While courses in Physics do not appear among the prerequisites or corequisites of most courses in Chemistry, students are urged to take PHYS101 or PHYS102 early in their programs. Thus, the suggested first-year programs in Chemistry includes CM1101 or CM1102, PHYS101 or MAT113, and PHYS102 or PHYS104.

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

Supervisor of Studies: H. A. MacIeIland

Students should complete the following fifteen required courses:
1. In the first year of full-time study (or equivalent):
   CHIM101Y or CHIM102Y Principles of Chemistry/General Chemistry
   MAT106Y or MAT105Y Calculus
   or
   CHIM104N or CHIM103N Calculus and Linear Algebra
   PHYS101T Classical Mechanics/Principles of Classical Physics
   or
   PHYS102T

2. In the second and third years of full-time study (or equivalent): 
   CHIM201T Inorganic Chemistry I
   CHIM202Y Analytical Chemistry
   CHIM203Y Physical Chemistry I
   CHIM205Y/CHIM206Y Organic Chemistry I/II
   CHIM207T Inorganic Chemistry II
   CHIM210Y Analytical Chemistry II
   MAT106S Techniques of the Calculus of Several Variables I
   MAT106S Techniques of the Calculus of Several Variables II
   MAT205Y Vector Analysis
   MAT205S Vector Analysis II

   Students should note that if they are going to elect MAT205S and MAT205Y they must take MAT106S, MAT106Y among their first five courses and MAT106Y among their first ten courses.

3. In addition, four more full courses in Chemistry, including at least three full courses selected from the CHIM400 - 499 series and the 400 level courses at the St. George Campus. At least one full course must be taken at St. George from the 400 level, or CHIM204P (Crystal Chemistry) or CHIM235P (Macromolecular Chemistry).

4. MAJOR PROGRAMS IN CHEMICAL PHYSICS

Supervisor of Studies: F. Bruner (Chemistry) & J. M. Feroz (Physics)

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

Students should complete the following fifteen courses. They include two alternative mathematics programmes. The sequence in parentheses provides a rigorous mathematical development; the alternative sequence emphasizes technique rather than rigour. Students starting in the MAT108T sequence are urged to include MAT106Y and MAT106S at some stage in their programme.

1. In the first year of full-time study (or equivalent):
   CHIM101Y or CHIM201Y Principles of Chemistry/General Chemistry
   PHYS101Y or PHYS102Y Classical Mechanics/Principles of Classical Physics
   MAT106Y or MAT105Y Calculus and Linear Algebra
   or
   MAT106Y

2. In the second and third years of full-time study (or equivalent): the following courses should be taken:
   CHIM201T Inorganic Chemistry I
   CHIM202Y Physical Chemistry I
   CHIM305Y/CHIM306Y Organic Chemistry I/II
   MAT106S and S406 Calculus of Several Variables I/II
   or
   CHIM204P and S305Y Analysis

   CHIM201T

   PHYS301Y Electricity and Magnetism
   PHYS303Y Waves
   PHYS308N Intermediate Physics Laboratory
   PHYC314P and PHYC313P Applied Differential Equations/Advanced Dynamics

3. In the fourth year of full-time study (or equivalent): four full courses must be taken, including a CHIM400 series course on the St. George campus, a third year physics course (e.g., PHYS301Y, PHYS303Y) and two other courses in either third/fourth year Chemistry or third/fourth year Physics/Mathematics.

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

NOTE: In addition to the courses noted above an additional Biology course is recommended.
CHIM 110 (CHIM 111) General Chemistry

Exclusion: CHIS 111
Prerequisites: Grade 12 Chemistry (or Grade 11 Chemistry and permission of instructor); Grade 12 Functions and Relations
Corequisites: HART 111 or HART 112 or HART 113

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

Instructor(s): Members of the Chemistry Faculty. Session: Winter Day

Contents: Starting with the stoiche of the course develops ideas of structure and bonding to include most covalent and ionic structures. The reactions and equilibria of chemical systems will be explored through their thermodynamic properties and chemical kinetics. A selection of important analytical methods and their applications of logical importance, will be presented, with emphasis on their three dimensional structure and types of reactions.

Teaching Method: Two lectures per week, one four-hour laboratory every other week. A tutorial will be available for consultation ten hours per week in the Chemistry Learning and Resource Centre.

Evaluation: The final mark is based on problem sets, hour tests, a mid-year examination, a final examination, and laboratory performance.

CHIM 111 Inorganic Chemistry I

Exclusion: CHIS 111 or CHIM 110
Prerequisites: CHIM 110 or CHIM 111

Course Description: Atomic and molecular structure, including energy levels, bonding, Electronegativity, lattice energies, heats of formation and hydration. Selection state diagrams. Chemistry of hydrides, halides and selected topics in Main Group elements.

Instructor: T. R. Jack Session: Winter Day

Contents: The further development of the ideas of structure and bonding introduced in CHIM 110 and CHIM 111. The nature of bonding in covalent, ionic and coordination compounds. Thermodynamic and kinetic considerations in compound formation. The use of these concepts to rationalize the descriptive chemistry of the periodic table with special emphasis on the main group elements.

Teaching Method: Two lectures and one additional period per week to be used for supplementary or remedial work as required.

Evaluation: Tests, problem sets, and exam.

CHIM 112 Analytical Chemistry

Exclusion: CHIM 112
Prerequisites: CHIM 110 or CHIM 111
Other recommended courses: CHIM 113

Course Description: Introduction to qualitative and quantitative analysis including gravimetric and volumetric analysis, electrochemical and spectrophotometric methods of analysis, separatory techniques.

Instructor(s): To be announced Session: Winter Day

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

Contents: The course consists of three main divisions: qualitative and quantitative analysis by wet chemical methods, classical quantitative analysis by spectrophotometric analysis. The instrumental methods employed include spectrophotometric and volumetric analysis. The instrumental sections of the course will be based on techniques of various electrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques.

Teaching Method: Six hours of laboratory per week and laboratory performance, a final examination, and term tests and problems.

CHIM 113 Physical Chemistry I

Exclusion: PHYS 109
Prerequisites: CHAM 110 or CHMA 111; HART 112 or HART 113; PHYS 101 or PHYS 102
Corequisites: MATH 211 and MATH 212 are strongly recommended but not required. See Physical Chemistry II, however.

Course Description: Introduction to the kinetic theory of gases, quantum mechanics, thermodynamics, statistical mechanics, and applications of thermodynamics.


Contents: The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half ends with a treatment of the thermodynamics of chemical behavior. The basic laws of chemical kinetics are introduced near the end of the course, and their application to a wide variety of contemporary problems including spontaneous processes, chemical equilibria, etc., is emphasized.

Teaching Method: 2 lectures a week; occasional tutorials.

Evaluation: Problem sets, tests, mid-year examination, and a final examination.
CIMC805 Organic Chemistry I
Prerequisites: CHM105 or CHM112
Course Description: The chemistry of the principal functional groups encountered in biological and medicinal compounds. This course is designed for students with a strong background in general chemistry and is intended for majors in chemistry or intending further study in chemistry.
Evaluation: Examination, laboratory, and homework assignments.

CIMC806 Physical Chemistry II
Prerequisites: CHM305 or CHM306
Course Description: Quantum mechanics and its application to theories of atomic and molecular structure, and spectroscopy. Basic statistical mechanics, thermodynamics, chemistry. The laboratory associated with this course introduces advanced experimental techniques.
Evaluation: Examination, laboratory, and homework assignments.

CIMC807 Inorganic Chemistry II
Prerequisites: CHM107, CHM108
Course Description: A study of transition metal chemistry including analysis, stereochemistry, and structure and energy levels; crystal field theory; molecular orbital theory; a thermochromic and structural survey of divalent ions, trivalent and higher oxidation states, and of coordination compounds, etc.
Evaluation: Examination, laboratory, and homework assignments.

CIMC808 Organic Chemistry II
Prerequisites: CHM208 or CHM208B
Course Description: Introduction to the structure, synthesis, and reactivity of organic compounds of biological importance. Application of organic reactions, stereochemistry, mechanism, and synthesis. The laboratory will emphasize the use of modern physical techniques, nucleic acids, and the chemistry of natural products. This course will serve as a prerequisite for CHM808 (St. George) only with the consent of the instructor.
Evaluation: Examination, laboratory, and homework assignments.

CIMC809 Advanced Organic Chemistry
Prerequisites: CHM309 or CHM309B
Course Description: Advanced topics in organic chemistry, including stereochemistry, conformations, reactions, and mechanisms. The laboratory will emphasize the use of modern physical techniques and the chemistry of natural products.
Evaluation: Examination, laboratory, and homework assignments.

CRNC447Y Library Thesis

Exclusion: CRNC447Y/B

Other Recommended Courses: Normally only for individuals who have completed 15 courses and who are pursuing one of the Chemistry Major Programmes.

Prerequisites: Permission of the instructor

Course Description: 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 240 hours of work are expected.

Instructor(s): Members of the Chemistry Faculty. Sessions: Summer Day Winter Day

Objectives: 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.

Content: The topic will be selected in consultation with a member of the Chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Bibliography: The chemical literature.

Evaluation: The mark will be awarded based on the quality of the written work and an oral presentation.

CRNC449Y Introduction to Research

Corequisites: One of the advanced laboratory courses at St. George (Chem 439 or Chem 469) except for students undertaking a project in Physical Chemistry.

Prerequisites: Permission of the instructor

Course Description: Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 240 hours of effort.

Instructor(s): Members of the Chemistry Faculty. Sessions: Summer Day Winter Day

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

Objectives: To develop familiarity with some of the methods of modern chemical research.

Content: The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research.

Bibliography: As relevant to the individual problem.

Evaluation: Will be based on the quantity and quality of work carried out by the student and on an oral presentation.

CRNC451Y Special Topics in Inorganic Chemistry

Prerequisites: CRNC300

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

Instructor(s): T. Jack / A. Walker

Sessions: Members of the Chemistry Faculty. Sessions: Summer Day Winter Day

Content: Topics of interest aimed to provide 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.

Bibliography: The current chemical literature.

Teaching Method: Two lectures per week.

Evaluation: To be decided. This can be in the form of a final examination, seminar, essay or research proposal. The specific form to be followed will be announced at the beginning of the course.
Special Topics in Organic Chemistry

Prerequisites: CNCH20

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

Instructor(s): A.J. MacDougall / R. Mallet
Session: Winter Day

Content: This course will likely deal with organic reaction mechanisms in 1978-79, and CNCH445 (St. George) will probably be an excluded course.

Teaching Method: Two lectures per week.

Evaluation: A final examination plus other assignments.

Special Topics in Physical Chemistry

Prerequisites: CNCH02

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

Instructor(s): P. Brown / J.E. Deva / G.A. Ramsay-Wallace
Session: Winter Day

Content: The content of the course varies from year to year, and in 1978-79 will focus on topics in quantum chemistry or theories of elementary chemical reactions.

Teaching Method: Two lectures per week.

Evaluation: (Tentative) 1 major paper and seminar presentation Literature research assignments

Courses not offered 1978-79

COM107 Principles of Chemistry

Exclusion: CNCH02
Prerequisites: Grade 13 Chemistry; Grade 13 Functions & Relations
Corequisites: MATH10 or MATH15; PH1H01 or PH1H02

COM201 Organic Chemistry I

Exclusion: CNCH05
Prerequisites: CNCH01 or CNCH02

COM212 Kinetics & Mechanism of Chemical Reactions
Corequisites: CNCH01; CNCH02; CNCH03

COM213 Structure & Synthesis of Chemical Compounds
Corequisites: CNCH01; CNCH02; CNCH03

Classical Studies

Discipline Representative: T.B. McDonald.

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

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

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

Students interested in Classics should also refer to:

BAA035 Art and Nature of Comedy
FAR021 Archaic Greek Sculpture
FAR031 Classical Greek Sculpture
FAR042 Wall painting in the ancient world
HUM026 Hercules: Man of Action
HUM030 The Odyssey
HUM031 The Iliad
HUM032 Orpheus: The Quest of Beauty
HUM033 Love and Friendship
HUM034 The Age of Pericles
HUM035 The Age of Augustus
HUM036 The Age of Nero
HUM037 The Age of Nero
HUM041 Women in Ancient Greece
HUM042 Women in Ancient Greek History: Theory and Practice
PHL040 Plato and his Predecessors I
PHL041 Plato and his Predecessors II
PHL042 Aristotle and Later Greek Philosophy I
PHL043 Aristotle and Later Greek Philosophy II

MAJOR PROGRAMMES IN ENGLISH AND CLASSICS

See Page 137 of this Calendar
GREEK AND ROMAN TRAGEDY

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

Instructor: John Grant  Session: Winter Evening

Content: Most of the course will be devoted to study of the Greek tragedies, since the work of only one Roman tragedian, Seneca, has survived. No knowledge of Greek or Latin or of the classical world is assumed. After the introductory lectures the two-hour session will consist of lectures and discussion. Students will in turn be asked to report to the class on critical literature examined by the instructor.

Evaluation: One term test (at end of Fall term), one major essay, one major essay and either a second major essay or another term test.

GREEK HISTORY FROM THE BRONZE AGE TO THE DEATH OF ALEXANDER

Course description: An introduction to political, economic, social and cultural aspects of Greek history. It will be assumed that most students will have had some experience of the methods and objectives of historical study, and that this course will therefore be introductory. The period of the Homeric epics will be covered, and the tyrants of Ionia, the Persian Wars, the Peloponnesian War, the Hellenistic state, Alexander the Great, and the Hellenistic kingdoms will be considered in detail.

Instructor: T.B.A.  Session: Winter Day

Note: Further information will be available later from Room 8573a.
COD736
Roman History from the Graeco to Neo

Course Description: A study of the Roman Republic as a social and political system, the collapse of the republican form of government and the reconciliation of republican forms with military despotism and fortifying democracy. This course will emphasize close study of the primary sources, read in translation.

Instructor: J. Corbett
Session: Winter Day

Content & Objectives: The course includes an introduction to the political and social structures of the later Republic with emphasis on political reform and reaction, the political uses of violence and the intervention of the army in politics; the careers of Julius Caesar and Augustus will be considered in detail. In the second term the emphasis will be on the origins and implications of the early Imperial system. Students will be expected to acquire a general familiarity with the literature written about these subjects, to choose one topic area each term and present a paper on it, and to develop a personal view of the subject on the basis of his/her study.

Teaching Method: One two hour lecture with discussion and one hour of tutorial per week.

Evaluation: Essays and Oral Presentations (one of each per term) 44%
Final written exam 56%

Note: A detailed Course Outline and Bibliography are available on request. The major text is R.H. Scullard, From the Graeco to Neo (Weinman University Press 1969).

GRAD4Y
Studies in Roman History: Pompeii

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

Instructor: J. Corbett
Session: Winter Day

Content & Objectives: The course includes a study of the rise and development of Pompeii, its major public buildings and services, as well as private residences and businesses; urban institutions and social structures will also be examined with a view to reconstructing the daily life of the people who lived there. Students will be expected to develop a general familiarity with the site of Pompeii through study of slides, maps, plans, general books and excavation reports etc., to choose a research topic and to prepare and present a major paper on that topic.

Teaching Method: One two hour seminar per week.

Evaluation: Outline of project 10%; oral presentation 20%; research paper 70%

Note: A detailed bibliography is available on request.
GREEK12  Plato: Apology
Prerequisite: GREEK11

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

Instructor: J.A. McDonald  Session: Winter Day

Objectives: To read in Greek and understand the Apology (Plato’s account of Socrates’ defense against the charges of corruption and sedition); to appreciate the magnitude of the trial and the event; to develop reading skills and increase appreciation of the clarity and beauty of the Greek language.

Content: The reading of the text will occupy most time, but we will also consider the political, legal and social situation in Athens at the time of the trial and other ancient evidence for the character of Socrates and the nature of his trial; and review and further study Greek forms and constructions.

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

Plato, The Last Days of Socrates, tr. E. Tredennick (Penguin 1949)
A Greek-English Dictionary.


GREEK315-2105 Supervised Reading
GREEK316-2105
GREEK407

Prerequisite: GREEK11 or GREEK12

Course description: Reading of texts in Greek chosen by consultation between student and faculty.

Instructor: M.S. Irwin  Session: Winter Day

Nature of the Programme: Students who wish to enter on the Greek Directed Reading Programme should enrol in any of the above courses. They should then contact the co-ordinator and discuss with her what they want to read and with whom. (This will depend on some extent on time available). The student will be expected to read much of the material on his/her own and to meet with the co-ordinator normally for a two hour period - the exact arrangements depending on the difficulty of the text and the needs of the student’s ability. The purpose of these sessions will be to sort out any problems of pronunciation, and to discuss the literary qualities and cultural context of the work being studied.

LATRO101  Catullus
Prerequisite: Grade 12 Latin or LATRO1

Course description: A selection of the works of Catullus will be read. The influences which affect Catullus and his contribution to Latin poetry will also be studied.

Instructor: John Grant  Session: Winter Day

Content: The material studied will be primarily the love poetry of Catullus but some of the minor works and one or two of the ‘dog poems’ will also be examined. The text used will be Quint’s edition (Macmillan, 1910).

Evaluation: Two tests (translation and comment), one essay, eight translations (worth 100).

LATRO110  Introductory Latin
Course description: The purpose of this course is to acquaint the student with the essentials of the Latin language. Although the emphasis will be on language, selected texts will be read to introduce the student to Latin literature. On completion of the course a student will be equipped to proceed to LATRO1 or LATRO2.

Instructor: J.B. McDonald  Session: Winter Day

Prerequisites: To bring the student with no previous knowledge of Latin to a sound basic reading knowledge of prose and poetry, with some time given to helping him see the language in its cultural and historical context.

Content: The fundamentals of the language and its essential tools: vocabulary, grammar, and syntax. Reading and comprehension of passages of increasing difficulty drawn from a variety of authors.

Teaching Method: Four one-hour classes are designed mainly to allow presentation of the basics, exercises, drills, and reading; but this will be varied as the needs of the class require, and other activities intended to reinforce linguistic skills and increase awareness of the cultural milieu.

Evaluation: A final examination (50%); short quizzes, exercises, and assignments (50%).

Text: The basic text will be P.W. Wheelock, Latin: An Introductory Course Based on Ancient Authors. Others may be assigned.

Important Note: The aims of this course can be achieved only if the student devotes some time each day to it. It is not a course the work of which he can afford to neglect for any extended period.
LAT5026  Catullus

Prerequisite: Grade 13 Latin or LAT501

Course Description: Salust's Catilinarian Conspiracy and Selections from Cicero's orations in Catullus will be read. The
texts will provide an opporunity of comparing two accounts of the
same events from both a literary and historical viewpoint and of
examining the causes for the breakdown of the Roman Republic.

Instructor: John Grant  Session: Winter Day

Content: Apart from reading the prewsented texts, students will be
expected to gain some knowledge of the history of the last century
of the Roman Republic and of the political institutions of the
period.

Teaching Method: The class will meet three hours a week. Class
attendaence will be given to accurate comprehension of the texts.
Students will give a brief oral report on some aspect of the subject.

Evaluation: Two translation and comment tests, oral report, sight
translation (worth 10%).

LAT5126 Virgil; Aeneid

Prerequisite: LAT501 or LAT502

Course Description: An introduction to what is arguably the
greatest poem in Latin literature. Any student of Latin beyond the
second year (and better) would do well to take this course before entering an Directed Reading (350-39).

Instructor: J.N. Grant  Session: Winter Day

Content: Two books (or the equivalent) will be studied in detail
but a knowledge of the whole work will be required. Students will
find it beneficial, therefore, to have read the complete poem in
translation before the course begins.

Evaluation: Two tests (translation and comment), one essay, sight
translation (worth 10%).

LAT6705F Supervised Reading

Prerequisite: LAT501 or LAT502  Students are advised to take
LAT5126 either before or at the same time as they enter the
Supervised Reading Programme.

Coordinator: I. McDonald

Nature of the Programme: Students who wish to enter in the Latin
Supervised Reading Programme should enroll in any of the above courses
(P/F/YT as appropriate). They should then contact the coordinator
and discuss with him what they wish to read and with whom (this will
depend on some extent on time available). The student will be
expected to read much of the material on his own, and to meet with
the instructor at regular intervals. Course arrangements will depend
on the nature of the text and level of ability of the students. The purpose of these sessions will be to sort out
any problems of comprehension, and to discuss the literary qualities
and cultural context of the work being read.

LAT6105 Independent Studies

Prerequisite: At least two of LAT501, LAT502, LAT5203, 350-39;
LAT53-39: permission of instructor.

Content: A student will be expected to read considerably more than
is required in the supervised reading courses. The reading may be
confined to one book or be grouped around a topic or course. A
student who requests for both CSIF and CRST may be permitted to
present a major essay, on a topic approved by the faculty in
Classics, as the work required for CRST. Students will meet
regularly throughout the term with a member of the faculty.

Objectives: To widen students' knowledge of Latin literature beyond
those works and authors which have been studied in earlier courses.

Additional Comment: A student interested in Independent Studies in
Latin should meet with the Discipline Representative, Prof. I.
McDonald, before enrolling, preferably in the spring term of year
preceding his beginning the program.
Assistant Chairman: R. Babish

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

Students may take Commerce courses as part of a fifteen or twenty course degree (normally a B.A. degree) and may, if they wish, work towards completing the twenty-course Major Program in Commerce and Economics. A graduate of a fifteen or twenty course degree program may be eligible for admission to graduate study in business or may seek a job in business immediately after graduation.

A brochure describing accounting careers is available from the Student Services Office (264-328).

The College does not offer the bachelor of Commerce (B. Comm.) degree. Students who wish to obtain the B. Comm. must either enter or transfer to another college of the University (at the St. George or Erindale campus). Because of differences in course and degree requirements, such transfers should take place as early as possible in a student’s academic career.

Admission to graduate study in business towards the Master of Business Administration (MBA) degree is open to all qualified graduates regardless of the subject or disciplines studied at the undergraduate level. Students contemplating graduate study would be well advised to indicate their interest in Commerce in their undergraduate programme. They should also consider strengthening their preparation for graduate work by taking courses in economics, mathematics, computer science, sociology, psychology and anthropology.

Limited enrolment: because of pressures of demand for places, it has been necessary to place excellent limits on many Commerce courses. Under present College rules, preference is given to students with academic seniority and those with the greatest number of full course equivalents.

Students who delay submitting their course selection forms until the end of the summer may find many limited enrolment courses have been closed.

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

In view of the many academic and career options available in the Commerce area, students are encouraged to seek the advice of the Supervisor of Studies for Commerce (264-3115).

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

JCE574 Industrial Relations
JCE575 Analysis for Decision Making I
JCE576 Analysis for Decision Making II
JCE577 Corporation Finance
JCE578 Organizational Behaviour
MAJOR PROGRAMS IN BUSINESS AND ECONOMICS

Supervisor of Studies: J. Babiak

The major programs in Commerce and Economics are designed to provide the student with a foundation either for a management career in commerce, including banking and insurance, or for further study in such fields as accounting, economics, law and management.

The programs require completion of the following minimum requirements as part of a twenty-course degree:

1. Six full-course equivalents in Commerce including COM201, COM202, COM203, COM204, COM205, COM206; (see Note A)
2. Five full-course equivalents in Economics including ECNS101, ECNS102, ECNS103, ECNS104, ECNS105; and either ECNS106 or ECNS107;
3. A course in Calculus (MATH131) or MATH135 or MATH235;
4. A half-course in Computer Science (CSSC126 or CSSC128);
5. One and one-half full course equivalents from areas other than Commerce, Computer Science, Economics and Mathematics.

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

Note A: JCC courses may be counted as either Commerce courses or Economics courses. If JCC courses are used to meet the Economics requirements, other Commerce courses may be substituted in meeting the Commerce requirements.

Chartered Accountancy as a Career

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

COM101

Financial Accounting

Course Description: Basic theory and concepts which underlie the preparation of financial statements; development of accounting 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.

Instructor: J. Babiak (Co-ordinator) Session: Summer Evening and others Winter Day and Evening

Content: The course begins with an examination of the "accounting equation" and then looks into the methods of measuring revenues and expenses and valuing assets and equities. The course stresses both accounting techniques and the principles or concepts underlying those techniques.

Teaching Method: Evening classes - one night a week for three hours, of which one hour will be a lab/tutorial. Day classes - two hours a week plus a lab/tutorial where it can be arranged. (Summer - two to three hours of lecture/lab/discussion taken a week).

Evaluation: Two mid-term tests plus examinations in December and April. Weekly homework assignments also. 10% of the final mark. (Summer - three term tests and a number of short quizzes plus two homework assignments per week).

Additional comments: The workload in the course is substantial and is spread evenly over the year. Many students, especially those in first year, find the course very demanding.

ACCOUNTING THEORY

Prerequisite: COM101

Course Description: An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation, including the problems of changing price levels.

Instructor: J. Babiak Session: Winter Day

Content: A detailed examination of balance sheet and income statement issues, including problems of recording, valuation and disclosure.

Teaching Method: Most of the classroom will be devoted to students' presentation of solutions to discussion questions, exercises and problems.

Bibliography: The CICA Handbook and an intermediate accounting text will form the major sources of information.

Evaluation: Weekly homework problem assignments, three tests and a final examination and class participation will all be evaluated. A number of short quizzes will also be given.

Additional comments: The course builds extensively on the material in COM101 and, as a prerequisite, COM101. Students planning to take the course should review thoroughly their understanding of the accounting cycle, preparation of financial statements and other basic concepts from COM101 prior to the start of the course.
COM337Y Marketing

Prerequisites: COM301

Course Description: Marketing management is concerned with those business functions directly involved in the sale of goods and services. The course examines the theory of consumer behaviour and sources of market information as well as the traditional areas of product, price, promotion and distribution. Limited enrolment: 50.

Instructor: T.J. Mitchell

Session: Winter Day

Evaluation: Evaluation will include, among other things, a mid-course test and a final examination.

Additional Comments: No further details are available at the present time. For further information, contact the Supervisor of Studies, Commerce.

CON151Y Income Tax

Prerequisites: COM101

Course Description: 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.

Instructor: T.B.A.

Session: Winter Evening

Evaluation: There will be a mid-course test, a final examination and regular homework assignments.

Additional comments: No further details are available at the present time. For further information, contact the Supervisor of Studies, Commerce.

CON339Y The Legal Environment of Business

Prerequisites: Completion of at least ten courses including COM301 and ECO201

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

Instructor: T.B.A.

Session: Winter Day

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

Additional comments: No further details are available at the present time. For further information, contact the Supervisor of Studies, Commerce.

COMMERCE COURSES NOT OFFERED 1978-79

CON101Y Business Policy

Prerequisites: COM101; (SOC207); JCR207

CON201Y Management Control Systems

Prerequisites: (COM201); (COM207); (SOC207); JCR207; (CON201); COM301 JCR203

COMPUTER SCIENCE

Discipline Representatives: E. Perreault

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

A fundamental concept in computer science is the algorithm—a list of instructions which specifies the steps required to solve a problem. The algorithm may be seen as the key to the solution of the analysis of problems, frequently using the tools of mathematics and statistics, and the formulation of algorithms to solve particular classes of problems. Other areas of interest include the transformation of abstract algorithms into computer programs and the testing and validation of algorithms and programs. Clearly related to these areas are efforts to develop tools for designing better computers and for using them more effectively.

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

Students who wish to study computing primarily in order to use computer techniques in their own specialties should begin with CSCI260 and CSCI266. JCR203 is then available, or are CSCI260, 212P, and 310P, given on the St. George Campus.

Students who are anticipating a career in secondary school teaching should select several courses from the following: CSCI4374, 4327, 4517, 4527, 4532, 4547, 4554, 4564, 4575, 4585, 4597, and 4607 offered on the St. George Campus.

Students should also look at JCR203, JCR205 and JCR211 which are ADDITIONAL COMPUTER SCIENCE COURSES.
MAJOR PROGRAM IN COMPUTER SCIENCE

Supervisor of Studies: R. Perreault

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

In the first year of full-time study (or equivalent):
- CISC539
- CISC545, MATH26/MATH45, MATH40F, MATH40G

In the second year of full-time study (or equivalent):
- CISC46P, CISC37F, CISC37P, MATH41F and MATH42F/MATH50 and MATH55

In the third year of full-time study (or equivalent):
- CISC43F, JNCN21F, MATH42F, MATH52F, MATH52S, MATH41F/MATH40F

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

Two full courses to be chosen from the following options. (Note that only JNCN48 and CISC48 are available at Scarboro and can be taken in third year (or equivalent); the remaining courses must be completed at the St. George campus. Any two of CISC48F, 448S, 448P, 451P, JNCN48 (including at least one of 438P and 448S), and any two of CISC48F, 374P, 414P/5448P, 458S, 474S.

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

MAJOR PROGRAM IN COMPUTER SCIENCE FOR DATA MANAGEMENT

Supervisor of Studies: R. Perreault

There are thirteen courses required for the major program in computer science for data management. The courses may be taken in a different order, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

(1) In the first year of full-time study (or equivalent):
- CISC539, CISC545, MATH26/MATH45 and MATH40F, COM36, ECON21
- MATH40F will be required later in the program if the option MATH26 is chosen.

(2) In the second year of full-time study (or equivalent):
- CISC64F, CISC73F, CISC216, ECON30P, ECON20S, MATH41P, MATH42S

(3) In the third year of full-time study (or equivalent):
- CISC48F, COM36, MATH40F, MATH40G

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

Two and a half full courses to be chosen from the following options. (Note that JNCN48 and CISC48 are offered at Scarboro, while the remaining courses must be completed at the St. George campus.) Any two of MATH41F, MATH42F, MATH41P, MATH42S, MATH41P, MATH42S, and any three of CISC48F, 374P, 414P/5448P, 458S, 474S.

In completing his program, a student is encouraged not to include any computer science courses other than those required above.
CSCA66 Programming Applications

Exclusions: CSCA66 (MAC64) (MAC65) (MAC65A) or CSCA66 (MAC65B)

Prerequisites: (MAC65A) or (MAC65B) or CSCA65 or CSCA68

Course description: A continuation of CSCA64. Practical approaches to solving problems involving data structures, non-numerical applications, graph theory, queue theory, data processing, and numerical computations. The course also covers recursive programming.

Instructor: TBA

Session: Winter Day

Objectives and Content: This course is a continuation of CSCA64 and covers topics from several areas. Topics covered in this course include data structures, recursion, data processing, graph theory (queue theory), and numerical computations. More emphasis is put on data structures and recursion. Three weeks are spent on data structures where structures such as linked lists and trees are studied. The rest of the course is evenly distributed between the other topics.

Evaluation: A one-hour mid-term exam
A final examination
4 or 5 assignments
Bi-weekly tutorial quizzes

CSCA68 Problem Solving with Computers

Exclusions: CSCA66 (MAC64) (MAC65) (MAC65A) or CSCA66 (MAC65B)

Prerequisites: (MAC65A) or CSCA65 or (MAC65B) or CSCA68 and permission of instructor

Course description: A continuation of CSCA66. The application of computers to various numerical and non-numerical problems. Topics include numerical methods, simulations, graph theory, data processing, and the validity of computer models.

Instructor: TBA

Session: Winter Day

Content: Basic data structures: lists, stacks, queues, trees, graphs, recursive programming. Graph theory algorithms. Sorting and searching algorithms. Numerical methods.

Teaching Method: 2 hours of lectures, and a 2 hour tutorial per week.

Evaluation: Mid-term and final exams, and about 4 programming exercises.

CSCB22 Programming Techniques for Data Processing

Exclusion: (MAC225) or CSCA68

Prerequisite: (MAC64B) or CSCA68

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

Instructor: TBA

Session: Winter Day

Content: Topics include: COBOL, programming the Modular approach to program design including: decision tables, if-applicable programming and table driven logic; Sequential file processing including; data validation, external sorting, generalized file processing systems, some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given.

Teaching Method: Lectures and tutorials.

Evaluation: 2 One-hour quizzes, 2 Programming assignments, 3 Written assignments.

CSCB69 Programming Languages and Their Applications

Exclusion: (MAC69) or CSCA69

Prerequisites: (MAC69) or CSCA64

Course description: Programming languages and applications. The syntax and semantics of various programming languages, including structured programming languages. Data structures, numerical and non-numerical applications.

Instructor: TBA

Session: Winter Day

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

Evaluation: A mid-term exam
A final exam
4 - 5 programming assignments

CSCB73 Computer Organization

Exclusion: (MAC73)

Prerequisite: (MAC68) or CSCA64

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

Instructor: TBA

Session: Winter Day

Object: Specific topics include, an introduction to Boolean algebra, the design and analysis of gate networks, memory devices, the organization of a single microprocessor, machine language, addressing structures, mechanisms for input and output, types of peripheral devices, some case studies of particular machines.

Teaching Method: Lectures and tutorials.

Evaluation: 2 - One hour quizzes
4 - Homework assignments
Course description: This course is designed to give students insight into the workings of a programming language processor. It will activate the use of formal languages in the specification of syntax and semantics for a programming language.

Instructor: TBA
Session: Winter Day

Contents: Specific topics include an overview of a language processor, formal analysis, an introduction to the mathematical theory of the structure and semantics of languages, and the implementation of algorithms. Specification of semantics and code generation, the run-time organization of the language processor, storage allocation, the SNOBOL and ALGOL-W language processors will be used as a source of examples.

Teaching Method: Lectures and assignments. A series of assignments will result in the students building their own compiler/interpreter.

Evaluation: 2 - one hour quizzes
6 - Written or programming assignments

Co-operative Programme in Administration

This programme is designed for students who have aspirations towards administrative careers in government or government-related fields. Graduates of the programme receive a twenty-course B.A. in Administration.

The programme combines eight four-month terms of study at Scarborough College with five terms of work experience. The work terms are spent in government or government-related jobs. Students proceed to their first work-term placement after completion of either two or three study terms.

The study component consists of twelve and one-half required courses and seven and one-half optional courses. The required courses are:

- Commerce - two full course equivalents
  - COMM31Y - Financial accounting
  - COMM31Z - Management accounting
  - ECON31Y - Economic theory I
  - ECON31Z - Economic theory II
  - ECON31S - Quantitative methods in economics
  - ECON31C - Economic policy
  - ECON31E - National income and the national economy
  - ECON31T - Economic analysis of the Public sector: taxation
  - ECON31T - Economic analysis of the Public sector: expenditures

- Humanities: Four full course equivalents
  - CSPA45Y - Introduction to computing
  - CSPA45Z - Computer programming
  - POLA31Y - Canadian government and politics
  - POLA31S - Canadian public administration
  - POLS31T - Intergovernmental relations
  - POLS31Z - Public policy making
  - POLS31Y - Canadian constitutional law
  - POLS31S - Public policies in Canada
  - POLS31Y - Urban Politics
  - POLS31Z - Government and politics in Ontario

- Sociology: One full course
  - JCS91Y - Power and organization

* Students are advised that a working knowledge of French is strongly recommended in any training programme for the Civil Service.

Work-term placements are arranged by the programme's Co-ordinator. Satisfactory performance during the work-term assignments is a requirement for continuation in the programme.

Further information may be obtained from Student Services (24-251317) or the Co-ordinator of the Programme in Administration (24-251317).
Development Studies

Supervisor of Studies: K.R.S. Sandbrook

The systematic study of development is a fairly recent phenomenon, stimulated by the decline of formal colonialism since the end of World War II. The immense problems confronting newly-independent countries have spurred many sorts of scholarly investigation. Economists investigate patterns and means of economic development in order to discover how stagnant economies might attain self-sustaining growth. Sociologists and anthropologists study, among other things, processes of adaptation and resistance to new ways of life. Political scientists seek to uncover the effects of existing structures of domination and to suggest solutions to the crisis of national identity and political legitimacy. Many of the traditional disciplines, however, are ill-equipped to address such questions.

Historians tackle such questions as the meaning and heritage of Western imperialism in the underdeveloped areas. The study of development is not, however, restricted solely to third-world countries. Some scholars have investigated the generic problems of development within backward or stagnant areas of so-called "developed" countries of the West as well.

Since the economic, social, cultural and political dimensions of underdevelopment are intricately interconnected, scholars with an interest in development have been forced to admit the irrelevance of traditional disciplinary boundaries. As a consequence, development studies have emerged as an area of convergence of the subject matter of various social sciences and history. Economists, for instance now generally concede that the possibilities for economic development cannot be fully assessed in the absence of knowledge about the structure of power. Political scientists, in seeking such knowledge, themselves acknowledge that many of the causes of political change lie in the economic sphere. Students enrolling in some of the courses listed below will thus frequently find themselves studying similar problems in different parts of the world or different facets of the same generic problems. Many of the courses are complementary and should provide the interested student with a broad perspective on some of the most pressing problems of our age.

Development Studies is best regarded as a subsidiary interest for students whose primary interest lies in one or more of the Social Sciences or History. Anyone wishing to undertake a programme in Development Studies should register in at least five of the following courses:

ANTH 6041 - The Americas: An Anthropological Perspective
ANTH 605S - Anthropology of Development (not offered 1978-79)
ANTH 6102 - Cultural Sociology
ANTH 6105 - Introduction to Economic Anthropology
ANTH 6109 - Introduction to Political Anthropology
ECON 6403 - Economic Development
HIS 1276 - Frontier Communities in the British Empire and Commonwealth
HIS 1278 - British Imperialism in India
POLA 1276 - Politics and Society in Independent Africa
POLA 1277 - The Chinese Political System (not offered 1978-79)
POLA 1278 - Politics and Government in India (not offered 1978-79)
POLA 1287 - Politics of the Third World
POLA 1289 - Politics and Society in Contemporary Japan
POLA 128F - Political Economy of Third-World Urban Poverty (not offered 1978-79)
POLA 128G - Multinational Corporations and Underdevelopment
SOC 1205 - Comparative Social Structure
SOC 1215 - Social Change
SOC 1225 - Comparative Race Relations
SOC 1235 - Sociology of Urban Growth
MAJOR PROGRAMME IN DRAMA

Supervisor of Studies: M.O. Schonberg

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

The following five courses comprise the core of the programme:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DRAM 101</td>
<td>Drama Workshop and Seminar</td>
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<tr>
<td>DRAM 201</td>
<td>The History of Theatre I</td>
</tr>
<tr>
<td>DRAM 202</td>
<td>History of Theatre II</td>
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<tr>
<td>ENGL 111</td>
<td>Varieties of Drama</td>
</tr>
<tr>
<td>HIST 111</td>
<td>Modern Drama</td>
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In addition, the student must take at least one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DRAM 301</td>
<td>Advanced Practical Workshop and Elements of Directing</td>
</tr>
<tr>
<td>DRAM 302</td>
<td>Individual Studies in French Drama</td>
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<tr>
<td>DRAM 303</td>
<td>Individual Studies in German Drama</td>
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<tr>
<td>DRAM 304</td>
<td>Individual Studies in Italian Drama</td>
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<td>DRAM 305</td>
<td>Individual Studies in Russian Drama</td>
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<tr>
<td>DRAM 306</td>
<td>Individual Studies in Spanish Drama</td>
</tr>
<tr>
<td>DRAM 308</td>
<td>Directed Reading Courses</td>
</tr>
</tbody>
</table>

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

The remaining four or more courses may be chosen from the following:

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>GRMN 201</td>
<td>Greek and Roman Tragedy</td>
</tr>
<tr>
<td>DRAM 102</td>
<td>The Directors' Theatre</td>
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<tr>
<td>DRAM 103</td>
<td>The Art and Nature of Comedy</td>
</tr>
<tr>
<td>DRAM 105</td>
<td>The Theory and Practice of Improvisational Theatre</td>
</tr>
<tr>
<td>ENGL 107</td>
<td>The 17th Century</td>
</tr>
<tr>
<td>ENGL 219</td>
<td>Techniques of Playwriting and Analysis</td>
</tr>
<tr>
<td>ENGL 220</td>
<td>English Poetry and Drama 1660 to 1800</td>
</tr>
<tr>
<td>HIST 120</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>HIST 122</td>
<td>English Drama to 1642</td>
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<tr>
<td>HIST 123</td>
<td>Drama in English Canada - 1920-1970</td>
</tr>
<tr>
<td>FREN 220</td>
<td>French Drama of the Eighteenth Century</td>
</tr>
<tr>
<td>FREN 225</td>
<td>French Theatre of the Early Modern Period</td>
</tr>
<tr>
<td>FREN 228</td>
<td>Contemporary French Theatre, The Theatre and the Abundant Stage</td>
</tr>
<tr>
<td>FREN 229</td>
<td>The Theatre of French Canada</td>
</tr>
<tr>
<td>FREN 230</td>
<td>The Playwrights of the Golden Age</td>
</tr>
<tr>
<td>GERW 241</td>
<td>The Development of German Drama (in translation)</td>
</tr>
<tr>
<td>GERW 242</td>
<td>The Nineteenth Century Drama</td>
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<tr>
<td>GERW 243</td>
<td>Nineteenth Century Drama</td>
</tr>
<tr>
<td>ITAL 124</td>
<td>The Italian Theatre of His Time</td>
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<tr>
<td>ITAL 125</td>
<td>Italian Theatre of the 17th to 18th Century</td>
</tr>
<tr>
<td>ITAL 126</td>
<td>Introduction to Cinema</td>
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<tr>
<td>SPAN 121</td>
<td>Spanish Drama</td>
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</tbody>
</table>

DRAM 304 The History of Theatre II

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

Instructor: L.L. Browne  Session: Winter Day

Objectives: To introduce the students to the practical elements of the theatre.

Content: In the workshops, the student will study the basics of acting (voice, movement, building a character etc.), and be introduced to such technical skills as lighting, sound, make-up, set-construction etc. Audio/Visual equipment is used extensively throughout the course.

Teaching Method: Three 2-hour workshops plus rehearsal times as necessary, per week.

Bibliography: Gassner, John. Producing the Play (published by Glencoe). Selected play texts will be announced.

Evaluation: In this course the students are not encouraged to compete against one another but rather to cooperate. Consequently emphasis is placed on participation and careful attendance and concentration.

Careful preparation for each of the workshops and seminars is essential, and students are evaluated continuously. The assignments are directed towards acquisition of skills and towards the stimulation of individual and group creativity.

DRAM 305 The History of Theatre II

Course description: A study of the History of the Theatre in the 18th and 19th Centuries.

Instructor: M.O. Schonberg  Session: Winter Day

Content: The study of the non-literate aspects of modern theatre in Europe and North America in the present historical and socio-political context. Major topics of concentration will deal with the following: Greek and Roman Theatre; Elizabethan Masque; Theodoric's Melodrama; The Advent of Realism; The Naturalistic Theatre; The Symbolist Theatre; 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.

Teaching Method: There will be two 1-hour classes and a 1-hour seminar.

Bibliography: Oscar Brockett: History of Theatre, Third Edition; Other texts will be announced.

Evaluation: Class Tests, 2 Term Papers.

DRAM 306 The Theory and Practice of Improvisational Theatre: The Commedia Dell'Arte (See Summer Arts Programmes)

JDR 101 Introduction to Cinema (See listing under section for Joint Courses)
DRACILY
Advanced Practical Workshop and Elements of Directing

Prerequisite: DRAMA1

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

Instructor: M. Schonberg
Session: Winter Day

Content: Advanced exercises in acting skills, monologues, and productions.

Teaching Method: A minimum of three hours weekly in formal groups as well as participation in rehearsals.

Bibliography: Curtis, Canfield The Craft of Play Directing, published by Holt, Rinehart and Winston. Further readings will be announced.

Evaluation: to be announced later.

DRACILY
Individual Studies in German Theatre and Drama in Translation

Prerequisite: Same as for DRACILY

Course description: Individuals will study under the supervision of members of the German section.

Instructor(s): Member of German Staff
Session(s): Winter Day

Content: This will be arranged between the instructors in the specific courses and the individual students.

Teaching Method: Individual consultations between the instructor and the student.

Bibliography: To be arranged.

Evaluation: to be announced later.

Interested students should contact Mr. Schonberg, Discipline Representative for Drama.

DRACILY
Individual Studies in Italian Theatre and Drama in Translation

Prerequisite: Same as for DRACILY

Course description: Individuals will study under the supervision of members of the Italian section.

Instructor(s): Member of Italian Staff
Session(s): Winter Day

Content: This will be arranged between the instructors in the specific courses and the individual students.

Teaching Method: Individual consultations between the instructor and the student.

Bibliography: To be arranged.

Evaluation: to be announced later.

Interested students should contact Mr. Schonberg, Discipline Representative for Drama.
DRAC10Y  Individual Studies in Russian Theatre and Drama in Translation

Prerequisites:  Two full course equivalents in Drama or one full course equivalent in Drama and one in Russian literature. This course is intended for students majoring in Drama who are not sufficiently fluent in Russian to read the works in the original language. Permission of Drama Co-coordinator required.

Course Description: Individuals will study under the supervision of members of the Russian section.

Instructor(s): Members of the Russian Staff

Contact: This will be arranged between the instructors in the specific courses and the individual students.

Teaching Methods: Individual consultations between the instructor and the student.

Bibliography: To be arranged.

Evaluation: To be announced later.

Interested students should contact Mr. M. Schoenberg, Discipline Representative for Drama.

DRAC10Y  Individual Studies in Spanish Theatre in Translation

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

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

Instructor: Members of the Spanish Staff

Contact: This will be arranged between the instructors in specific courses and the individual students.

Teaching Methods: Individual consultations between the instructors and the students.

Bibliography: To be arranged.

Evaluation: To be announced later.

Interested students should contact M. Schoenberg, Discipline Representative for Drama.

DRAC20Y-24Y  Supervised Reading Courses

Prerequisites: One 3-level course in Drama, and permission of Instructor.

Course Description: This is an advanced reading course for drama students. The student wishing to take this course should consult with M. Schoenberg, co-ordinator of drama program, who will arrange an on-operation with the student a reading list and set the specific requirement for the course.

Instructor(s): M. Schoenberg

Session(s): Winter Day

Teaching Methods: Individual consultations between the instructor and the students.

Bibliography: To be arranged

Evaluation: To be announced later.

Interested students should contact Professor M. Schoenberg.

Courses not offered in 1978-79

DRAS02Y  The Directors' Theatre

DRAS03Y  The History of Theatre I

DRAS04Y  The Art and Nature of Comedy

JHDC02Y  Technique of Playwriting and Analysis

Prerequisites: Normally two courses in Drama; permission of Instructor
## Major Program in Economics

**Supervisor of Studies:** D.B. Mogridge

The major program in Economics requires heavy concentration in the discipline. A major program may not be applicable for all students. Students who are interested in Economics and other areas as well should refer to the general advice given with the Economics course descriptions.

The program is designed for students considering employment in fields where a knowledge of economic theory and a modest ability to do work but it does provide the basic quantitative and theoretical skills which are essential for decision-making in business and government.

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

- ECO531Y
- ECO540Y or ECO545Y
- ECO552Y or ECO555Y
- ECO540Y and ECO550Y
- ECO545Y and ECO546Y
- ECO540Y and ECO551Y
- ECO540Y or ECO545Y or ECO550Y or ECO555Y
- ECO560Y or ECO561Y or ECO562Y or ECO565Y

Four C-level courses in Economics, one of which must be ECO513Y or ECO514Y and one of which must be taken from the "Workshop in Economics."

Students are urged to take ECO540Y, ECO545Y or ECO546Y and either ECO540Y or ECO545Y or ECO555Y in their first year of full-time study (or equivalent). The courses in Mathematics, particularly MAT527Y or MAT555Y, are recommended as preliminary to ECO513Y, which is an important course in the second year of full-time study (or equivalent). ECO511Y/8 should be included in the first ten courses taken.

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

### Major Program in Economics and Commerce

Please refer to "Commerce and Economics"
ECO301V Introduction to Economics
Course description: A study of economic theory and its application to contemporary Canadian economic problems. Problems discussed will include: unemployment, inflation, pollution, poverty, monopoly.

Instructors: Staff
Session: Winter Day
Winter Evening, Summer Evening

Content: The first term covers Microeconomics, the study of individual markets (for particular goods or services). We then proceed to consider how markets function in the presence of perfect competition, monopoly, and imperfect competition. Labour markets and unions are examined. The rationale for government intervention into individual markets is considered. Lastly, issues of poverty and the distribution of income are examined. The second term covers Macroeconomics, the study of the economy as a unit. We study national income accounting, how the actual level of either GNP or employment is determined. The influence of fiscal policies (changes in government spending or taxes) and of monetary policies on depressed economies is analyzed. Inflation and its control is discussed throughout as a related problem.

Teaching Method: 3 one-hour lectures each week plus tutorials.

Evaluation: Evaluation will be a mixture of final examination, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO3001F Price Theory I
Prerequisite: ECO301
Course description: Intermediate level development of the principles of microeconomic theory. The primary emphasis is on static partial equilibrium analysis. Topics include theory of the consumer, theory of production, theory of the firm.

Instructor: Staff
Session: Winter Day
Winter Evening, Summer Day

Content: Basic tools of microeconomic analysis. Material in this course is the basis for most other courses in economics. Topics include consumer demand analysis, production theory, theory of the firm.

Teaching Method: Three hours per week.

Evaluation: Evaluation will be a mixture of final examination, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.
ECB8328

Price Theory II

Prerequisite: ECB001

Course Description: A continuing study of price theory and the role of imperfect competition, market imperfections, factor prices, general equilibrium analysis and welfare economics.

Instructor: Staff

Sessions: Winter Day

Content: Continuation of ECB001, covering market structure, welfare economics, problems of monopoly, market failure and so on.

Teaching Method: Three hours per week.

Evaluation: Evaluation will be a mixture of final examination, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECB005F

National Income and the National Economy

Prerequisite: ECB001

Course Description: An exposition of macroeconomic theory with detailed discussion of the theory of output, employment, and the price level; and of techniques for achieving economic stability. There is a section on the nature and causes of business cycles and the interrelationship between national income and the domestic price level and employment.

Instructor: Staff

Sessions: Winter Day

Content: Among other topics: fiscal policy, interest rate theory, monetary models, prices and employment, inflation, international finance, economic growth.

Teaching Method: 3 hours of class time per week.

Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECB8968

Macroeconomic Policy

Prerequisite: ECB005

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

Instructor: Staff

Sessions: Winter Day

Content: Monetary and fiscal policy in an open economy; inflation and unemployment; wage and price controls; stabilization policies; debt management policies; exchange rate policies and the balance of payments.

Teaching Method: 3 hours per week.

Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECB0946

Money and Banking

Prerequisite: ECB001, ECB003

Course Description: The focus will be on analysis of monetary theory and monetary policy.

Instructor: T.B.A.

Sessions: Winter Day

Content: Topics include financial markets and instruments, demand for money, theory of monetary policy, determinants of the money supply, competition and efficiency in the financial sector.

Teaching Method: Two lectures per week.

Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.
Prerequisite: ECOB11
Course description: A continuation of ECOB11 for students interested in applications of quantitative methods. Topics to be covered are in applications of quantitative methods. Topics to be covered are regression analysis and input-output tables. Calculus is strongly recommended.
Instructor: Staff
Session: Winter Day
Cost: See course description above.
Teaching Method: Lectures, tutorials.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

Prerequisite: ECOB11; CRIM 101
Course description: A continuation of ECOB11 for students interested in applications of quantitative methods. Topics to be covered are regression analysis and input-output tables. Calculus is strongly recommended.
Instructor: Staff
Session: Winter Day
Cost: See course description above.
Teaching Method: Lectures, tutorials.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

Prerequisite: ECOB11
Course description: A study of the classical literature of Political Economy, especially selections from the works of Adam Smith, Malthus, Ricardo, J.S. Mill.
Instructor: V.W. Bladen
Session: Winter Day
Content: Most graduate schools require students to have studied or to study the history of economic thought. Not generally accepted as an undergraduate course. If both parts are taken they would generally be accepted for this purpose: it is unlikely that a half course would be acceptable or a grade less than B.
Teaching Method: Two informal lecture periods per week.
Evaluation: Two short essays (1200 words) are required plus a final exam for each course. The exam is based on the final exam, modified by reference to the essays. A student may learn much from the criticism of two poor essays and end up with a high final mark. But as in any subject in which participation in class play may prevent injustice if the student is unable to demonstrate his quality in that particular examination. The examination is not intended to find out what the student does not know, or has not done, but to find out what he can do with what he does know.

Prerequisite: ECOB11; CRIM 101
Course description: A study of classical literature of political economy, especially selections from the works of Marx, Sevres, Marshall and Keynes.
Instructor: V.W. Bladen
Session: Winter Day
Content: See ECOB20F
Teaching Method: See ECOB20F.
Evaluation: See ECOB20F.

Prerequisite: ECOB11
Course description: This course is concerned with the revenue side of government finance. In particular, it deals with existing tax systems, including the factors that affect their design. Some attention will also be given to the use of government fiscal policy to regulate the level of economic activity.
Instructor: M.W. Rosovetsky
Session: Winter Day
Content: The approach is partly analytical and partly descriptive. General subjects covered include the Canadian background, principles of taxation, income support programs and stabilization policy. Specific taxes on income, consumption and wealth will be analyzed in detail.
Teaching Method: Three hours of lectures a week.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.
ECOS107

Economics of the Public Sector: Expenditures

Prerequisite: ECOS01
Course description: A study of resource allocation in relation to the public sector, with emphasis and decision criteria for public expenses. The distinction between public and private goods is central to the course. Special topics discussed include: pollution, the economics of education, fiscal federalism, urban problems.
Instructor: M.W. Recovery Session: Winter Day
Content: The dimensions, growth and composition of government budgets are described. The rationale for government expenditures and criteria for evaluating public projects are then subjected to economic analysis. Illustration is made from contemporary issues of Canadian public policy.
Teaching Method: Three hours of lectures a week.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECOS415

Industrial Organisation

Prerequisite: ECOS01
Course description: The economics of the firm in a market environment. The aim is to study business behaviour and public policy with respect to advertising, concentration, competition, rate-setting, etc.
Instructor: T.B.A. Session: Winter Day
Content: A three-fold approach is taken using theoretical models, institutional descriptions and the results of empirical investigation to demonstrate how variations in the market environment affect the performance of industries.
Teaching Method: Two hours of lectures a week.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECOS457

Urban Economics

Prerequisite: ECOS01
Course description: Economic analysis is applied to contemporary urban problems. Topics discussed include: housing and urban renewal, poverty and income maintenance, education, metropolitan organization of urban areas.
Instructor: M. Krashinski Session: Winter Day
Content: This is a course in economic theory and its applications. Articles discuss the theory of urban economics and draw examples from the U.S., Canada, and occasionally other countries.
Teaching Method: Lectures and discussions.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECOS455

Poverty and Income Distribution

Prerequisite: ECOS01
Course description: A study of alternative theories of income distribution with application to poverty and income distribution in Canada. Includes an analysis of the impact of alternative income maintenance schemes such as welfare, negative income taxes, wage subsidies, unemployment insurance, minimum wages, human resource development and public expenditures, taxes and subsidies, as well as the impact of aggregate demand policies on the distribution of income.
Instructor: M. Guradene Session: Winter Day
Content: Income distribution as a goal, types of income distribution, measuring poverty and income inequality, time pattern of poverty and income distribution, international comparisons of income distribution, characteristics of the poor, government policies that affect income distribution, evaluating income redistribution policies, expansionary aggregate demand: inflation, unemployment and the poor, wage-price guidelines and income distribution, alternative theories of income determination and distribution, work incentive effects of alternative income maintenance programs.
Teaching Method: Basically a lecture course due to the large class size. 3 hours of lectures per week. Most of the analytical and theoretical work will be covered in lectures and some readings.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.
ECO381Y | North American Economic History

**Prerequisite:** ECO301

**Course Description:** 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 staples, industries, and urbanization, and the relationships of the state of economic change in the two countries.

**Instructor:** D.R. Moggridge  
**Session:** Winter Day

**Content:** After a discussion of the factors behind the expansion of Europe's North America, the course develops by looking at economic activity and change on a continental and a national basis within the following periods: origins to 1660, 1660-1790, 1860-1914, 1914-1970. Within each period, the emphasis is less on the provision of general background information available in the texts, than on the discussion of particular topics.

**Teaching Method:** Two lectures per week.

**Evaluation:** Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO382Y | European Economic History

**Prerequisite:** ECO301

**Course Description:** A study of the emergence of industrial society in Europe since the Middle Ages with some emphasis on the comparative experience of Britain and other European countries and the growth of economic nationalism. The course will consider the history of technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.

**Instructor:** J.S. Cohen  
**Session:** Winter Day

**Content:** Among other topics, enclosure and the rise of capitalist agriculture; mercantilism and commercial conflicts in 17th century Europe; the industrial revolution and rise of factories; labour movements; imperialism: finance and industrialization; agrarian Europe; late Victorian recession.

**Teaching Method:** Lectures and discussion.

**Evaluation:** Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO317P | The Economics of Karl Marx

**Prerequisite:** ECO301

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

**Instructor:** J.S. Cohen  
**Session:** Winter Day

**Content:** Course will cover the labour theory of value, exploitation, problems of realization, the falling rate of profit, the transformation problem and so on.

**Teaching Method:** Lecture and discussion.

**Evaluation:** Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO311P | Supervised Reading

**Prerequisite:** Permission of instructor

**Instructor:** Faculty in Economics  
**Session:** Winter Day

**Content:** To be worked out by the student and his faculty supervisor.

**Teaching Method:** Tutorials set up to meet every other week or so to discuss readings and the student's essays.

**Evaluation:** Generally a series of essays.

ECO312P | Supervised Reading

**Prerequisite:** Permission of Instructor

**Instructor:** Faculty in Economics  
**Session:** Winter Day

**Content:** To be worked out by the student and his faculty supervisor.

**Teaching Method:** Tutorials set up to meet every other week or so to discuss readings and the student's essays.

**Evaluation:** Generally a series of essays.
ECO115F Advanced Microeconomic Theory
Prerequisites: ECON02 or ECON05; ECON11; MATA22 or MATA26 or MATA55
Course description: An upper level extension of the ideas studied in ECON02. The course offers a more sophisticated treatment of the topics as equilibrium, welfare economics, theories of the firm, linear programming, income distribution, risk and uncertainty.
Instructor: J.L. Scadding
Session: Winter Day
Teaching Method: Lectures and class discussion.
Evaluation: Evaluation will be a mixture of final examination, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO14S Advanced Macroeconomic Theory
Prerequisites: ECON02; ECON05 or ECON10; ECON11; MATA22 or MATA26 or MATA55
Course description: Post-Keynesian developments in macroeconomic (including monetary) theory; empirical testing of Keynesian and post-Keynesian macroeconomic theories and the uses of macroeconomic models.
Instructor: R. Howson
Session: Winter Day
Teaching Method: Lectures and class discussion.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO115F and ECO116S Topics in Advanced Economic Theory
Prerequisites: ECO113 or ECO114 or permission of instructor
Course description: These courses are devoted to some aspect of economic theory not usually covered at the undergraduate level, or to recent work extending or revising receiving theory, or to alternatives to orthodox economic theory.
Instructor: T.B.A.
ECO146 Winter Day
Evaluation: Evaluation will be a mixture of term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.

ECO175Y Public Decision Making
Prerequisites: ECON05
Course description: The course examines the processes and perspectives that influence public decision making. The course uses the methods of the social sciences to study these processes, particularly in the area of health. The course introduces students to the use of statistical methods and to the application of economic models in decision making.
Instructor: S. Wise
Session: Winter 1991
Teaching Method: Seminar/group discussion - 2 hours once a week.
Evaluation: Evaluation will be a mixture of final examinations, term tests, papers and assignments, the details to be announced by the instructor at the beginning of the course.
MAJOR PROGRAMME IN ENGLISH

Supervisor of Studies: J. Ray

The student majoring in English must take at least ten and not more than fifteen courses in English in a twenty-course degree programme. One course should be taken from each of the following categories:

(1) ENG 340 or ENG 342
(2) ENG 305 or ENG 310
(3) ENG 302 or ENG 311 or ENG 312
(4) ENG 306 or ENG 307 or ENG 313
(5) ENG 309 or ENG 314 or ENG 320
(6) ENG 315 or ENG 316 or ENG 321 or ENG 322

Special courses at 300, 400, 600 level are acceptable provided they are taken with a major advisor and are not part of the twenty-course programme, including one course from each of the following categories:

(1) ENG 340 or ENG 342
(2) ENG 305 or ENG 310
(3) ENG 302 or ENG 311 or ENG 312
(4) ENG 306 or ENG 307 or ENG 313
(5) ENG 309 or ENG 314 or ENG 320
(6) ENG 315 or ENG 316 or ENG 321 or ENG 322

English Literature: Forms and Approaches

Course Description: An introduction to the study of literature. Emphasis is placed upon the understanding and use of critical terminology.

Instructor: The Staff in English

Winter Term 2020

Course Chairman: E.P. Vicari

Winter Evening

Course Content: A variety of works will be read representing the major kinds of literary art. The major groups of drama, poetry, novel and novel inquiry will be directed into the nature of art and of imaginative literature as a form of art, and into the ways in which such art may be analysed and critically discussed. There will also be instruction in the writing of critical essays and in using the basic tools of literary scholarship.

Teaching Methods: These may vary from section to section, but will include oral presentation. Regular attendance is required.

Evaluation: Written essays (a total of 7,000 - 10,000 words) participation in discussion, 3-hour final examination.

MAJOR PROGRAMME IN ENGLISH AND CLASSICS

Supervisor of Studies: J. Ray

Twelve courses made up in the following manner:

A. (1) One of: ENG 307: Studies in Middle English and Literature
ENG 308: Chaucer
ENG 309: Verse and Poetry of the English Renaissance
ENG 310: Shakespeare
ENG 311: English Drama to 1642
(2) One of: ENG 312: Studies in Eighteenth Century Literature
ENG 313: Restoration and Eighteenth Century Literature
(3) One of: ENG 314: Romantic Literature
ENG 315: Modern Poetry
ENG 316: Studies in Twentieth Century Literature
(4) One of: ENG 320: Axiomatic Literature
ENG 321: Modern Poetry
ENG 322: Studies in Twentieth Century Literature

B. Four courses in Classical Languages, at least three at B-Level
C. (1) One of: ENG 317: A seminar in Literary Theory and Practice
HUM 307: Orpheus
(2) One of: ENG 324: Senior Essay
ENG 324: Independent Studies

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

D. Two further courses to be chosen from:

Courses offered in English, Latin, Greek and Classical

ENG 325: Greek and Roman Epic
ENG 326: Greek and Roman Tragedy
ENG 327: The Art and Nature of Comedy
ENG 328: The Odyssey Factor
ENG 202Y
Chaucer

Prerequisites: One course in English

Course Description: A study of most of the Canterbury Tales. The emphasis is on the Legend of Good Women, Troilus and Criseyde, and The Franklin's Tale. In translation. Part of the course will be devoted to Middle English language and the development of English. Texts: F. M. Bailey, ed. The Works of Chaucer. Wright, An Elementary

Instructor: E. P. Viscari
Session: Winter Day

Contents: Chaucer's poems are studied mainly as artistic productions. The texts will be read in Middle English and some language study is involved.

Teaching Method: Lecture-discussions and seminars.

Evaluation:
1. 750-word essays
2. oral presentations or the equivalent
3. 1-10 hr. translation and language tests

ENG 2024Y
English Poetry, Prose and Drama 1660-1800

Prerequisites: One course in English

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

Instructor: H. Jackson
Session: Winter Day

Teaching Method: Discussion, with introductory monographs.

StartTime: Wednesday, Thursday, and Friday, 9:00-11:00

Required Text: Williams, Russell, and Waring, eds., Eighteenth Century English Literature.

Additional Reading: Additional reading to be assigned.

Evaluation: One or two short essays and one longer essay each term; Christmas Test; final exam.
ENGBRO Tomic Poetry

Prerequisite: One course in English

Course description: The poetry of Tennyson, Browning, Arnold, and selections from other poets, including Morris, T.S. Eliot, Yeats, Hopkins, and Tilly. Focus on themes of nature, religious, and political contexts.

Instructor: T.B.A. Session: Winter Day

Further information will be available later in 85111A.

ENGBRO Victorian Poetry

Prerequisite: One course in English

Course description: The poetry of Tennyson, Browning, Arnold, and selections from other poets, including Morris, D.G. Rossetti, Swinburne, Hopkins, and Tilly. Focus on themes of nature, religious, and political contexts.

Instructor: T.B.A. Session: Winter Day

Further information will be available later in 85111A.

ENGBRO Canadian Literature in English: An Introduction

Course description: A study of a wide range of Canadian literature, including works by novelists such as Callaghan, Mandamin, Lemarche, Pratt, Mirvish, Arvay, Arwood, playwrights such as Ryan, and other contemporary writers.

Instructor: Dr. J.M.C. Margeson Session: Winter Day

Further information will be available later in 85111A.

ENGBRO American Literature: An Introduction

Course description: A study of at least twelve major works in American literature including the following: Melville, Hemingway, Thoreau, Whitman, The Godfather, Longfellow, and other noted authors. Focus on themes of nature, religion, and political contexts.

Instructor: J. Ray Session: Winter Day

Further information will be available later in 85111A.

ENGBRO Prose and Poetry of the English Renaissance 1500-1660

Prerequisite: One course in English

Course description: This course will explore the diverse styles and themes of the English Renaissance literature, focusing on the work of Shakespeare, Jonson, and other notable figures. Topics include humanism, the rise of nationalism, the rise of the scientific attitude, and the development of prose style and shifts in the purpose and practice of poetry.

Instructor: T.B.A. Session: Winter Day

Further information will be available later in 85111A.
ENGLISH Shakespeare

Course description: A study of at least eleven plays

Instructor: A.G. Patenall
Session: Winter evening

Content: The lectures develop a structural approach to Shakespeare. They do not pretend to offer a comprehensive view of the plays, nor to provide an objective survey of ways in which Shakespeare may be approached. Instead, the lectures will examine the lecturer's own approach. These will be challenged and questioned in seminar.

Teaching Method: Two hours of formal lecture, and one hour of participatory seminar in groups of fifteen.

Bibliography: King Lear; Hamlet; Antony and Cleopatra; Othello and Macbeth; Shakespeare's Sonnets; The Tempest; The Merchant of Venice; As You Like It; Richard III; 1 Henry IV; 2 Henry IV; Henry V; Pygmalion.

Evaluation: 6000 to 7500 words in essays; participation in seminar; two 90 minute tests, one in December and one in April.

ENGLISH Varieties of Drama

Course description: An introduction to a wide range of dramatic forms. By Christmas the student will be observing and discussing, in reasonably sophisticated terms, the modes of tragedy and comedy and their variants. By Spring the discussion will have moved through social drama, to era-comedy, old and new.

Instructor: Karlheinz Schell
Session: Winter Day

Contents: Sophocles, Oedipus Rex; Aristophanes, Acharnians; Aristophanes, Birds; Shakespeare, King Lear; Ibsen, A Doll's House; Racine, Bajazet; Moliere, The Imaginary Invalid; Shakespeare, Romeo and Juliet; Wilde, Salome; Shavian, The Life of Mr. Duck; Chekhov, Uncle Vanya/ The Seagull; Shaw, Major Barbara; The Life of Willy Miller, Death of a Salesman; Sartre, The Flaying of the Western World; Beckett, Waiting for Godot; Plater, The Masque. Additional reading: Aristotle, Poetics.

Teaching Method: Two lectures a week; tutorials may be introduced if the student warrants it.

Evaluation: One essay (about 2,000 words) and two tests each term.

ENGLISH English Drama to 1642

Prerequisite: One course in English

Course description: 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.

Instructor: J.N.R. Marpenson
Session: Winter Day

Contents: Main emphasis will lie upon the study of examples of medieval English drama in modernized texts, early comedy and tragedy, especially Marlowe, a selected group of Shakespeare's plays, and the comedies and tragedies of his contemporaries and successors, Ben Jonson, Webster, Middleton, and Ford. There will also be a study of staging techniques from medieval times to the great popular theatres of the Elizabethans and the private theatres of the Jacobean.

Teaching Method and Evaluation: There will be lectures, discussion periods, stay-readings, and if interest warrants, productions of a short play or scenes from plays. Evaluation will be based on 2 major essays, 2 in-class reading tests, and 2 tutorial presentations or participation in readings and productions.

Texts: Shakespeare, Comedy of Errors, Love's Labour Lost, Richard III, Much Ado About Nothing, Measure for Measure, Twelfth Night. Other texts to be announced.

ENGLISH Varieties of Fiction

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

Instructor: R. Crewman
Session: Winter Evening

Further information will be available later in RS11A.

ENGLISH English Poetry

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

Instructor: Alan Thomas
Session: Winter Day

Contents: A variety of poetic forms will be considered including the dramatic monologue, the ballad, the sonnet, the visionary lyric, and the poetry of word and atmosphere. Although study of biographical and historical backgrounds is an aspect of this course, emphasis is upon a close reading of individual poems.

Teaching Method: Seminar discussion.

Evaluation: 7 essays; 2 class tests

Texts: The Norton Anthology of Poetry, Shorter edition (revized); (eds., Allison, Barrow, Blake, Carr, Eisman, English)

Bibliography: Brooks and Warren, Understanding Poetry.
ENCE1046Y Canadian Poetry in English
Prerequisites: One course in English
Course Description: Poems of the nineteenth and twentieth centuries, including: Empson, Yeats, F. S. Scott, A. M. Smith, Birney, Klein, Adamson, Southerden, Purdy, Atwood.
Instructor: TBA
Session: Winter Day
Further information will be available later in R III 11.

ENCE267Y Canadian Fiction in English
Prerequisites: One course in English
Course Description: A study of prose fiction in Canada from its beginning to the present.
Instructor: TBA
Session: Winter Day
Further information will be available later in R III 11.

ENCE271Y Modern Drama
Prerequisites: One course in English
Course Description: A study of developments in English, American, and European drama in the late nineteenth and twentieth century.
Instructor: M. S. Valt
Session: Winter Day
Objectives: An appreciation of the main trends in modern drama and theatre.
Content: This course offers a concentrated study of the principal modern theatre from Ibsen to Pinter. Central to the course is a definition of such terms as realism, expressionism, the theatre of the absurd, epic theatre, etc., as these categories may be usefully applied to the work of major modern playwrights.
Teaching Method: Combined lecture and seminar. Three hours a week.
Bibliography:
Evaluation: Two essays, two end of term tests, one class seminar, one short dramatic dialogue written in the style of one of the playwrights studied.
ENGLISH Modern Poetry

Prerequisite: One course in English

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

Instructor: W.S. Tait  Session: Winter Day

Contact: The poetry of Yeats, Eliot, Frost, W.C. Williams, F.W. Lawrence and others.

Teaching Method: Lecture and discussion.

Evaluation: Short papers on individual poems, a larger essay each term, a half-year and a year's end test administered in class.

ENGLISH Fiction 1900-1950

Prerequisite: One of ENGL04, ENGL14, ENGL16, ENGL17, ENGL19

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

Instructor: H. Thail  Session: Winter Day

Contact: This course explores the parallel development of new concepts of philosophy and psychology in the twentieth century and new ways of writing novels that reflect such concepts. The analysis of specific novels is directed towards a consideration of several trends in the development of novelistic techniques: the emergence of stream-of-consciousness and imagistic structures, subjective time, limited and multiple narrators, and character conceived in terms of myth or of unconscious impulses. The study of such techniques should illuminate the relationship between how a novelist sees his world and how he constructs his fictions.

Teaching Method: Combined lecture and discussion.

Evaluation: Two major essays (2,500 words), several shorter assignments, and a final examination. Class participation is important and will be graded accordingly.

Reading List: Students are asked to read as many of the texts as possible before term.

James, The Ambassadors (Riverside) Ford, The Good Soldier (Vintage) Joyce, A Portrait... (Penguin) Huxley, Point Counter Point (Peng.) Lawrence, Sons and Lovers (Penguin) Woolf, The Waves (Penguin) Conrad, Lord Jim (Riverside) Faulkner, Absalom, Absalom (Mod.) A few more texts to be chosen.

ENGLISH Studies in Renaissance Literature

Prerequisite: Normally "A" standing in ENGL49 and in two other courses in English.

Course Description: An advanced seminar in the poetry, prose and drama of the English Renaissance. Concentrated study of Spenser and Milton: additional study of Jonson and Donne. Limited enrollment: 15

Instructor: B.P. Visoci  Session: Winter Day

Contact: Almost all of Spenser's and Milton's poetry and selections from Milton's prose will be read in the context of Renaissance ideas and literary theory. The Apology for Poetry by Sir Philip Sidney will serve as a reference text.

Evaluation: Two or three 20-minute oral reports and a 3,750-word essay each term. Contribution to seminar discussion will "count".


ENGLISH Studies in Nineteenth Century Literature

Prerequisite: Three English courses, one of which must be ENGL50 or 517

Course Description: Detailed courses on Tennyson, Arnold, Dickens and Hardy.

Instructor: M. Creelman  Session: Winter Day

Further information will be available later in ENGL49A.
NEC195 Senior Essay

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

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

Content: To this choose the student writes a substantial essay on a literature subject under the supervision of a member of staff. It is the responsibility of the student to locate his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadline should be observed:

By the last day of Term the previous Spring a brief statement of the area of the project, signed by the supervisor is to be sent to Professor John Kay.

By November 15th a more specific statement of the project is to be sent to Professor Kay including the exact title of the proposed study, and a short description of its subject and method. After the topic has been approved by the Department, a second reader will be appointed.

ENGLC15 English in the United States

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

Course description: English in the United States as a full course in the student's program. It will take the form of a reading course under the direction of an advisor.

The advisor will design his course, in consultation with his advisor, with the following objectives in view: To foster the critical analysis of poetry and prose, and to define for himself a Special Area for intensive study. In order to facilitate the identification of areas where intensive reading may be required and to provide for special study, a checklist of major authors is made available to the student in the February of their third year. It is not assumed that the student, when presents himself for examination, will have achieved complete mastery of all the authors mentioned. In the other hand, the list, despite its apparent length, is selective rather than exhaustive and is therefore not intended to be an exhaustive prescribed reading. The student in his fourth year will already be familiar with most of the authors through his work in other courses, and the true he may choose to do his own reading and discussion with his advisor.

Standing in English C15 will be determined by three examinations, each of which will be of equal weight with the others.

For information concerning examinations and reading lists see Prof. John Kay.

ENGL318 The Contemporary Novel in America

Prerequisites: Normally three English courses, including one course in American literature. Limited enrollment: 15.

Course description: A study of developments in the American novel since 1930. Six novels will be selected from the following: Barth, McCarthy, Bellow, Bresslinger, Cooper, Dumas, Mann, Gardner, Salinger, Oates, Pynchon, Roth, Thourow, Welty, Woolf.

Instructor: J. Kay

Session: Winter Day

Objectives: To explore the great variety of attitudes to the novel in America in the last thirty years. The study will be primarily interpretative in nature, but some attention will be given to the influence of historical events and to cultural questions such as the concept of counter-culture and adversity culture.

Teaching method: Seminar discussion.

Evaluation: One major class presentation, class participation, and a term test.

ENGL375 William Blake

Prerequisites: Normally three ENG courses, including one of ENG305, ENGL302

Course description: A study of the illustrated texts of Blake's works from Songs of Innocence to Jerusalem. Limited enrollment: 15.

Instructor: J. Kay

Session: Winter Day

Objectives: To study the major poetry of Blake in the context of the illustrated texts, to learn how to read Blake's pictorial language.

Teaching method: Seminar discussion.

Evaluation: One major class presentation, class participation, and a term test.
Fine Art

Discipline Representative: M. Gevers

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

The courses offered in Art History deal with the development of the arts in the West from classical times to the present day. The Studio programme provides opportunities for encounter with materials and methods, form, and concepts of the visual arts.

Students are encouraged to augment their Art History and Studio courses with courses involving the study of History, classical and modern literatures, literary criticism, sensation and perception, Anthropology, Archaeology and Aesthetics.

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

Students in Studio courses will be required to meet part of the cost of materials; students will be required to pay $25 - $35 for materials for each half course.

Students interested in Fine Art should also refer to:

GREE11S Homer: Odyssey
HUM402 The European World: An Introduction to History
HUM507 Orpheus: The Quest of Beauty
HUM513 The Age of Particles
HUM522 The Age of Augustus
HUM551 The Age of Rome
HUM577 Introduction to Cinema
PRL807 Philosophy and Art

Major Programme in Fine Art

Supervisor of Studies: M. Gevers

Two major programmes are offered within Fine Art: one in Art History, the other combining Art History and Studio Courses.

Art History

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

(1) PARA105
(2) One full-course equivalent chosen from the Classical and Medieval periods.
(3) Two full-course equivalents chosen from the Renaissance or Baroque periods.
(4) Two full-course equivalents chosen from Modern and Canadian Art.
(5) Two full-course equivalent C-level courses in Art History.
(6) Two further full-course equivalents: (1) a second course from the Classical and Medieval Periods, (2) a course chosen from either Art History or Studio (PARA107 and PARA110) or one from another discipline with direct relevance to Fine Art. Permission for this course in another discipline must be obtained from the Supervisor of Studies.

Fine Art

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

(1) PARA105
(2) One full-course equivalent chosen from the Classical and Medieval periods.
(3) One full-course equivalent chosen from the Renaissance or Baroque periods.
(4) Two full-course equivalents chosen from Modern and Canadian Art.
(5) Five full Studio courses (or equivalent) to be chosen in consultation with the studio instructor.

Note: Students seeking 'A' certification in the Faculty of Education require at least nine Fine Art courses, with a balance between Studio and Art History courses.)
PARA704 Two and Three Dimensional Design

Prerequisites: (PARA10)

Limited enrolment: Three groups of 20 each

Course Description: PARA70 and PARA71 are introductory to all studio courses. The primary aim is to help students cultivate a familiarity with basic terms, concepts and principles in visual design.

Instructor: J. Campbell  
Section: Winter Day 4 Evening

Objectives: To introduce the student to the basic principles of 2 and 3 dimensional design and to show how these principles are used in both the area of fine art and in the environment.

Content: There will be lectures, films and demonstrations dealing with the formal and technical problems of two and three dimensional design. The students will work in class and also be given assignments related to the in-class work. There will be trips to public and private galleries.

Method: 3 hours per week. Lectures, working demonstrations, group critiques.

Evaluation: Based on both the weekly assignments and in-class work.

PARA715 Colour

Prerequisites: (PARA110)

Limited enrolment: Three groups of 20 each

Course Description: An analysis of the properties, perception and interaction of colour within the context of the fine arts.

Instructor: J. Campbell  
Session: Winter Day 4 evening

Objectives: To introduce the student to the relativity of colour and to show, through in-class work, the methods of controlling colour effects.

Content: There will be lectures, films and demonstrations dealing with the problems of colour. The students will work in class and also be given assignments related to the in-class work. There will be trips to public and private galleries.

Method: 3 hours per week using mixed pigments and coloured papers. Lectures, working demonstrations, group critiques.

Evaluation: Based on both the weekly assignments and work done in class.

PARA719 Art of the First Half of the Nineteenth Century

Prerequisites: PARA40

Course Description: Painting, sculpture and applied arts produced between the revolutions of 1789 and 1848. Particularly the work of J.-J. David, his studio and his pupils will be considered against the background of social and political changes caused by the French Revolution and the Napoleonic Wars.

Instructor: R. Siebelo  
Session: Winter Day

Further information will be available later from Room 65112.

PARA815 Art of the Second Half of the Nineteenth Century

Prerequisites: PARA40

Course Description: This course concerns itself with the art of the second half of the nineteenth century, between the revolution of 1848 and the First World War. This rich period in the arts of the Western world will be considered through its paintings, architecture and sculpture. Special emphasis will be given to such major movements as Impressionism, Symbolism and Cubism.

Instructor: R. Siebelo  
Session: Winter Day

Further information will be available later from Room 65112.
PARS24Y  Medieval Art, IV to XIV Century
Corequisites:  PARS20, recommended course: PARS29
Course Description: A survey of the arts in Europe from the late Roman Empire to the end of the Gothic period. The study will involve consideration of architecture, sculpture, painting, illumination and the minor arts.
Instructor: M. Gervais
Session: Winter Day
Objectives: To teach students to recognize and interpret the basic stylistic, subject matter, iconography and function of medieval art in an historical context.
Context: Early Christian, Byzantine, Byzantine, Romanesque, Gothic.
Teaching Method: One 3-hour lecture plus a 1-hour tutorial weekly. Two long periods, one each semester, will be held in the Royal Ontario Museum. Students will be encouraged to think for themselves and to develop a critical approach towards the subject.
Evaluation: Semester grades are computed from weekly assignments and/or papers and participation in tutorials (1/2); mid-term test (1/3) and end of term exam (1/3). Final grades - on 2 term marks & final exam (1/2)

PARS24Y  Painting in Ancient Egypt, Prehistoric and Classical Greece (Fourth Millennium to end of First Century B.C.)
The early part of the course (prehistoric period) will trace the development of wall painting and painted relief in Ancient Egypt and Greek vase painting. For the later period emphasis will be on Greek vase painting.
Instructor: M. G. Shaw
Session: Winter Day
Context: As the title implies, the course will be dealing with two major periods: the most outstanding paintings of the earlier one (about 3200 B.C.) are found in tombs of Egypt and in houses and palaces of the Mycenaean, Thera, Mycenaean Greece and other sites in Western Asia. Wall paintings of Greece of the prehistoric period are often reflected in copyrighted illustrations in Greek vase painting, and Roman tomb wall paintings and Early Roman paintings and mosaics.
Method of Teaching: Lectures are illustrated by slides, and occasionally by material when such is available, in the R.O.M.
Evaluation: Out of term paper, 1/4 of final grade. One 1-hour examination, 1/4 of final grade. One final examination (2 hours), 1/4 of final grade.

PARS24Y  Art of the Twentieth Century
Corequisites: PARS248
Course Description: An introductory course, one of the options for the programme in Fine Art History as well as studio.
Instructor: TBA
Session: Winter Evening
Further information will be available from Mrs. D. Cooper in B111A.
FARRAH, D. \\
Baroque in Europe, 1600-1750 \\
Prerequisites: FARRAH, FARRAH \\
Course description: A general survey of Baroque and Rococo Art and Architecture in Europe between 1600 and 1750. \\
Instructor: G. Serviati \\
Session: Fall Term Evening \\
FARRAH, D. \\
Spring Term Evening \\
Course Content: (1st part) — Italy and France, 1600 to 1640. The focus will be on major personalities (Bernini, Serpentine, N. Carrier, R. Poussin) and on the evolution of the Classical, the Neoclassic and the Baroque trends. \\
Teaching Method: two one-hour lectures \\
Evaluation: One 1-hour examination \\
Further information on Spring Term Evening course will be available later from 95111A.

FARRAH, D. \\
Introduction to Printmaking \\
Prerequisites: FARRAH, FARRAH \\
Course description: Materials & Methods in edition printing. \\
Instructor: D. Holman \\
Session: Winter Day \\
Objectives: To introduce the student to the art of printmaking through the use of the silk screen medium. To develop the students critical awareness of their own creative skills. To be able to recognize the visual qualities of the different printmaking media. \\
Context: The course will include lectures and demonstrations of the processes of screen process printing and lectures on the historical problems of screen process printing and lectures on the techniques of etching and lithography. The student will be expected to critique the works of the finished work. Trips to public and private galleries to view prints will be mandatory. \\
Method: 3 hrs. per week, Lectures, working demonstrations, individual as well as group critiques will be at appropriate intervals throughout the course. \\
Additional comments: $30.00 Lab Fee. Limited enrollment: 15.

FARRAH, D. \\
Intermediate Drawing \\
Prerequisites: FARRAH \\
Course description: An investigation of the creative act of drawing and its use in the development of the artist's personal visual perception. Limited enrollment: 15. \\
Instructor: D. Holman \\
Session: Winter Day \\
Objectives: To give the fine arts students an opportunity to expand their knowledge of the art of drawing. \\
Context & Method: 3 hrs. per week of studio work, with group and personal critiques of the students' work. The student will be responsible for attending every class, keeping a definitive sketchbook and submitting a number of finished drawings at the end of the course. \\
Evaluation: Based on: final portfolio submission, studio exercises, participation in class and sketchbook marks.
FARB87Y Introduction to Painting
Pre-requisites: FARA70, FARA71; Permission of Instructor
Limited enrollment: 20
Course Description: An introduction to principles and techniques of painting. Emphasis is on understanding a medium's special characteristics so that artistic expression may be enhanced. No previous experience necessary in all media to be investigated. As the course title implies, the objective is to encourage exploration and experimentation in different media.
Instructor: B.A. Amenta Session: Winter Day
Type of Course: A studio course stressing experimentation and creative exploration. For each of the media to be studied, there will be a demonstration by the instructor. Students will then be assigned projects in the medium, and work closely with the instructor.
Content: Informal lectures and demonstrations on each medium (watercolor, egg tempera, oils, acrylics). Assigned projects in each medium. Preparation of grounds and materials. Critiques of paintings and visits to galleries.
Method of Evaluation: Students will be responsible for a number of paintings throughout the year; for working closely with the instructor throughout the course of developing each painting. Class participation and attitude are important, especially with regard to the exercise of critical appreciation.
Bibliography: available from Mrs. R. Gower in R-311A.

FARB96B Intermediate Painting (See Summer Arts Programme)

FARB92F Introduction to Lithography
Pre-requisites: FARA70, FARA71, FARB91 or Permission of Instructor
Course Description: An introduction to stone lithography edition printing involving a detailed investigation of materials and techniques. Limited enrollment: 10
Instructor: D. Holman Session: Winter Day
Objectives: To introduce the student to stone lithography
Content: The course will include several lectures explaining the technical and artistic nature of stone lithography, along with individual investigation of the medium. The student will be expected to draw and execute several lithographs.
Method: 3 hrs. per week, studio work, lectures, working demonstrations. Critiques will be at appropriate intervals throughout the course.
Evaluation: Evaluation will be based on the work attitudes of the student and the actual work done in class.
Additional Comments: The student will be expected to bring to the class a strong creative attitude towards studio work. Lab fee $25.00.

FARB83S Intermediate Lithography
Pre-requisites: Normally 8th standing in FARB92; permission of Instructor
Course Description: An extension of FARB92. Limited enrollment: 10
Instructor: D. Holman Session: Winter Day
Objectives: To further explore the art of stone lithography in multi-colour printing.
Content: The same as FARB92
Method: 3 hrs. per week, studio work, lectures, working demonstrations, critique held at appropriate intervals throughout the course.
Evaluation: Evaluation will be based on the work attitudes of the student and the actual work done in class.
Additional Comments: The student will be expected to bring to the class a strong creative attitude towards studio work. Lab fee $25.00. Permission of instructor required.
PARC109 Studies in the High Renaissance

Prerequisites: PARB107 or PARB109 or
Corequisites: PARB105

Course Description: Leonardo's art from the apprenticeship in
Paridocchi's workshop to the Mona Lisa. The study will include
Leonardo's drawings as well as his theoretical work on painting.

Instructor: G. Scavini     Session: Winter Evening

Course Content: Scope of the course is to focus on the transition from
Early to High Renaissance as exemplified by the creator of a High
Renaissance style. For the first part the emphasis will be on
workshop practice and methods; the second on the intellectual and
independent growth of Leonardo.

Teaching method: 2 lectures
Evaluation: 1 one-hour examination, 1 slide test, one essay

Bibliography: E. Clark, Leonardo da Vinci, Cambridge University Press,
1979 (also later editions)

PARC110 Classicism in Seventeenth Century Art

Prerequisites: PARB27

Course Description: The classical trend of the Baroque period from
the death of Michelangelo (1564) to that of Poussin (1665). In
painting, Derwentshire, Philippe de Champaigne, Claude Lorrain, and
Poussin himself will be studied; in sculpture, Algardi and
Bo HttpServletRequest will be studied.

Instructor: G. Scavini     Session: Winter Day

Course Content: Analysis of paintings and sculptures in combination with a
study of the theoretical writings on art produced in Italy and France
(Apparati, Beltracchi, Pelibiazio). The relationship between the
classical doctrine of art and the Paris Academy will also be studied.

Teaching method: two one-hour lectures
Evaluation: One essay, one essay test (one hour), 1 slide test

PARC117 Baroque Painting in the Netherlands

Prerequisites: PARB40

Course Description: The course considers the Golden Age of
Netherlands painting with such major artists as Rubens, Rembrandt,
and other Baroque artists. Considerable emphasis will be placed on the
social and historical background which made this surprising
development possible.

Instructor: R. Sielhoff     Session: Winter Day

Further information will be available later in M511A.
PARC11Y Advanced Studio: Individual Study in Painting

Prerequisites: Permission of Instructor must be obtained by first week of classes.

Course Description: This course is only for students who would like the opportunity to develop an already existing painting ability.
Students must convince the instructors that they are able and willing to assume the responsibility to carry this course independently of intensive guidance.
Limited enrollment: 5.

Instructor: S.A. Amenta and D. Holman Session: Winter Day

Objectives: The purpose of this course is to give the promising student the opportunity to work independently while receiving advanced criticism.

Content: A number of works to be arrived at in consultation with instructors, to be presented for periodic critique.

Method: Students may receive suggestions and some guidance in planning year's activities or in conceiving projects, but must work independently otherwise (except for periodic critiques).

Bibliography: To be arranged in consultation with instructors.

Additional remarks: This course is not for the student who is not quite sure of what he wants to do, but instructors will help the student who needs help in deciding how to do what he wants to do.

PARC21Y Advanced Studio: Individual Study in Printmaking

Prerequisites: Permission of Instructor must be obtained by first week of classes. Limited enrollment: 5.

Instructor: D. Holman, S. Amenta Session: Winter Day

Objectives: The purpose of this course is to give the promising student the opportunity to work independently while receiving advanced criticism.

Content: A number of works to be arrived at in consultation with instructors, to be presented for periodic critique.

Method: Students may receive suggestions and some guidance in planning year's activities or in conceiving projects, but must work independently otherwise (except for periodic critiques).

Bibliography: To be arranged in consultation with instructors.

Evaluation: Conducted by both instructors with participation of student.

Additional remarks: This course is not for the student who is not quite sure of what he wants to do, but instructors will help the student who needs help in deciding how to do what he wants to do.

Courses not offered in 1978-79:

PARB212/S Romanesque Art Corequisite: PARB204
PARB213Y Renaissance in Italy Corequisite: PARB204
PARB217Y Baroque Painting in The Netherlands Corequisite: PARB204
PARB218r Ancient Greek Sculpture (700-480 B.C.) Corequisite: One Fine Art History term course or FCH201
PARB214T Medieval Art from IV to XIV Century Corequisite: PARB204
PARB215/S High Gothic Architecture Corequisite: PARB204
PARB216Y The Arts in Northern Europe ca. 1400-1500 Corequisite: PARB204
PARB217/S Early Christian and Byzantine Art Corequisite: PARB204
PARB219/3 Great and Micromosaic World Corequisite: One Fine Art History term course or FCH201
French

Discipline Representation: L.E. Ducette

The courses offered in French are designed primarily for students who have a grade 12 French course, or who wish to continue their study of the language and of the literature of France and French Canada. Students without a grade 12 French course or an equivalent background who wish to qualify for FREN 101, or who wish to begin their study of the subject, will find opportunities in FREN 30 (Winter Session), and in the program of the Humanae Language Institute. FREN 201 serves to consolidate the previous experience of students in the understanding and use of the language.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Major Programme in French are invited to consider taking both FREN 201 and FREN 205 in their first year, then to choose courses from within the following groups: (1) the literature of France and French Canada; (2) the age of the Enlightenment; (3) the pre-Canoes poetry, theatre and novel in various periods; (4) advanced language; (5) language practice courses.

Students should also consult the Major Programme entries under French and under Modern Languages and Literatures in the College Calendar.

MAJOR PROGRAMME IN FRENCH

Supervisor of Studies: E. L. Bégin.

Students must complete at least ten full course equivalents, including:

1. the sequence FREN 101, 201, 301 except where exemption is granted for special proficiency.
2. one full course equivalent in the area of French linguistics, stylistics, translation, or history of the language.
3. three full course equivalents in literature, at least one of which should deal with a period prior to 1800 and one with a period after 1800.
4. four full course equivalents at C-level (or from the 300 and 400 series courses offered on the St. George campus).
5. It is recommended that the student include in his programme one full course equivalent from the FREN 207-208 and 300 series (Supervised Reading) involving individual research in a specific area. Such a course may also count toward satisfying requirements in (2), (3) and (4) above.

The following may not count toward a Major Programme:
1. more than two A-level FREN courses;
2. any of FREN 209, 310, 311, 312, 313, 314;
3. more than two courses from the series FREN 225 to 249, offered on the St. George Campus.

The student’s overall programme must be approved by the French Discipline and registered with the Supervisor of Studies before completion of the tenth course.
FREN400 Preparation for University French Studies

Prerequisites: Grade 13 French, or at least 704 in FREN400, or equivalent. Students may qualify for admission to FREN401 by showing sufficient competence in the FREN400 entrance examination.

Course description: This course provides all students with opportunities to improve their language skills by means of readings, written compositions, oral classes, phonetics, and work in the language laboratory. Not open to native speakers of French.

Instructor: T.B.A.

Session: Spring Day

Note: This intensive course will have four two-hour classes and a laboratory hour each week.

Other Recommended Courses: For students planning to major in French, FREN401.

Course and Method: The course includes a review of grammar, reading and discussion of texts representing various styles and cultures, oral practice in the laboratory, and other exercises that class and instructor may choose to devise. The schedule calls for three class hours and one laboratory hour per week, at which regular attendance is important. Composition and participation in discussion are emphasized.

Evaluation: A final examination accounts for one-third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.

FREN405 Language Practice

FREN410 Elementary Conversation I

See Summer Language Institute

FREN415 Elementary Conversation II

See Summer Language Institute

FREN400 Introductory French

Prerequisites: Permission of Instructor

Course description: This course is designed to enable students to continue their study of the French language with a view to understand the language in a more advanced manner. The course is divided into two parts: a first part on grammar and a second part on composition. The course is normally open to students with Grade 13 French.

Note: Students wishing to take this course will be required to take an examination before being admitted. It is anticipated that only those students who have previous experience in French will be accepted. Students who demonstrate the necessary background in French are strongly advised to take FREN400 and FREN401 at the Summer Language Institute.

Instructor: T.B.A.

Session: Winter Day

Cost: Basic skills in comprehension and using spoken and written French will be emphasized.

Method: Four class hours and one language laboratory hour will be devoted to the course content.

Bibliography: The prescribed text and workbook have not yet been chosen. Details will be available from the bookstore as of May, 1978.

Evaluation: The final mark is based on performance in a final examination (1 hour, 1/3 total) and on a term mark (1/3 total), which includes a 1 hour test in December.

FREN405 Introductory French

Prerequisites: Permission of Instructor

Course description: This course is intended for students who wish to continue their study of French in a subsequent year. The course is not normally open to students with Grade 13 French.

Note: Students wishing to take this course will be required to write an examination before being admitted. It is anticipated that only those students who have previous experience in French will be accepted. Students who demonstrate the skills required at the Grade 13 level may be admitted directly to FREN410.

Instructor: P. Mes

Session: Fall Day

Note: It is anticipated that students successfully completing FREN400 in December, 1978, may continue their study of French in FREN410 in January, 1979, thus completing two years of French in college.

Cost: Basic skills in comprehending and using spoken and written French will be emphasized.

Method: Four two-hour classes, and one two-hour laboratory class per week.

Bibliography: For the required texts, consult the college bookstore.

            Le Petit Nicolas. Renierre; P. Baud.draft outline.

Evaluation: Frequent short oral and written tests, supplemented with readings and compositions, as well as a two-hour mid-term test will constitute the term mark, which forms 1/3 of the final mark. The rest of the final mark is provided by a three-hour final examination.

FREN405 Language Practice

FREN410 Elementary Conversation I

See Summer Language Institute
Introduction to Literary Analysis

Prerequisite: Grade 13 French or equivalent
Corequisite: FREN 311

Course description: This course introduces the student to methods of critical analysis through the study of selected works from the fields of French drama, fiction and poetry of the eighteenth and twentieth centuries.

Instructor: L.P. Ducotte, Session: Winter Day

Context: The works to be read are classics of the modern period. They present a wide range of themes, styles, and genres ranging from the Romantic theatre to the Realistic novel.

Teaching Method: Two hours per week of "lecture explicative," class discussion, student presentations of specific topics.

Bibliography: For an official list of required texts consult the College Catalogue. In 1976-77 the following were studied:
- Alain-Fournier Le Grand Meaulnes
- Anouilh Antoine
- Balzac Short Stories
- Colette La Vie heureuse
- Denis Donzelot
- Inesse Truge Pleyr
- Racine Phedre
- Musset La Fillette

Evaluation: At least two written assignments, one term essay, and two term tests. There is no final examination. The weighting of assignments is to be determined in consultation with the students.

FREN 213B Language Practice

FREN 241C Intermediate Conversation I

Few Summer Language Institute

FREN 311Y Language Practice

Prerequisite: FREN 311

Course description: A continuation of first-year language work, including grammar, composition, oral practice, readings and laboratory work. Not normally open to native speakers of French.


Context: FREN 311Y will deal with problems of fluency and pronunciation in oral and written expression, problems of grammar and general composition in written. Class work will involve oral practice; readings; work in vocabulary-building; composition and basic stylistic analysis. Classes will meet three hours per week and will be arranged to cover several aspects of language work.

Teaching Method: Lectures, tutorials, and laboratory work.

Bibliography: For required texts, consult the College catalogue.

Evaluation: Several tests and/or examinations; oral assignments; composition; grammar exercises; class participation. Weighting to be determined in consultation with the students.

Additional Comments: Attendance at class and active participation when present are strongly urged for this type of course.
chemical formula of water: H2O

life of a culture: art, literature, thought, history, religion and social behavior and attitudes. Each student will also be given an opportunity to deepen his/her investigation by concentrating on one of these aspects which interests him/her most, throughout the course.

Teaching Method: Two hours of lecture and one seminar session per week. The lecture, which will proceed chronologically through the different periods of French history, will be divided into sections and will include readings. Students will then work to reach a better understanding by doing supplementary research in the field of their choice and by doing some supplementary readings from the recommended works. Presentation and discussion of their research will take place during the seminar period. Films and slides will also be used regularly by instructor and students to help visualization.

Bibliography: Thurov, J., Les grandes étapes de la civilisation française moderne.

Evaluation: Weekly presentations: 40%

Term tests (two-hour end of term): 60%

Additional Comments: This course should prove very useful to students wishing to undertake literary studies giving them a good overview understanding of the French culture and enabling them to have a more comprehensive approach to the study of any given literary period.

French Civilization: The Vision of Man

Prerequisites: FREN 201

Course Description: This course will study the basic features of French culture by analyzing the concept of man throughout the various eras of French history as reflected by social and political institutions and movements, religious trends, works of art and literature. Readings from Balzac, Flaubert, Baudelaire, Daudet, Duras, and others will be combined with a selection of lectures and illustrative applications of the use of the visionary aspect of man from "l'homme inconnu" to "l'homme absurde".

Session: Winter Day

Instructor: L. Klotz

Other Recommended Courses: Any course on the history of France or Europe, Art History, French literature, Religious studies (HUM 307), and Philosophy (PHILA 244 through PHILA 350).

Objectives: The constant metamorphoses which characterize the life of a culture can be summarized by various efforts to define man and provide a role in society for his role in the world and the role adequately means to define this role in terms of social and religious structure. Works of art, literature, social and political institutions, historical events, and thought all play an integrative role in providing answers. Are the various metamorphoses the product of chance and fate? Or do they rather follow an identifiable course? These are the questions which the students will attempt to answer by investigating some aspects of the French culture from the religious to today.

Context: The textbook will provide each student with an opportunity to get more basic familiarity with the numerous factors which affect the nature of the culture.
Course description: A study of the French individualist novel, with emphasis on the theme of love. Novels studied will include Flaubert, Proust, and Constant. Students are urged to consider taking PRE839 as an optional course.

Instructor: W.J. Bancroft  Session: Winter Day

Content: This course constitutes a continuation of PRE838, except that in the study of the appropriate 19th century French novels, the emphasis will be on the individual in love, as opposed to the individual in society.

Method: Two hours per week; the proportion of lectures to tutorials will depend, in part, on the size of the class and will be decided at the beginning of the term.

Bibliography: A detailed bibliography for this course will be provided on the first day of term. Students interested in taking PRE839 might wish to read J. Hyler, Les Nouveaux de l'Individu.

Evaluation: There will be one major essay and possibly an additional classroom assignment. There will also be a term examination or take-home test. Students will be graded on the essay, the test, the classroom assignment(s), if any, and class participation.

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Course description: A study of the main characteristics of Quebec theatre in the twentieth century, with emphasis on the period 1960-present.

Instructor: L.A. Boisvert  Session: Winter Day

Content: A brief introduction to the history of theatre in France before the Second World War is provided, but the required texts all come from the period of the past twenty-five years. We shall attempt to strike a balance between structural and thematic analysis of these plays.

Teaching method: Two meetings per week, both after the initial two or three introductory sessions (of the discussion/seminar type). Students are strongly urged to participate, and to organize one or more class presentations on specific topics.

Bibliography: For an official list of required texts consult the College bookstore. As this course is held as though we shall study the following: Giraudoux, J. La Magie des troupeaux; Beaudin, Jean, La Magie de la danse; Giraudoux, Jean, Le soleil de minuit; Giraudoux, Jean, Le rideau des bêtes; Giraudoux, Jean, Le voyageur errant.


Evaluation: In line with new University regulations, an examination (written), and a combination of essay(s), class presentations or equivalent work, by individual contract to make up the remainder.

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Course description: This course will consist of an analysis of the portrayal of women and of the concept of femininity as presented by the one hand stereotyped roles assigned to females (mother, sister, other, etc.) and on the other hand the effort will be made to discover and interpret the dominant myths or stereotypes that have come to embody the male imagination.

Instructor: C. Jennings  Session: Winter Day

Further information will be available later in Room M-131A.
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Women's Consciousness in French Literature

Course description: This course will attempt to trace the history of women's role in French literature and to analyze the concept of women's role as experienced and described by prominent female authors from the 18th century to the present.

Prerequisite: FREN12

Instructor: C. Jenness

Session: Winter

Further information will be available later in Room E-31A.

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The French Novel in the Eighteenth Century

Course description: This advanced course specializing in the detailed analysis of the major novels of the period. Although it is not essential, students who have taken FREN24, 345, 346 will find that these courses provide them with a useful background.

Prerequisite: FREN24

Instructor: F. Noss

Session: Winter

Further information will be available later in Room E-31A.

FREN308 Language Practice

Prerequisite: FREN31 or FREN39

Course description: This course is a continuation of FREN31 and includes readings, grammar, composition, translation and stylistic exercises, discussion and oral reviews.

Instructor: P. Hoppler

Session: Winter

Further information will be available later in Room E-31A.

FREN305 Intermediate Conversation II

See Summer Language Institute

FREN404 Supervised Reading

Prerequisite: One B-level course in French, excluding FREN21.

Course description: These courses offer the student an opportunity to carry out independent study of an advanced level of French and in consultation with the student's advisor to determine the course objectives, content, bibliography, materials, and evaluation of the course. The student should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should contact Prof. L.E. Doucette.
FRSC145
Cross-currents in Contemporary French Fiction
Prerequisite: 1 B-level course in French, excluding PM211 and PM217, or permission of instructor.
Course description: An examination of the varied thematic and technical perspectives open to contemporary novelists.
Instructor: S. Mitley
Session: Winter
Content: Reflection on wartime collaboration with Claire; revolution and fantasy in Quevau; Rinkard's portrait of nrbbn in disintegration; the anti-novel of nitvry; and Tournier's vision of the modern njiicneen
Course in a world without others.
Method: Two hours a week of lectures and discussion.
Evaluation: To be decided by in-class discussion on the basis of 1-
hour essay, 1 class attendance, final exam and class participation.
Bibliography: Claix, Les Sources du Lac de Constance; R. Quevau; La trouvaille; A. Rinkard; La guerre des tartes; H. Tournier; Nouveau et les Fables de l'Occident; M. Merto. L'emploi du temps.

FRSC315
French-Canadian Poetry
Prerequisite: At least one completed 1 B-level course in French, excluding BI1, BI2.
Course description: The development of Canadian poetry in French from the middle of the nineteenth century to the present, with emphasis on the contemporary period.
Instructor: E. Z. Becquet
Session: Winter
Content: After the initial few weeks in which a general introduction to poetry and to the origins of French-Canadian poetry is provided, the course is heavily weighted towards the twentieth century. Such emphasis will be given to modern poets such as Saint-Denis Garnier, Aime Moreau, Alain Grondalas.
Teaching Method: Two hours per week, in a discussion/semi-formal format.
Students may be asked to prepare an oral presentation on an author or a topic.
Bibliography: For an official list of required texts consult the Course Handbook after the beginning of May. Not likely, probably include: Guy Gélyaste, Dictionnaire de la poésie québécoise Aline Bouquet, Poémes en images and paperbacks of various individual authors, depending on availability.
Some useful background reading:
- D. Basset, Les liaisons du poète canadien-français
- R. Poitras, Les points de vue

Evaluation: Methods of evaluating student performance will be determined, by mutual consent, within the first two weeks of semester. It is anticipated that there will be no final exam.
Courses not offered in 1978-79:

FREN24V French Thought and Literature in the Age of Enlightenment (1715-1799)
Prerequisites: FREN241 (FREN245)

FREN26Y The Romantic Current in French Literature
Exclusions: FREN204
Prerequisite: FREN201

FREN36F French-Canadian Literature to 1845
Prerequisite: FREN201

FREN37S French-Canadian Literature since 1845
Prerequisite: FREN201

FREN219P Workshop in Modern French Theatre
Prerequisite: FREN201 or equivalent language ability

FREN40T The Poetry and Prose of the Golden Age
Prerequisite: FREN201

FREN41S The Poets of the Golden Age: Corneille, Racine and Molére
Prerequisite: FREN201

FREN42Y General History of the French Language
Prerequisite: FREN201

FREN43S The French Language in Canada
Prerequisite: FREN201

FREN44Y Theoretical and Practical Phonetics
Prerequisite: FREN201

FREN44Y The Twentieth Century: The Search for Identity
Exclusions: FREN201
Prerequisite: FREN201

FREN207 Problems in Translation
Exclusions: FREN201 or FREN203

FREN208 Explication de textes
Prerequisite: One 2-level course in French, excluding FREN101 and FREN102, permission of instructor

FREN209 Cinema and Literature
Prerequisite: One 2-level course in French or permission of instructor

FREN212Y Introduction to Medieval French Language and Literature
Prerequisite: One 2-level course in French, excluding FREN101 and FREN102

FREN245Y Modern French Poetry from Baudelaire to Valéry
Prerequisite: One 2-level course in French, excluding FREN101 and FREN102

Geography

Assistant Chairman: B.B. Bryam

The geography program includes courses on diverse topics having to do with the development of landscapes, the evolution and experience of urban and rural landscapes, the management of natural resources, and the spatial expression of economic processes. It therefore offers a strong interdisciplinary flavor; courses can be taken either separately or in combination towards a B.A. or a B.Sc. degree.

The geography curriculum is designed in terms of course sequence and combinations that will provide students both with a broad background in the discipline and with a sound basis for a career, whether in planning, teaching or various government agencies and departments. While each student should, in consultation with the faculty, develop his or her own program, the following sequences are recommended. Please see the University of Guelph's timetable for up-to-date information in which we intend these courses to be taken. Some suggestions for relevant courses in other disciplines are also made; there are many other relevant courses in Geography and other subjects offered on the St. George Campus.

Sequence A: Physical Geography
A04, A05
B02, B05, B12, B03, B19, B10, B07, B15
C04, C15, C22, C01, C05, C07, C12
G12A01, H12A01, H12A02

Sequence B: Urban/Economic Geography
A04, A05
B02, B12, B05, B13, B20
C04, C13, C19, C01, C09, C12, C14
A12B01, B12A01, B12A02

Sequence C: Landscape/Regional Geography
A04, A05
B21, B22, B05, B13, B17, B19, B23, B16
C04, C14, C17, C02, C09, C12
G12B01, H12A01

Sequence D: Environmental and Resource Geography
A04, A05
B03, B21, B22, B01, B07, B19, B18
C13, C20, C11, C23, C02, C07, C12
G12A02, H12A01

Sequence E: A General Programme in Geography
A04, A05
B22, B01, B03 or B19, B05 or B13, B17
C13, C13, C14
MAJOR PROGRAMME IN GEOGRAPHY

Supervisor of Studies: H.C. Helph

Students should normally complete not less than nine full courses (or equivalent) as follows:

(1) GNB54TH The Nature of Geography
(2) GNB56TS Introduction to Geology
(3) GNB56Y Geographic Methods II: Analytical and Quantitative Methods
(4) GNB591Y Supervised Research
(5) GBC112Y Philosophy of Science
(6) GNB510 History and Philosophy of Geography (courses available only on the St. George Campus)

Although students may complete major programme requirements by completing courses available on the Scarborough Campus students should also look at the Calendar of the Faculty of Arts and Science (St. George Campus) to evaluate the wide range of geography courses offered on that campus.

GNOB56Y The Nature of Human Geography

Exclusions: GNB56Y (GNB517); GNB517

Course Description: An introductory course designed to acquaint students with the scope, the major approaches, the basic attitudes and methods of human geography. In the first term, the course will focus on the concepts, methods and practices of regional study, from the 'natural region' to regional science, and from 'subjective' analysis to subjective interpretation. In the second term, the emphasis will be on spatial analysis, including elementary location theory, land use and spatial interaction, and problems of spatial structure and inequality in both urban and rural environments.

Instructor: P.K. Cane, M.N. Bunce Session: Winter Day

Content: Specific topics include: objectives and orientation of human geography; changing philosophies; methods, regionalism and spatial analysis as related; alternate approaches; regionalism and regional science; regional science; interpretative themes in the study of regional landscapes. The scientific approach to human geography theory and models: spatial analysis; measurement and classification; concepts of the unique and the general; subjective and objective explanation.

Teaching Method: Lectures and tutorials

Evaluation: Mid-term test, final examination and several assignments for tutorial sessions.

GNOB56Y Introduction to Physical Geography

Exclusions: GNOB517; GNB517; GNB512

Course Description: An introduction to principles of physical geography. The course is designed for specialists in geography but is also suitable for non-specialists interested in obtaining some introduction to physical geography. The course will cover basic geomorphology, biogeography, climatology and meteorology.

Instructor: J.H. Greenwood Session: Winter Day

Content: As in course description above.

Teaching Method: Lectures and laboratories

Evaluation: Laboratories, final examination.

GNOB56Y Geography of Resources

Prerequisites: GNB504 and GNB590

Course Description: Problems of resource use with particular reference to their environmental setting: (1) definition and classification of resources; (2) special problems relating to agricultural resources; (3) specific aspects of the use of non-renewable resources; and (4) an examination of the use, misuse and abuse of resources.

Instructor: J. Dierkin Session: Winter Day

Contents: Resource management will be examined using three broad perspectives: the economic, the ecological, and the sociological approaches. Specific resource issues include population growth, air and water pollution, energy, solid waste management, environmental hazards, underdevelopment and resource use, and the legal aspects of resource management.

Teaching Method: Two hours of lectures per week plus possible tutorials.

Evaluation: Two 2-hour examinations and several short assignments.

GNOB56Y Analytical and Quantitative Methods in Geography

Exclusions: ECN111, FSC112, MAT102, MAT137

Prerequisites: GNB504 or GNB505

Course Description: An introduction to classical and Bayesian probability theory, frequency and sampling distributions, population parameters and statistical estimation, hypothesis testing, correlation and regression; sampling theory, and analysis of variance. Applications to geographic problems include spatial sampling, trend surface analysis, evaluation of spatial patterns, and spatial autocorrelation. Elementary computer programming is also included.

Instructor: J.R. Miron Session: Winter Day

Content: As in course description above.

Teaching Method: 2 hours lectures, 2 hours labs per week

Evaluation: Weekly assignments; mid-term, December and Final Exam.

GNOB56Y Climatology

Prerequisites: GNB504 and GNB505

Course Description: The main aspects of Physical Climatology and the sensitivity of the Earth's atmosphere. The second half of the course deals with the distribution of climate and atmospheric pollutant instruments.

Instructor: T.B.A. Session: Winter Evening

Content: As in course description above.

Teaching Method: Lectures, laboratories

Evaluation: Labs, term papers and exams, to be determined.
Cultural Geography

Prerequisites: GISR34 or GISR36

Course Description: An exploration of the main concepts of cultural geography through an examination of the characteristics, origins, and experiences of present-day landscapes.

Instructor: R. B. (Session: Winter Day)

Content: Fall Term - the features of modern landscapes and their technological, architectural, and cultural origins will be discussed. Fall Term - an examination of the meanings and qualities of landscapes and places.

Teaching Methods: Lectures, tutorials

Evaluation: Project based on field investigations, an essay, and an examination.

Coastal Geomorphology

Prerequisites: GISR15

Course Description: This course will explore the coastal zone as a physical environment in a way that will help students understand the processes that shape the coastal zone, its historical development and its relationship with the surrounding environment. Students will be asked to consider the role of coastal processes in the formation of coastal landforms and the impact of human activities on these processes.

Instructor: S. Greenwood (Session: Winter Day)

Content: As in course description above.

Teaching Method: Lectures, field trips, labs

Evaluation: Essay, 1 term project, compulsory laboratory and final examination.

Hydrology and Water Resources

Prerequisites: GISR40 and GISR45

Course Description: The course presents a quantitative study of the processes governing the behavior of water at or near the surface of the earth. Conventional techniques of analysis and prediction are considered as well as some of the applications to problems of water resource management planning.

Instructor: A. G. Prior (Session: Winter Day)

Content: To understand some of the controls on the behavior of surface and subsurface water. To develop a familiarity with methods of hydrologic analysis and prediction. The opportunity to work in hydrologic regimes caused by natural and man-made activities.

Teaching Method: 2 hours of lectures, 1 hour of lab per week

Evaluation: Lab reports, mid-term, final exam and projects
GGG415Y  General Geomorphology  
Prerequisites: GGG204 and GGG205  
Course description: Processes of surficial material development; and landform evolution; weathering processes and soil development; and drainage system analysis; introductory coastal geomorphology; and deltaic processes. This course explores the geomorphology of landform evolution. It also examines the role of climatic change: Pleistocene and present day glaciation; geomorphology as an applied geological field.  
Instructor: R. Bryan/ P. Greenwood  
Session: Winter Day  
Content: As in course description above  
Teaching Method: Lectures, laboratories, research project  
Evaluation: Research project, labs, final examination  

GGG204Y  Introduction to Regional Science  
Prerequisites: GGG204, ECR03  
Course description: An introduction to analytical city planning. This course surveys quantitative approaches to the problem of urban life. The course is designed to provide an overview and assessment of the methods and theories currently in use in Regional Science.  
Instructor: J. A. McRae  
Session: Winter Day  
Content: As in course description above  
Teaching Method: Three hours of lectures per week  
Evaluation: Practical problem assignments; December and final examinations.  

GGG310  Aerial Photograph Interpretation  
Prerequisites: GGG111 and GGG205 or Instructor's discretion  
Course description: The course covers the analysis of types of aerial photographs and methods for analyzing them. The course also includes the application of types of information to problems in geology and other fields.  
Instructor: L. G. Price  
Session: Winter Day  
Content: As in course description above  
Teaching Method: 2 hours of lectures per week and 2 hours of laboratory work  
Evaluation: Two exams, 1 project, 1 final examination.  

GGG412P  Cartography  
Prerequisites: GGG204 and GGG205 or Instructor's discretion  
Course description: An introduction to the compilation, construction, and representation of land maps of a variety of types of maps. The course also introduces some of the basic field techniques used by geographers.  
Instructor: T. A. L.  
Session: Winter Day  
Content: As in course description above  
Teaching Method: Lectures and labs  
Evaluation: Labs and examination.  

GGG301Y  Topics in Regional Geography  
Prerequisites: GGG204 or GGG205  
Course description: A systematic examination of the dynamics of regional geography as expressed in divergent patterns in different world regions. The precise regional examples used will vary from year to year in accordance with research interests of instructors involved and with interests of students.  
Instructor: T. A. L.  
Session: Winter Evening  
Content: As in course description above  
Teaching Method: Lectures  
Evaluation: Combination of exams, term papers.  

GGG410Y  Research Dissertation  
Prerequisites: Any fifteen courses. By the end of the year in which the student takes this course, at least eight courses in Geography (not including GGG301) must have been completed.  
Course description: Students will be required to complete a dissertation and submit it with an examining committee. The topic for the project should be selected by the end of the second year of full-time study (or equivalent) and must be approved by a staff supervisor. Students should start work on the project during the summer preceding their fourth year of full-time study (or equivalent), and should complete most or all of their field work during this period.  
Instructor: By arrangement  
Session: Winter Day and Evening  
Content: Decided by each student in consultation with faculty  
Teaching Method: Dissertation  
Evaluation: Based on the dissertation submitted no later than March 1st, and an oral examination.
GOC1035 Urbanization in Southern Ontario

Preparation: GOC105

Course description: An advanced discussion course focusing upon the process of urbanization and its control and planning. Emphasis is upon the framework and programs of regional planning in southern Ontario, existing trends of industrial and population change, and the relationship between urban and rural areas.

Instructor: P.W. Cave

Session: Winter Day

Content: As in course description above

Teaching Method: Seminar

Evaluation: 1 essay - 75%, seminar assignments - 25%

GOC1065 Biogeography Seminar

Prerequisites: GOC1065 and at least one of GOC105, GOC155, GOC165


Instructor: T.B.A.

Session: Winter Day

Content: As in course description above

Teaching Method: Lectures/Nominars

Evaluation: Nature of term papers and exams

May not be offered 1975-76, depending on availability of instructor

GOC1075 Advanced Seminar

Prerequisites: At least fifteen full course equivalents of which at least seven must be in Geography. Permission of instructor is essential for registration in this course.

Course description: A course for fourth year geography majors, which is designed to provide an opportunity: i) to continue the major programme by exploring areas of special interest through readings, and ii) to form groups and develop understanding more about the relationship between the various geographical fields in the discipline. The course is a valuable follow-up to GOC1075.

Instructor: T.B.A.

Session: Winter Day

Content: As in course description above

Teaching Method: Flexible, but will involve individual consultation, special seminars, small group workshops.

Evaluation: Paper on reading work.

GOC1105 Soil Management and Conservation

Prerequisites: GOC105 and/or GOC195

Course description: Application of soil geography to problems of resource use and management: soil erosion and conservation programs; soils and agriculture; soil surveys and exploration; soil erosion and soil fertility; soil mapping and estimation; soil classification; soil fertility and productivity; soil management; soil classification and soil survey.

Instructor: R.B. Buehler

Session: Winter Day

Content: As in course description above

Teaching Method: Lectures and research project

Evaluation: Term paper, group research project and final exam.
GEOG216F
Rural Planning and Development

Prerequisites: Any 3-level course in Geography. Students with a background in other social sciences disciplines may be interested in this course: they will be admitted with permission of instructor.

Course description: Examination of the special problems of rural settlement and land-use in the modern world, and discussion of planning and development policies. Context will be the differences between the problems of rural areas in affluent, industrialized regions and those in poor, less-developed regions.

Instructor: H.F. Bruce
Session: Winter Day

Content: The distinctiveness of the problems of rural areas and of rural society, differences between developed and developing world, policy options, planning of food supply, overpopulation, land-use competition, urbanization, rural development programmes, agricultural change, settlement and land-use planning, rural and urban priorities.

Teaching method: Seminars

Evaluation: Two assignments, including bibliographic review.

GEOG317F
Economic Aspects of Water Resource Management

Prerequisites: GEOG101


Instructor: Judith Dobkin
Session: Winter Day

Content: A broad range of water resource material will be covered from a social science perspective. This will include planning for water supply, water quality, flood control, and recreation. Attention will be directed toward some of the present methodological problems facing water resource planners. Topics will include methods for preparing projections, impact analysis, project evaluation, and public participation programs.

Teaching method: Lectures, tutorials

Evaluation: Project exercises, final examination.

GEOG337F
Physical Aspects of Water Resource Management

Prerequisites: GEOG101: students who have a credit in any of GEOG107, GEOG108, GEOG109, or GEOG110 may be admitted with permission of instructor.

Course description: The physical repercussions of man's use of surface and sub-surface water, with particular emphasis upon the degradation of water quality by human activities, thermal and organic wastes. The course outlines the main sources of degradation and depletion of water resources and propose some physical solutions to these problems.

Instructor: A.G. Price
Session: Winter Day

Content: To understand the physical processes involved in the degradation of the water resource, and to increase awareness of the sources and costs of this deterioration, as well as formulating correcting strategies.

Teaching method: One 2-hour lecture per week

Evaluation: 1 essay, 1 seminar and final examination.

GEOG338F
Advanced Quantitative Methods

Prerequisites: GEOG302

Course description: A treatment of advanced quantitative methods currently in use in Geography. Topics to be included will vary with faculty. Multivariate statistical analysis including principal component analysis, factor analysis, and discriminant analysis, systems analysis, probability and simulation, and application of such tools and evaluation of their limitations.

Instructor: J.B. Mirac
Session: Winter Day

Teaching method: Three hours lectures per week

Evaluation: Practical problem assignments, term paper, and final examination.

GEOG356F
Sedimentary Models

Prerequisites: GEOG313, (GEOG302), or GEOG105 or Geog. 211 (56.1)

Course description: This advanced course develops the basic principles of sediment transport mechanics necessary for the interpretation of the physical properties of sedimentary rocks. Detailed examination of a wide range of modern sedimentary systems will be undertaken to establish criteria for paleoenvironmental interpretation. Topics and sediments include: facies sedimentation, facies models, palaeohydrology, and field work will be a course requirement.

Instructor: R. Greenwood
Session: Winter Day

Content: As in course description above.

Teaching method: Lectures and seminars - 2 hours per week

Evaluation: Seminar paper plus final examination.

GEOGRAPHY COURSES NOT OFFERED 1975-76

GEOG404Y
Geography of Canada

Prerequisites: GEOG402

GEOG405Y
The Geography of Economic Activities

Prerequisites: GEOG402

GEOG407Y
The Geography of Urbanization

Prerequisites: None. GEOG202 and GEOG301 are strongly recommended. Some background in the scientific approach is required.

GEOG409Y
The Geography of Underdevelopment

Prerequisites: GEOG402

GEOG411Y
Remote Sensing of Environment

Prerequisites: GEOG402 or GEOG305

GEOG435P
Theory and Method in Modern Quantitative Geomorphology

Prerequisites: GEOG313, GEOG315, or GEOG319

GEOG437P
Settlement of Upper Canada

Prerequisites: Any three 3-level courses in Geography or History.

GEOG450Y
Landscape Ecology in Southern Ontario

Prerequisites: At least three 3-level courses in Geography. (GEOG302 and GEOG303 are highly recommended)
Geology

Discipline Representative: J. Westgate

Geology is the principal branch of the Solid Earth Sciences concerned with the origin, history and structure of the Earth. It is a scientific discipline providing a dynamic perspective of the physico-chemical and biological processes that have operated on the Earth by observations of rock materials. Because of the multidisciplinary nature of Geology, the course "Planet Earth: An Introduction to Geology" interfaces well with other fields such as Anthropology, Biology, Chemistry, Geography, Physics and Quaternary studies, and provides a sound basis for further studies in these fields as well as in other fields. Students intending to specialize in Geology are advised to consult Professor J. A. Westgate - Room 921.

GLG3A01

Planet Earth: An Introduction to Geology

Duration: GLG1A01 and GLG1A1 (St. George)

Prerequisites: None, but one Grade 11 course in Mathematics and Grade 11 Chemistry or Biology or Physics is strongly recommended.

Course description: Fundamental concepts of physical and historical geology are introduced in the context of the Earth as a planet. The first part of the course deals with the composition, structure and origin of the Earth and the physical processes that operate on and inside it. The second part details the chronology and movements of physical and biological events on the Earth as revealed in the rock record.

Instructors: J.A. Westgate and N.D. Briggs Session: Winter Day

Other recommended courses: The suggested first year programs in Geology includes MAT1A2Y or MAT1A51, ENGL1F, PSYCH1F and BIO1A01.

Contents: Specific topics include: evolution of the Earth and its place in space; geologic time; Earth materials and the rock cycle; composition and structure of the Earth; internal geological processes, including igneous activity, metamorphism, deformation of the Earth's crust; plate tectonics; surficial geological processes and the history of the Earth with emphasis on North America.

Teaching Method: Lectures, tutorials, laboratory work and field trips.

Evaluation: 7 one-hour mid-term examinations 2 two-hour examinations 2 two-hour laboratory examinations Laboratory assignments

GLG3A02

Geology and Land Use Planning

Prerequisites: None

Course description: A course designed to show the relevance of geology to our daily lives. The fundamental theme is on problems of recognition, prediction, and control of geologic hazards and processes and their significance in land use planning. No prior knowledge in the Earth Sciences is required.

Instructors: J.A. Westgate and T.D.A. Session: Winter Day

Contents: Specific topics include: volcanic activity, earthquakes, and seismic effects; subduction and collision; surface waters and groundwater; waste disposal and treatment; resources and planning.

Teaching Method: Two hours of lectures a week and a field excursion.

Evaluation: One 1-hour mid-term examination One 2-hour final examination A report on the field excursion
MAJOR PROGRAMME IN GERMAN AREA STUDIES

Supervisor of Studies: H. Glendauf

The German-speaking areas in Europe have throughout their history exerted a major formative influence on Western civilization; be it in the fields of politics and economics or through their contributions to literature, the arts, and philosophy. Awareness of this significant fact is clearly reflected in a large number of courses in the Social Sciences and the Humanities at Scarborough College.

In order to offer the student of German Area Studies a cohesive interdisciplinary plan of study we have grouped these courses below. This is a programme of 24 courses, and students are required to take the following courses: German language courses GER320; GER321; GER322; and two full course equivalents in German literature. Five (5) courses are to be drawn from the core groups A, B, or C. The remaining four (4) courses should be selected from groups A - E, excluding your core choice.

A. History

GER320 The European World
GER321 Germany in the 19th & 20th Centuries
GER322 European Society & Culture Between the World Wars

B. The Arts

GER323 Art of the 20th Century
GER324 Introduction to Music
GER325 Haydn, Mozart, Beethoven
GER326 Music of the Romantic Period

plus two full course equivalents from among the following:

GER327 Art of the 1st Half of the 19th Century
GER328 Art of the 2nd Half of the 19th Century
GER329 Medieval Art (4th-14th Centuries)
GER330 Expressionist Trends in Western Art from Van Gogh to Jackson Pollock

GER331 Renaissance in Europe
GER332 Baroque in Europe
GER333 Music of the 20th Century
GER334 Music of the Baroque Era
GER335 The Symphony

plus one lecture course in:

GER336 The Symphony

C. Philosophy

PHIL320 Fundamental Questions of Philosophy
PHIL321 Philosophy of Mind
PHIL322 Philosophy of Science
PHIL323 Philosophy in the Later Modern Age I

plus two full course equivalents from among the following:

PHIL324 Epistemology
PHIL325 Philosophy & Art
PHIL326 Philosophy in Literature
PHIL327 Philosophy of Knowledge
PHIL328 Existence & Reality
PHIL329 Philosophy of Science
PHIL330 Philosophy of Language
PHIL331 Philosophy in the Early Modern Age I

D. Politics & Economics

ECO320 Comparative Economic Systems
ECO321 European Economic History
POL320 Introduction to Comparative Politics

E. Drama & Humanities

DRAMA101 The Directors’ Theatre
DRAMA201 The History of the Theatre I
DRAMA202 Individual Studies in German Theatre and Drama
HUM301 The Experience of Modern Prose
HUM302 Disaster and the History of Imagination
HUM303 Contemporary Fiction and its Background

Students interested in German Area Studies should contact the programme adviser as soon as possible to ensure that a satisfactory and cohesive sequence of courses is selected.

GER310Y Introductory German

Course Description: The fundamentals of grammar and syntax.

Instructor: TBA  Session: Winter Day

Content: This course is designed to help the student acquire the fundamental principles of German grammar and syntax. A basic textbook will be used throughout the year, and a variety of reading materials will be introduced early in the course to initiate conversation. The students are exposed to the four language skills (listening, speaking, reading, writing) from the very beginning of the course and are constantly encouraged to use previously learned skills in a new context. Emphasis is placed on the constant practice of the four language skills in a variety of combinations.

Teaching Method: Four hours of lectures and two hours of supervised practice in the language laboratory per week.

Evaluation: There will be a number of short quizzes, unit tests, and a final examination.

Course participation will play a major role determining the final grade.
GER307Y
Intermediate German
Exclusion: GERM110
Prerequisites: Grade 13 German or GERALD

Course description: Intensive language work focusing on readings, oral and written composition.
Instructor: TBA
Session: Winter Day

Content: The course is designed to expand the active and passive vocabulary of the student through a variety of reading materials. A thorough grammar review accompanies the reading selections. In the second term, emphasis will be placed on the development of literary discussions and conversation. Short stories and a play by contemporary German writers will supplement the textbook for the course. In addition, newsclips and material on current events will be introduced from time to time to enrich class discussion.

Teaching Method: Three hours of lecture and one hour of supervised oral practice per week. The students are expected to prepare regular homework assignments and participate in class discussions.

Evaluation: There will be a number of quizzes, tests, and a final examination. Class participation will play a major role in determining the final grade.

GER310Y
Conversation and Composition I
Exclusion: GER204
Prerequisites: GERM110 or GERM220

Course description: A continuation of the language work done in GERM220
Instructor: TBA
Session: Winter Day

Content: There will be various kinds of language exercises centered around different textbooks. A more sophisticated grammar review will enable the students to develop all four language skills of reading, writing, speaking, and translating English to German. Short pieces of prose and poetry will offer a basis for literary analysis. In addition, newspaper material on current events will be introduced to enrich class discussion and to encourage oral and written analysis in German. On an advanced level the course intends to foster the students' mastery of grammar and to develop their ability to converse in German with ease and clarity on any subject both of a general and a literary nature.

Teaching Method: Three hours of informal, yet structured discussion per week. German will be the exclusive language of instruction.

Evaluation: Written assignments and a number of short quizzes. Degree and level of class participation, however, will carry greatest weight in determining final grade.

GER315Y
History of German
Exclusion: GER202
Prerequisites: Grade 13 German or GERALD

Course description: A historical view of the German language from its beginnings within the Indo-European group to the present. Special attention will be given to the relationship of the language and to the linguistic phenomena which serve to distinguish the area from one another.
Instructor: J.D. Wood Session: Winter Day
Teaching Method: Class discussion of course material.

Evaluation: Tests and/or essays [to be decided by each individual student after consultation with the instructor] and evaluation of class participation. Subject to the approval of the appropriate decision-making body, there may be no final exam in this course.

GER407Y
The Development of German Drama
Exclusion: GER411

Course description: The course is intended to familiarize the student with the major trends in German drama during the 19th and 20th centuries. The plays will be read against the social and political background of their time. Depending on the availability of translations we shall begin with the romantics and end reading contemporary plays.

Instructor: R. Ohlandorf Session: Winter Day
Evaluation: 2 essays, Class participation.
Format: 1 2-hr. seminar/week.
GER6550
Introductory Seminar on German Literature

Instructor: Horst Wittmann
Session: Winter Day

Course Description: An introduction to the techniques of literary analysis, applied to representative texts of the eighteenth, nineteenth and twentieth centuries.

GER6608
Nineteenth Century Prose

Instructor: Horst Wittmann
Session: Winter Day

Course Description: A study of the novels from the second half of the nineteenth century (e.g., Goethe, Schiller, Stifter, Heine, Nietzsche, Richard). Focus on the relationship between the selected novels and the development of German prose style and the novel genre.

GER6696
Twentieth Century Prose

Instructor: Horst Wittmann
Session: Winter Day

Course Description: Main literary trends in Germany from the turn of the century to the present. A study of works by Gide, Musil, Mann, Kafka, Hesse, Mailer and Grass.

GER6699
Twentieth Century Prose

Instructor: Horst Wittmann
Session: Winter Day

Course Description: Main literary trends in Germany from the turn of the century to the present. A study of works by Gide, Musil, Mann, Kafka, Hesse, Mailer and Grass.
GERB 107 Features of Post-war German Literature

Exclusion: GERB 203
Prerequisite: GERB 100
Co-requisite: GERB 30

Course Description: This course will illustrate the resurgence of German literature after the disaster of National Socialism. The reading list includes works by Böll, Bachmann, Johnson, Wolfram, Weiss, Bochko and Mandek.

Instructor: Herst Wittmann Session: Winter Day

Content: Analysis and discussion of literary texts will focus on four major themes: 1. The relationship of collective guilt and individual responsibility. 2. Language and totalitarians, i.e. the Unlike of modern and a mechanized, affluent society. 3. The didactic use of history in modern theatre. 4. The influence of political, linguistic, and cultural conditions on the literature of the new Germany, as well as the emergence of the writer as the conscience of a new Germany.

Teaching Method: Three hours of lecture and discussion each week.

Evaluation: A number of short quizzes and one paper. Class participation will play a major role in final evaluation.

GERC 667 Cooperation and Composition II

Exclusion: GERB 104
Prerequisite: GERB 104

Course Description: Emphasis will be placed on refining the skills of oral and written composition, of textual analysis and translation.

Instructor: H. Olenendorf Session: Winter Day

Content: This course is a continuation of GERB 104, there will be some new kinds of language exercises, selected according to the students. Themes for discussion and composition will be chosen from a wider range of credits. At the end of the course, the student should be able to write and converse in idiomatic German with a high degree of fluency. He should be able to translate with ease texts of some complexity into both English and German.

Teaching Method: Three hours of informal, yet structured discussion each week. The language spoken in class is German.

Evaluation: Evaluation is based on frequent written assignments and a number of quizzes. The degree and level of class participation will play a major role in determining the final grade. There will be a final examination.

GERC 115 Introduction to Middle High German

Exclusion: (GERB 212 or GERB 213)
Prerequisite: GERB 212 or GERB 213

Course Description: The structure of the Middle High German language, illustrated through selected works of the literature.

Instructor: J.R. Mason Session: Winter Day

Teaching Method: Class discussion of course material.

Evaluation: Three one-hour tests, one two-hour test (paper and oral), and evaluation of participation in class discussion. Subject to approval of the appropriate committee, a body, there will be no final exam in this course.
GREEK

Courses are offered in introductory Greek (GEB201 and GEB210) and Greek literature of the classical period (GEB201, GEB210, etc.). For further information see under Classical Studies.

GERMAN

Courses not offered in 1978-79:

GEB357/S Structure of German
Exclusion: GEB210F/S
Prerequisites: (GEB111) or GEB20
Corequisite: GEB204

GEB245Y The Development of German Drama
Exclusion: GEB245Y

GEB247Y The German Novel from Goethe to Grass
Exclusion: GEB247Y

GEB255P German Literature before 1775
Exclusion: GEB255P
Prerequisites: (GEB111) or GEB20
Corequisite: GEB204

GEB250P Nineteenth Century Drama
Exclusion: GEB250P
Prerequisites: (GEB111) or GEB20
Corequisite: GEB204

GEB255P Twentieth Century Drama
Exclusion: GEB255P
Prerequisites: (GEB111) or GEB20
Corequisite: GEB204

GEB275P Modern German Poetry
Exclusion: GEB275P
Prerequisites: (GEB111) or GEB20
Corequisite: GEB204

GEB217Y Classical
Exclusion: GEB217Y
Prerequisites: (GEB111) or GEB20
Corequisite: GEB204

GREEK AND HUMAN HISTORY

The following courses are offered this year:

GEB401 - Greek History from the Bronze Age to the Death of Alexander
GEB402 - Roman History from the Eroded to Nero
GEB407 - Studies in Roman History: Pompel

For further information see under Classical Studies.
The study of History is intended to enhance our understanding of man in society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic: its methods draw from all forms of scholarly endeavour. History courses, therefore, can play a part in a number of interdisciplinary programmes and can serve as an adjunct to courses in Politics, Philosophy, Literature, Economics and Sociology.

The History programme combines a variety of approaches and teaching methods in order to satisfy a number of purposes. Comprehensive courses (HIS201-HIS202) both provide a foundation in their areas and serve as preparation for more detailed studies. In advanced courses (HIS301-HIS309) students investigate more specific areas or periods or problems. Colloquium seminars require students to make close and thorough studies of primary sources and other evidence and to present their findings in discussions and in a major paper. Sequences of courses at all levels are available in the following areas: Modern European, Modern British, American, Canadian, Modern European, Russian and Ancient Greek and Roman.

Students are strongly advised to enrol in HIS201 early in their academic programmes and to enrol in no more than two C-level courses or their equivalent in any one academic year.

MAJOR PROGRAMMES IN HISTORY

Supervisor of Studies: A.W. Shaye

Students must complete a minimum of nine full courses in History HIS or QMUS, including HIS201 and five advanced courses (HIS301-HIS309, HIS305/6/HIS307). HIS300 and 400 level courses on the S. George program (or other) at least two must deal with some period prior to the year 1815 (see following list of pre-1815 courses). In addition students are required to take courses in the history of at least three different areas (Eastern European, Medieval, European, African, and to take two advanced with the supervisor of studies as soon as possible.

Pre-1815 courses

List A

Full-year courses exclusively within 4 period before 1815

GMB211Y: History of Greece from 2000 B.C.
GMB221Y: Greek and Roman History from the death of Alexander
GMB231Y: Roman History from the death of Augustus to Nero
GMB241Y: Studies in Greek History I
GMB251Y: Studies in Greek History II
GMB261Y: Studies in Roman History
GMB271Y: Europe in the Middle Ages
GMB281Y: Europe in the Renaissance Era, 1500-1650
GMB291Y: Society in Early Modern Europe, 1500-1600
GMB311Y: Europe under the Enlightened Despotism
GMB321Y: Europe, 1400-1600
GMB331Y: The Beginning of France: Constantine to Charles V
GMB341Y: The European Mentality in the Early Modern Period
GMB351Y: The American Colonies and the British Empire
GMB361Y: The Crusades

List B

Half-year courses exclusively within a period before 1815

GMB222P/3: Ancient Historiography
GMB232P/3: Revolutionary America 1760-1790
GMB242P/3: Old Europe

List C

Full-year courses covering a period before 1815 in the first half of the year (equivalent to half-year course credit)

GMB201Y: The European World
GMB202Y: Russia from the Thirteenth Century to the Present
EN270Y1 History of the United States

Course description: Major themes from the Revolution to the present, including independence, political organization, political parties, territorial expansion, nationalism and sectionalism, reform movements, the slavery and civil rights question, the response to industrialization, progressivism, and the United States as a world power.

Instructor: A.M. Shapin/M.N. Dick  Session: Winter Day and Evening

This course is intended to give students a general knowledge of the outline of U.S. history and to introduce them to the major debates with which serious historical literature in concerned. It is designed to serve as a self-contained course for those whose major interests lie elsewhere, as a foundation for more advanced courses in American history, and as a background for courses in American politics or literature.

Organization and evaluation: Two lectures per week in which there will be time for questions. One tutorial per week, usually devoted to exploring some particular problem based on the assigned readings. Examinations at the end of each term will be worth a total of 50% of the final grade; an essay in each term and participation in tutorials will be evaluated to determine the other 50%.

EN280Y1 Britain from the Eighteenth Century to the Present

Exclusions: (EN281Y1); (EN282Y1)

Course description: 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.

Instructor: J. Kenyon  Session: Winter Day

Contents: 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 against the one committed to those of evangelical humanitarianism. It will also consider the British involvement in the eighteenth century the British have abandoned, their imperial rule and have commenced on the establishment of a welfare state.

Teaching Method: Lectures and tutorials

Evaluation: 2 essays 1 final examination
HISTORY Europe in the Middle Ages
Course Description: An introductory course covering Western Europe (excluding Britain) from the late Roman period to the fifteenth century. A chronological survey of economic, political, religious, and social developments.
Instructor: M. Cervantes Session: Winter Day
Content: This course is intended as a foundation for further studies in medieval history, as an accomplishment to courses in Medieval European art, literature, and philosophy; and as a completion examination of the medieval past for interested students. Particular attention will be paid to 1) the continuity between the Roman, Medieval, and Modern periods; 2) the progressive settlement of Europe; 3) the development of European culture and 4) the intellectual foundations of the post-medieval era.
Organization and Evaluation: Two lectures and one tutorial per week. The exam (one per term) will constitute 50% of the final grade; tests and examination will make up the rest.

HISTORY Introduction to Canadian History
Exclusions: HIST 205, HIST 206
Course Description: Exploration and settlement: the institutions and life of New France; the British Conquest and its salient; the impact of the American Revolution on British North America; development of the British colonies in North America; the American Revolution and the development of the new state of Canada.
Instructor: W. McNicoll/Robertson Session: Winter Day
Teaching Method: Two lectures and one tutorial group per week. Essays, book reviews, and oral presentations required in each term.
Evaluation: Class participation, essays, and other written assignments, mid-year and final examinations.
Preparatory Reading: W.L. Morton, The Kingdom of Canada; D. Creighton, Dominion of the North.
HIS100Y  Germany in the Nineteenth and Twentieth Centuries

Prerequisite: HIS100

Course Description: A thematic treatment of German history from the end of the Holy Roman Empire to the present, concentrating on the social, economic, and cultural interpretations of Germany’s political experiences.

Instructor: N. Isckelnis  Session: Winter Day and Summer

Content and Organization: Beginning with the emergence of Prussia as a European power and with social and intellectual development in the 19th century, and concluding with a comprehensive treatment of the present-day realities, the course focuses largely on the problems Germany, east and west, the course focuses largely on the political, economic, and social interaction of industrialization, the attitudes accompanying economic and social reform, and the economic costs of the modernization of a 'beloved' society. The economic costs of the modernization of a 'beloved' society and the economic costs of the modernization of a 'beloved' society are some of the important broader issues dealt with in this course.

Teaching Method: Two consecutive hours of lectures and one hour of library use per week. A set of prescribed readings from primary and secondary sources will be assigned, but extensive further reading is essential.

Evaluation: Tutorial participation, two term papers, and a final examination are required.

HIS120Y  Europe Under the Enlightened Despots, 1700-1789

Prerequisite: HIS100Y  Co-requisite: HIS200Y

Course Description: An examination of the ideals of the Enlightened Despots against the background of the social and political reality of Europe in the eighteenth century. Emphasis will be placed on the acceptance of the Enlightenment and the social, economic, and intellectual milieu which emerged from the second term. The Enlightenment ideas to the social, economic, and political life of the eighteenth century will be examined.

Instructor: E.M. Overton  Session: Winter Day

Content: In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual milieu which emerged from this period. In the second term the attempts of the so-called enlightened despots to apply Enlightenment ideas to the social, economic, and political life of their states will be examined.

Teaching Method: Lectures and tutorials

Evaluation: 2 essays (3000-4000 words), 1 final examination.

HIS221F  Frontier Communities in the British Empire: The South African Model

Prerequisite: HIS100

Course Description: A comparative study of the influences of European colonization of new nations. Major issues such as settlement, class structures, race relations, democracy and nationalism, and relations with the metropolitan power, are considered. The main emphasis will be on the history of South Africa.

Instructor: J. Kenyon  Session: Winter Evening

Content: In South Africa the problems of a frontier society have been compounded by the existence of three races, African, Afrikaners and British. The purpose of the course is to explore the success of the Afrikaners in establishing in the twentieth century an independent state, or rather, an independent republic based on their traditional ideal of apartheid. Moreover this was achieved in the face of major challenges from an alien British administration more concerned with imperial than South African interests, from missionary and colonial reformers who sought to plan the development of a South African society with very different values and standards and from the forces of economic imperialism set alive by the discovery of diamond and gold mines.

Teaching Method: Lectures

Evaluation: 1 essay, 1 final examination.

HIS222B  British Imperialism in India

Prerequisite: HIS100

Course Description: The impact of imperialism on India: the motives behind British Imperialism; the problems of administration; the transfer of power: non-colonialism.

Instructor: J. Kenyon  Session: Winter Evening

Content: Britain was to exercise authoritative power in India for over two hundred years from the middle of the eighteenth century until the transfer of power in 1947. During this period British society was to be transformed, and as extensively as was that of India. The problem for the historian is to measure the impact on India for good or ill of Britain whose own character being shaped in such a fundamental way. It is also necessary to understand the reaction of the Indian people to these developments and to examine in particular the controversy between those who believed that the struggle for freedom from imperial rule would result in the restoration of traditional Indian society and those who were fighting this struggle in order to achieve self-government in terms of the British system of parliamentary democracy.

Teaching Method: Lectures

Evaluation: 1 essay, 1 final examination.
HIS303Y The United States since 1870: The Response to Industrialism

Prerequisites: HIS303

Course description: How a nation dedicated to equality and individualism responded to the problems created by large-scale industrial organization. Social mobility, ethnicity, relations between government, labour and capital, social welfare, and the implications of industrial development for foreign policy are among the topics discussed.

Instructor: W. M. Dick

Session: Winter Day

Teaching Method: One double lecture and one tutorial per week

Evaluation:
- Two term papers
- Tutorial participation
- Final Examination

HIS347Y The Canadian Left, 1867 to the Present

Prerequisite: HIS347

Course description: An investigation of farrier, labour, and socialist movements since Confederation, their roots in the changing social structure, and their political manifestations. The emphasis will be on the 20th century, and attempts will be made to assess the significance of the international affiliations and or origins of the various movements, and to account for the unique character of the Canadian left.

Instructor: J.R. Robertson

Session: Winter Day

Teaching Method: One two-hour lecture and one one-hour tutorial per week

Evaluation: Written work will include a final examination and two research papers. See instructor for a detailed course outline.

HIS349Y Ontario History: the 19th Century

Prerequisites: HIS305, HIS306 or HIS309Y

Course description: The land; transportation; economics; social reforms; political parties; pioneers and immigrants; forces of international commerce and finance; cultural and religious developments.

Instructor: W.A. McKay

Session: Winter Day

Teaching Method: One lecture and one discussion group per week

Evaluation: Written work will include examinations, essays, and oral presentations.

Preparatory Reading:
- L. Gates: Land Policies of Upper Canada
- G. Craig: Upper Canada: The Formative Years, 1784-1841.
HIST41Y  The Beginnings of France: Constantine to Charlemagne

Prerequisites: Any one of HIST30, HIST38, HIST27

Course description: After a brief survey of the later Roman Empire in the west, the course will cover the period from the age of Constantine concluding with a study of the world of Charlemagne.

Instructor: J. Corbett  Session: Winter Evening

Contents: Major topics include: background (Roman Empire and Christian Church); The Age of Constantine; Life and Letters in late Roman Gaul (300-500 A.D.); the Kingdom of the Franks (500-600 A.D.); the World of Charlemagne. Special emphasis will be placed on social, economic and religious aspects of the period. Students will be expected to acquire a general familiarity with the literature on their topic area each term and present a paper on it, and to develop a personal view of the subject.

Teaching Method: One 2 hour lecture and one 1 hour tutorial per week. All the tutorials will be led by the lecturer personally. The lectures will give the necessary background information and some analysis, raising questions to be considered in the tutorials. My teaching style is informal; questions and discussions will be welcomed in lectures as well as tutorials. Students will be encouraged to consult with me about their reading and essays.

Evaluation: Essays and oral presentations (one of each per term) 64%; final written exam 36%.

Note: A detailed Course Outline and Bibliography are available on request.

HISC11F  Independent Studies

Prerequisites: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC11F and HISC21F and by 1 December for HISC31F. See History Supervisor of Studies for current application procedures.

Instructors: The History Faculty  Session: Winter Day

Contents: A directed reading course which provides qualified students with an opportunity to investigate an historical field which is of common interest to both student and instructor and which is not available for study otherwise. It is open only to students in the final year of their undergraduate programmes who have demonstrated a high level of academic maturity and competence.

Evaluation and Evaluation: Candidates must submit a written application and find a willing supervisor before the application dates. Students will undertake individual investigations and will meet regularly with the supervisor to discuss progress. They will complete a 7000-10,000 word paper for a term course and a 15,000-20,000 word paper for a year course. The paper will be read by the supervisor and at least one other member of the history faculty and there will be an oral examination conducted by the readers.

Interested students should contact Professor A. Sheps.

HISC14V  The European Mentality in the Early Modern Period

Prerequisites: HISC12, HISC13

Exclusions: HISC12, HISC13

Course description: This seminar will examine two major cultural developments: the witchcraft crisis and the scientific revolution, which occurred in this period in a not always congenial fashion. Students will do a major research project, based as much as possible on primary sources.

Instructor: J. L. Pearl  Session: Winter Day

Contents: The nature of belief in witchcraft and what it means for the society. The Scientific Revolution, including classical science and Copernicus, Galileo to Newton.

Teaching Method: Seminar

Evaluation: One or two research papers  Oral Seminar presentation Participation in class discussions

HISC17Y  European Society and Culture between the World Wars

Prerequisites: HISC11; one B-level course in History. A reading knowledge of one or more foreign languages, although not indispensable. Limited enrolment: 15.

Contents: An investigation of the impact of war, technology, economics, and totalitarianism on the social condition and thinking of Europe from 1914 to 1945.

Instructor: M. Evangelou  Session: Winter Day

Contents and organization: A two-hour weekly seminar in which regular readings and discussion are expected. In the first term, certain broad questions, including the problem of method, are discussed in order to establish an overview of the subject and to delineate the most significant questions and approaches. In the second term specific problems and individual research projects are pursued in detail.

Evaluation: A brief book review is required in the Fall Term. In the Spring Term students will present to the seminar for discussion the preliminary findings of their research, and will then submit a written paper at the end of the term. The research paper is the most significant piece of work in the course but a significant proportion of the final grade will be allotted for participation in the seminar.
H410Y Urbanization and Social Change in 19th Century England

Prerequisites: H5801

Limited Enrolment: 20

Course Description: A study of the new social environment created by the growth of cities in an industrial community.

Instructor: J. Kenyon

Session: Winter Day

Content: The aim of the course is to recreate the way of life which developed in the new cities of 19th century England and in doing so add to our understanding of our urban environment. It will focus on the major problems which cities shared in common with North America at the same time, and which have proved so difficult to solve: widespread poverty, overcrowded housing, deteriorating public health conditions and a rise in crime and disorder brought about by the traditional methods of social control to work in these new conditions. We shall see how this new city life affected social relationships such as the structure of the family, the role of women and children, the establishment of a class society and the development of a working class culture.

Teaching Method: Seminars

Evaluation: 1 book review
1 research paper

H413Y The American Colonies and the British Empire

Prerequisites: Any one of H5801, H5803, H5805, H5828 or H5838

Course Description: An examination of the origins of American society and institutions in the eighteenth century and their development in the nineteenth century, the origins, course and effect of the American War of Independence, the Constitution and their relation to Western political thought, and the impact of the Revolution on Britain, North America and Britain.

Instructor: J. S. Taylor

Session: Winter Day

Organization and Evaluation: A weekly two-hour seminar based on required and suggested readings. Discussion each week of particular topics and the historiographical and methodological debates about them. Class discussion, one brief class report and one essay (2000-2500 words) per term and a final examination will be required.

H414Y History of Canadian Social, Political and Historical Thought

Prerequisites: H7801, H7806

Course Description: The seminar will focus on the following themes: the role of intellectual assumptions apparent in contemporary discussion of Confederation; speculation on the destiny of the new nationality; the development of social consciousness and the social role of nationalism and regionalism; the social gospel; rural myths, a crisis of civilization; the social role of the intellectual, the development of Canadian conservative and socialist thought. The main sources will be the writings of journalists, clergymen, academicians, labour activities, novelists, politicians, farmers' spokesmen, historians and satirists.

Limited enrolment: 15

Instructor: I. B. Robertson

Session: Winter Day

Organization and Evaluation: Two one and a half hour seminars per week. General discussion and several oral presentations will be required of each student. Written work will consist of three book reports, one research paper and a final examination. See instructor for a detailed course outline.
HIS474Y  The Crusades
Prerequisites: HIST40Y and HIST57Y or a number of B-level History courses
Course description: This seminar will consider the crusades of the 11th through 14th centuries, both in Europe and the Holy Land, as a continuation of Christianity’s centuries-old struggle with paganism along its borders, as a form of colonial expansion promoted by an enormous growth of population in the 11th and 12th centuries, and as an expression of the common bonds of Christendom itself. The movement will be compared and contrasted with the foundation and activities of the military orders, particularly the Hospitaliers, Templars, Teutonic Knights, and associated orders in Spain and north-eastern Europe.
Instructor: M. Gervers
Session: Winter Day
Organization and Evaluation: One two-hour seminar per week. Two seminar papers (one each semester) will constitute 65% of the final grade; bibliographical reports and classroom participation will make up the rest.

HIS475Y  The Russian Intelligentsia
Prerequisites: HIS480 or HIS401 Exclusion: HIS518Y
Enrollment: 10
Course description: The historical importance of the intelligentsia in Russia during the nineteenth and early twentieth centuries is unparalleled in the history of any other country. Not a class, but yet a major intellectual, social and political force, the intelligentsia embraced the great thinkers of the Russian right and left from Dostoevsky to Lenin. A study of its origins, beliefs, role and personalities.
Instructor: E.W. Dowler Session: Winter Day
Content: In the first part of the course the nature of the intelligentsia in general will be discussed. The bulk of the course will consist of a detailed examination through the writings of some of the major Russian intelligentsia, including Dostoevsky, Turgenev, Chekhov, Gorky, Tolstoy, and others. In concluding sessions, the fate of the intelligentsia in the Soviet Union, and the new, 20th-century expositions of the word will be explored.
Teaching Method: Seminar
Evaluation: 2 essays (4000-5000 words); 1 examination.
Humanities

Discipline Representative: K. Thurl

The Humanities are concerned with man's never-ending reflection on the human condition, with development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

Courses in the Humanities are offered by the various disciplines which comprise the Humanities Division. However, the student who wishes to explore the Humanities outside the traditional disciplinary framework is encouraged to consider the courses listed below. For the most part, they offer an alternative to examination from within current precise national, historical and disciplinary boundaries, opting instead to restructure subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly rewarding, enriching, and self-renewing experience, a more unified approach to literature, an art or aspects of a loose historical period, or a movement of broad cultural relevance.

Roughly speaking, HUM listings may be divided into 5 categories:

1) Interdisciplinary courses - i.e. courses that bring together aspects of human knowledge often taught in separate disciplines.
2) Interscience courses - i.e. courses not restricted to a single national boundary in considering aspects of literature.
3) Thematic courses - i.e. courses beyond the scope of other single disciplines at Kearsborough College.

In addition, for senior students, both the Humanities Seminar and the more ambitious Individual Study Plan provide a challenging alternative to a conventional program of study.

THE HUMANITIES PROGRAMME

Supervisor of Studies: P. W. Gough

The Humanities Programme is designed for the student who wishes what has been known as a "liberal education". The Programme will seek to develop the critical intellectual skills of the student and to acquaint him with basic forms of approach and analysis in several areas of human endeavor. It will accomplish this by developing a coherent group of courses, within the framework established below, for each student registered in the Programme. Each student will belong to a Programme Committee which will supervise his studies. A booklet on the Humanities Programme is available in the Office of the Division of Humanities.

Taken as part of a fifteen course degree, the student's course of study must include the following:

1) HUM101
2) At least two consecutive courses in a language foreign to the student.
3) At least one course in each of the three Humanities areas which follow:
   a) Language and literature: Classics, Drama, English, French, German, Humanities, Italian, Linguistics, Russian, Spanish;
   b) Historical Studies: Fine Art, Greek and Roman History, History, Latin, Greek, Linguistics;
   c) Philosophical Studies: Classics, Humanities, Linguistics, Philosophy.
HUM 364Y
Introduction to the Study of Religion

Course description: The phenomenon of man's religious experience and its cultural expressions: introduction to the academic study of religion, including themes appearing in the classical religious traditions as well as in contemporary quasi-religious movements. Critical examination of various definitions and methods employed in the study of religion.

Instructor: S. Ripsman
Session: Winter Day

Content: The first term concentrates on social and corporate aspects of religion, as specific traditions are differentiated in varied cultural environments and develop through changing historical circumstances. The second term's work investigates aspects of individual experience and belief including mythical and symbolic expressions as well as doctrinal formulations and the philosophical critique of religion. "Para-religious" alternatives and traditional religion in the modern world are also examined.

Method and Evaluation: Lecture-discussions on general themes form, together with reading, the basis of the final examination. Tutorials on specific topics provide the context for up to two short papers each term.

For reading prior to the course, Susan Smith, The Religions of Man, is suggested.

HUM 461F
The Emergence of Modern Prose

Course description: A study of the "Crises of Consciousness" and its impact on the creative imagination of a number of European writers at the turn of the century. The following authors will be considered: J. Joyce, V. Nabokov, M. Proust, J.P. Jacobson, H.V. Hofmannsthali, K.M. Riley, F. Musil, V. Kafka.

Instructor: Horst Wittman
Session: Winter Day

Content: The course attempts to show the reasons for and the methods of the transformation of emotional reality into fictional reality as they relate to the philosophical, scientific, and technological development of the time. The evolution of narrative techniques as well as the use of language and silence the foundations of modern prose will be laid here.

Method and Evaluation: A mixture of lecture and discussion sessions.

Evaluation: Short quizzes and one paper.

HUM 492S
Disaster and the Literary Imagination

Course description: An exploration of the historical impact of natural and man-made, totalitarian and war on the post-war literary imagination of Soviet Russian and West German writers at the meta-literary levels of expression and reception. The course will also examine the social and cultural relevance of creative writing in response to periods of social crisis.

Instructor: C. V. Promareff
Session: Winter Day

Content: Five authors will be studied: N. Burdorff, The Man Outside; Ch. Altmanov, The White Stag; C. Z. Gren, The Ten Days; T. Pasternak, Doctor Zhivago; E.T. Wessich, The Disappearing Proof.

Teaching Method: Lecture and discussion

Evaluation: One major paper, one final exam; class participation.

HUM 494F
The European Experience: Man and Society in the Twentieth Century French and Italian Novel

Course description: Currents and developments in the cultural fabric of western Europe via readings in the narrative fiction of 2 traditional yet evolving societies representative of much of the modern continental "experience", and poised in anticipating their present state and future structure.

Instructor: S. Mittler
Session: Winter Day

Content: An inquiry into the growth of modern French and Italian society will be made on the basis of selected readings sympathetic to the individual's relationship to his environment, his moral or philosophical reactions and corresponding innovations in narrative form. The approach will be introductory; required works will be read in translation, although students with reading knowledge of French and/or Italian will be encouraged to read in the original.

Method: 2 hours a week of lectures and discussion.

Evaluation: To be decided by in-class discussion on the basis of class participation; 1 class assignment each term; 1 term test and 1 final exam.

HUMB105
Orpheus: The Quest for Beauty
Session: Winter Day
Course description: An interdisciplinary seminar, studying the myth of Orpheus as a recurrent motif in art, religion, literature, music and film. Materials (to be read in translation) will include: Vesti, Serenata IV; Ovid, Metamorphoses 4 and 11; Polignani, Storia d'Orfeo; Sir Gregory Bangs, Orpheus and Eurydice, Calderon, El Apolo de Orofeo; Wateower, Orfeo Italiano, Orfeo Orefebre, Orfeo in the Underworld; Nilus, Sonata to Orpheus; Amoluk, Eurydice.
Instructor: John Wardan with help from other members of faculty
Objectives: To try to understand the nature of myth in art through a study of a single myth, and of its changes and developments. The course should be of interest to students of Classics, Religion, English, Modern Languages, Fine Art, Music and Anthropology.
Content: A study of the early form of the myth in the Classical world. In poetry, verse-painting and sculpture of the religion (Orphism) that sprang from it, and its influence on early Christianity; Christian allegory at work on the myth in the Middle Ages; the myth in early English poetry: the rediscovery of the Classical world in the Renaissance: Orpheus in opera: a brief glance at the romantic Orpheus, and at Orpheus in our time.
Method: One two-hour session each week consisting of an oral presentation (by me, a student or a visitor). There will be considerable use of slides, records and, hopefully, films.
Bibliography: Most of the basic texts will be provided in a requested booklet for which there will be a small charge. Two important secondary sources are H.R.C. Guthrie, Orpheus and Greek Religion, London, Methuen and Co., 1935. J.B. Fraenkel, Orpheus in the Middle Ages, Harvard, 1972.
Evaluation: Details will be worked out with students, but the year's work will include an oral presentation, a test, and a major essay.

HUMB205
Utopia: From More to Milton
Course description: A study of major schemes for the total improvement of mankind and the solution to radical evils in society. The millennium vision and the utopian idea, anti-utopias, and experiments in communal living. Practical utopianism and utopian thought.
Instructor: William Graham.
Session: Winter Day
Content and Evaluation: The "real title" of this course is, Utopia from More to Milton. Why do people make utopias? Because they must? Is utopia an escape from reality or a plan for a better reality? The topic is an important one, but in making it more practical, no students should bring their own interests and experiences with them when the topic is in the hands of the course.
Lectures, discussions, and experiments. Topics of specialization to be chosen by students. Two papers, differing in content and purpose, and an in-class reading test will comprise the term work. One paper is to be analytical and analytical, relating to utopian authors, those from several utopias, etc. The other paper is to be creative and speculative, an article on an utopia or dystopia. Forms of expression other than the written word are welcome instead of papers. Student participation is essential.

HUMB320F
App of Particles
Session: Winter Day
Instructor: PAB001
Course description: An exploration of the golden age of Athens (second half of the fifth century B.C.) through its literature and art.
Instructors: John Wardan and others
Objectives: To introduce students to Athens and its culture; to raise questions for discussion about the development of its literature, architecture, and political institutions; to learn to appreciate the classical style.
Content: A history of Athens during this period, including the development of democracy, the confrontation with Sparta, and the rise of the sophists. An examination of drama, including the study of several plays. Architecture, sculpture, and vase painting. Religion in the city state, including festivals, the mysteries, gods and goddesses.
Teaching Method: It is the intention that all three instructors will contribute. It is planned that the last four times in the semester they will meet as a panel to discuss a given topic. Student involvement in this discussion is essential for its success. Classes two hours per week.
The Age of Nero

Prerequisites: None

Course description: Glory and decadence: a close look at Nero's Rome. Society and culture under the Roman Emperor as reflected in its literature and institutions; Nero as builder and planner; the conflict of religions: the growth of Gnosticism.

Instructors: T. McDonald, J. Courbet Session: Winter Day

Objectives: To provide an introduction to imperial Rome, a controversial Emperor, and the striking cultural milieu over which he claimed to preside. To ask what ideas are expressed in Herodian art, and how far the Emperor controlled their expression. To consider how far the culture — or counter-culture — of the court shaped, or was shaped by, the cultural forces of a largely bi-cultural Empire.

Content: Nero's Rome, as it is reflected in the art, architecture, 2nd literature of the day, and in the lively — and often lurid — accounts of later Roman authors. Study in general, with selections from Tacitus, Suetonius, Petronius, Sulpicius Severus, Flavius the Younger: study of the art and architecture of the period.

Teaching method: Two hours weekly lectures, with opportunity for discussion.

Evaluation: To be determined.

Beyond Consciousness

Prerequisite: One course in psychology, philosophy, or literature.

Course description: 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.

Instructors: W.J. Bonnard Session: Winter Day

Content: In 1978-79, Beyond Consciousness will deal with the forgotten language of myth and dream and its possible translation into analytical psychology, on the one hand, and a mythological approach to religion and philosophy, on the other. Depending on the availability of translations, texts will be chosen from Freud, Jung, Adler, Fromm, Eliade, Otto, Schultz, Durand, among others.

Bibliography: A detailed bibliography for this course will be provided on the first day of class.

Evaluation: One major essay or research paper: one take-home or class test (or examination); classroom assignment(s).

Italian Cinema

Prerequisites: None

Course description: An examination of the concept of higher education and the nature of the university from its medieval origins to the present, including a review of the historical development of this institution in Europe and North America, as well as discussion of current issues.

Instructor: John Wiikness Session: Winter Day

Content: In the fall term, we will review the historical development of the university in Europe and North America and the emergence of an "idea of the university". In the spring term, attention will be given to issues in higher education such as research and teaching, university and society, professional and liberal education... Teaching Method: The class will normally meet once a week for two hours for the presentation and discussion of topics, the selection of which will involve active and sustained participation by all members of the group. Written assignments are expected to vary according to individual interest and need; there is no prescribed text.

Evaluation: No final examination. Suggested basis: two term papers, book reviews, seminar presentations.
Prerequisites:
Permission of the Division of Humanities Committee on Individual Study.

Course description:
An opportunity for advanced students to spend a year following their own studies under the supervision of a committee of faculty drawn from the various disciplines within the Division of Humanities. Students will be expected to produce major papers or projects in at least two areas, and will take an oral examination at the end of the year. Those interested in enrolling should contact the Division's Chairman by the end of May 1978. (For a year of individual study, students must enroll in all five courses. Those who wish to take Individual Studies should consult disciplinary listings.)

Courses not offered in 1978-79:

HUMD04I The Bloomsbury Group
Prerequisites: Normally three courses selected from English, History, Sociology, or a course in any of the liberal arts, e.g., English literature

HUMD05F Fantasy in Harry and Middle Earth

HUMD07G Hercules: Man of Action

HUMD11I "The Odyssey Factor"

HUMD15F Atlantis

HUMD21F/S Love and Friendship: The Views of the Greeks and Romans
Exclusion: (HUMD04)

HUMD21F/H The Age of Augustus

HUMD21F/E The Age of Honor

HUMD268 Fantasy Literature II
Prerequisites: HUMD05

HUMD275 Science Fiction
Italian

Discipline Representative: Antonio Francesechetti

Scarborough College offers a wide range of courses on the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITA101 or ITA111. Students with Grade 13 Italian (or equivalent) take ITA201 which is the prerequisite for literature courses as well as for the more advanced language courses. In both courses, emphasis is given to the spoken and written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as an adjunct to his plan of study or as an enrichment of his total program. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, or Spanish literature.

Students enrolled in Italian, some of whom may later wish to enroll in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

Students should consult Italian as well as the Modern Languages and Literatures entries in the Major Programmes section of the College Calendar.

Students are not allowed to take any A level courses in Italian while taking or after completing any B level course in Italian.

Students may be excluded from any given course if their knowledge of Italian is deemed by the instructor to exceed the level of the language in that course.

MAJOR PROGRAMME IN ITALIAN

Supervisor of Studies: Antonio Francesechetti

Students are required to complete at least nine full courses (or equivalents) in Italian, including the following:

• ITA301Y Dante and Medieval Culture
• One year course (or equivalent) on the Renaissance
• One year course on Eighteenth and Nineteenth Century literature
• One year course (or equivalent) on Nineteenth and Twentieth Century literature
• One half year course on the history of the language

Transfers: Advanced Composition
Transfers: Practical Translation
Transfers: Language Practice

Language requirements will be waived in the case of students judged to have highly advanced knowledge of Italian, by permission of Supervisor of Studies. Equivalent courses in literature will be substituted. Students are strongly advised to discuss their programme as soon as possible with the Supervisor of Studies.

ITALIAN

Introductory Italian

Exclusion: ITA111

Course description: An elementary course for students with no knowledge of Italian. Elements of Italian grammar, with attention given to oral practice. Short contemporary texts will be studied.

Instructor: Dennis McLaughie

Session: Winter Day

Comment of the instructor: This course is not open to students who have background knowledge of standard Italian or an Italian dialect. Importance is given to the acquisition of a standard Italian pronunciation to developing oral/spatial skills for general purposes: to the mastering of the fundamental grammatical structures of the language for reading and writing as well as for speaking. The five hours weekly of class time will be divided among the practice of formal dialogues, free conversation, explanations of grammar and exercises. There will be regular written assignments and exercises to prepare at home. A programme is also provided in the language laboratory for those who wish to make use of it. As early as possible literary readings and articles of general interest will be introduced for the purpose of expanding vocabulary, reinforcing the understanding of grammatical structures and to provide material for discussion in class.

Evaluation: Class participation (40%); monthly written exams (40%); home assignments (20%).

ITALIAN

Conversation I

Corequisite: ITA201

Course description: An elementary course in conversation designed to provide students with no prior knowledge of Italian, with an opportunity for practical application of the rudiments of the language. Topics selected for discussion will aim at a graduated and controlled approach to Italian. Not normally open to native speakers except by permission of instructor.

Instructor: Antonio Francesechetti

Session: Winter Day

Context and Teaching Method: Relevant current topics and areas of interest to the students will be discussed, such as facets of Italian and Canadian culture, aspect of politics and various social problems. The three hours weekly will focus on discussions of the various chapters of the textbook. As soon as the students acquire a certain degree of proficiency in the language, oral reports will be introduced on subjects chosen by the students.

Evaluation: Oral report 25%; oral final exam 25%; class participation 50%.

ITALIAN

Conversation II

Corequisite: ITA301 or ITA311

Course description: A continuation of ITA301.

Instructor: Dennis McLaughie

Session: Winter Day
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Instructor</th>
<th>Session</th>
<th>Content</th>
<th>Teaching Method</th>
<th>Evaluation</th>
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</thead>
<tbody>
<tr>
<td>ITALI11</td>
<td>Intermediate Italian</td>
<td>Course Description: An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idioms and special constructions focusing on Italian culture and civilization.</td>
<td>ITALI11</td>
<td>Dennis McNuliffe</td>
<td>Winter Day</td>
<td>Graded</td>
<td>Three hours of lectures per week.</td>
<td>Class participation (40%); oral reports (30%); final oral examination (30%).</td>
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<tr>
<td>ITALI03</td>
<td>Intermediate Italian (See Summer Language Institute)</td>
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<tr>
<td>ITALI03F</td>
<td>Intermediate Conversation I</td>
<td>Course Description: An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idioms and special constructions focusing on Italian culture and civilization.</td>
<td>ITALI11</td>
<td>Dennis McNuliffe</td>
<td>Winter Day</td>
<td>Graded</td>
<td>Three hours of lectures per week.</td>
<td>Class participation (40%); oral reports (30%); final oral examination (30%).</td>
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<td>ITALI03</td>
<td>Intermediate Italian (See Summer Language Institute)</td>
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<tr>
<td>ITALI25</td>
<td>Intermediate Conversation II</td>
<td>Course Description: A continuation of ITALI03</td>
<td>ITALI11</td>
<td>G. Katz</td>
<td>Winter Day</td>
<td>Graded</td>
<td>Three hours of lectures per week.</td>
<td>Class participation (40%); oral reports (30%); final oral examination (30%).</td>
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<tr>
<td>ITALI12</td>
<td>The Twentieth Century Novel</td>
<td>Prerequisite: ITALI01</td>
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<td>ITALI01</td>
<td>Elementary Italian</td>
<td>Course Description: An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.</td>
<td>ITALI01</td>
<td>G. Katz</td>
<td>Winter Day</td>
<td>Graded</td>
<td>Three hours of lectures per week.</td>
<td>Class participation (40%); oral reports (30%); final oral examination (30%).</td>
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<tr>
<td>ITALI01</td>
<td>Elementary Italian</td>
<td>Course Description: An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.</td>
<td>ITALI01</td>
<td>G. Katz</td>
<td>Winter Day</td>
<td>Graded</td>
<td>Three hours of lectures per week.</td>
<td>Class participation (40%); oral reports (30%); final oral examination (30%).</td>
</tr>
<tr>
<td>ITALI01</td>
<td>Elementary Italian</td>
<td>Course Description: An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.</td>
<td>ITALI01</td>
<td>G. Katz</td>
<td>Winter Day</td>
<td>Graded</td>
<td>Three hours of lectures per week.</td>
<td>Class participation (40%); oral reports (30%); final oral examination (30%).</td>
</tr>
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</table>
ITAL312F
Prerequisites: ITAL301 (or ITAL302)
Course description: A survey of Italian literature, from the Middle Ages to the present.
Instructor: D. McElhiffe Session: Winter Day
Content: This course is designed to provide the student with a general background in Italian literature. Major representative figures of Italian literature will be studied: Dante, Petrarca, Boccaccio. Special attention will be given to major literary movements: "Olden Still Noble", the Renaissance, Romanticism etc.
Teaching Method: Three hours of lectures per week with opportunity for class discussion of the work studied.
Evaluation: Essays written during the year 50%; class tests 20%; class participation and discussion 30%.

ITAL312P
Petrarch and Boccaccio
Prerequisites: ITAL301 (or ITAL302)
Course description: The Canzoniere and the Decameron. The rise of Humanistic thought and culture, the beginnings of the Renaissance.
Instructor: C. Katz Session: Winter Day
Type of course: This is an advanced course which requires a good knowledge of Italian, as no textbook is used for the specialized programs in Italian.
Objectives: The aim of this course is to provide an insight into two writers, who were representative of their times and influenced deeply by contemporary and subsequent literatures not only in Italy, but throughout Europe.
Content: This course will cover parts of the Decameron by Boccaccio, a selection from the Canzoniere by Petrarch. II Decimo and the first cantica will be studied. The Decameron and the Canzoniere will be set in the context of their own times (14th and 15th century) as well as of the present. Boccaccio's multi-faceted human comedy and Petrarca's exploration of his own soul will be examined not only as the product, one of the Middle Ages and the other of the Renaissance, but also as two ways of looking at love, life and religion which can still be appreciated and understood by contemporary writers.
Teaching Method: Three hours of lectures per week.
Bibliography: Canzoniere by Petrarca, Trionfi by Petrarca, Il mio Amor by Petrarca, Decameron by Boccaccio.
Evaluation: Attendance and class participation, 20%; Essay(s) written at home, 50%; Final examination, 30%.

ITAL360
Lyric Poetry of the Renaissance (from Politiano to Michelangelo)
Prerequisites: ITAL301 (or ITAL302)
Course description: An introduction to the study of the Italian Renaissance.
Instructor: Antonio Francoschi Session: Winter Day
Content and Teaching Method: This course intends to acquaint the student with the major figures of Italian literature of the Renaissance and with the culture which gave rise to this poetry. Works of Politiano, Landino de' Medici, Poliziano, Michelangelo and Stampa will be studied in the context of their lives and times. Particular attention will be given to the theme of nature and to the development of the concept and representation of love. There will be three weekly hours of lectures with discussion. Class attendance is highly recommended and class participation and student's comments strongly encouraged.
Evaluation: Term tests 40%; class participation 30%; oral report 30%.
Prerequisites: ITA201 (or ITA202)
Course description: Reading and analysis of selected works, with attention to Tasso's Neo-Classicism, and characteristics of Italian literature.
Instructor: G. Katz Session: Winter Day

Type of course: An advanced course in Italian, one of the options for the specialization programme in Italian.

Objectives: The student should acquire a certain knowledge of the work of Tasso and Leopardi, two Italian poets of the 14th century, and be able to relate it both to the society of their time and to the present society.

Content: This course will cover the novel "Le ultime lute di Isacco Gritti" by Porcile, the poems I Scolopi, Sommetti and La Graxia by Porcile, some of the Cantos by Leopardi and some of his Operette Morali. The works of these two writers will be examined in the light of contemporary history and literary movements: that is they will be related to the Romantic movement in Italy and to the struggle for the unification of Italy in the Risorgimento. More generally the course will be further divided into: "fear" vs. "faith", "women" vs. "country", "Classical Tradition" and whether their views were typical of their time.

Method: Three hours of lectures per week.

Bibliography: Prose e Poesie, by Odo Porcile; Canti e Operette Morali, by Giacomo Leopardi.
Evaluation: Attendance and class participation, 20%; Essay(s) written at home, 50%; Final examination, 30%.

Prerequisites: ITA201 (or ITA202)
Course description: A study of Mannoni's lyric poetry, tragedies and I promessi sposi.
Instructor: S. Mittler Session: Winter Day

Content: An examination of selected examples of Mannoni's critical, philosophical and poetic output, in particular Adonci, Il Conte Di Carnaglione and Lettera A.M. Chiaure, the first part of the Odissea, translated by R.M. Poli and analysis of Mannoni's famous novel, I Promessi Sposi.
Teaching Method: 3 hrs. a week of lectures and discussion.
Evaluation: To be decided in-class discussion on the basis of class participation, 1 class assignment, 1 major essay and a final exam.

Bibliography: A. Mannoni, I Promessi Sposi. Further material supplied by instructor.
Courses not offered in 1978-79:

ITAB045/6 Advanced Composition
Prerequisites: ITAB02

ITAB055/6 Practical Translation
Prerequisites: ITAB02

ITAB135/6 Modern Italian Poetry
Prerequisites: ITAB02

ITAB155/6 Pirandello and the Italian Theatre of his Time
Prerequisites: ITAB02

ITAB185/6 Italian Theatre from 1930 to the Present
Prerequisites: ITAB02

ITAB315/6 Aspects of Italian Thought in the Fifteenth and Sixteenth Centuries
Prerequisites: ITAB02

ITAB345/6 The Renaissance Epic
Prerequisites: ITAB02

ITAB355/6 Italian Sixteenth Century Theatre
Prerequisites: ITAB02

ITAB365/6 Reformation and Baroque Literature
Prerequisites: ITAB02

ITAB415/6 Italian Eighteenth Century Theatre
Prerequisites: ITAB02

ITAB455/6 The Nineteenth Century Italian Novel in Transition
Prerequisites: ITAB02

Joint Courses

The following courses are offered jointly by these disciplines:

**Biology and Chemistry**

JMC B355 Introductory Biochemistry
JMC B545 Laboratory in Chemistry

**Computer and Economics**

JCE B545 Industrial Relations
JCE B717 Analysis for Decision Making I
JCE B736 Analysis for Decision Making II
JCE C575 Corporate Finance

**Economics and Sociology**

JCE B77Y Organizational Behavior

**Humanities and Drama**

JHD B12Y Introduction to Cinema

**Humanities and Italian**

JPH B20Y Italian Cinema

**Linguistics and Psychology**

LJP B55P Psycholinguistics

**Mathematics and Computer Science**

JMC C51P Combinatorics
JMC C61S Applied Algebra
JMC C71S Numerical Methods

**Mathematics and Philosophy**

JMP B59P Symbolic Logic
JMP B51S Symbolic Logic II

**Physics and Astronomy**

JPA C10Y Relativity and Cosmology

**Physics and Mathematics**

JPM C42S Advanced Classical Mechanics
JCBM34V
Introductory Biochemistry

Exclusions: (BIOC04); (BIOB35); (CHMB35); (CHMC04)
Prerequisites: BIOA03; CHMB05

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

Instructor: J. Ould Session: Winter Day

Content: 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.

Method: Two 1-hour lectures per week

Bibliography: The text used is: biochemistry: the molecular basis of cell structure and function - By A. L. Lehninger, Worth Publishers Inc.

Evaluation: Two 2-hour lecture exams
One 2-hour Christmas exam
One final exam.

JCBM36H
Laboratory in Biochemistry

Exclusions: (BIOB36); (CHMB36)
Prerequisites: BIOA03; CHMB05
Corequisites: JCBM35

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

Instructor: J. Ould Session: Winter Day

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

Teaching Method: 3 hours of laboratory work plus 1 hour of lecture each week.

Bibliography: No text required but it is suggested that students obtain a copy of Biochemistry by A. L. Lehninger.

Evaluation: Students will be evaluated on their performance in the laboratory, lab reports, and examination. (2-hour exam at Christmas and a final exam.)
JCR873Y: Analysis for Decision Making II

Exclusions: COMB247, ECGB27
Prerequisites: ECOB1, JCR872

Course Description: A continuation of JCR872P with less emphasis on deterministic, linear models. Course content will be determined by the instructor and will usually include several of the following: decision making under uncertainty, inventory theory, simulation, non-linear programming, allocation of risk-bearing.

Instructor: T.H.A. Session: Winter Day

Content: Topics in operations research such as dynamic or stochastic programming, inventory theory, queuing theory.

Evaluation: Final examination, term test, problems, projects.

JCR872Y: Corporation Finance

Prerequisites: COMB1; ECOB1; ECGB1

Course Description: An examination of the financial environment within which Canadian companies operate. The aim is to cover the main principles of financial management and to discover the social and legal significance of the modern corporation. Limited enrollment: 60.

Instructor: T.H.A. Session: Winter Day

Evaluation: A mid-course test, a final examination and a number of written assignments.

Additional Comments: No further details are available at the present time. For further information, contact the Supervisor of Studies, Commerce.

JCR860Y: Introduction to Cinema

Course Description: The intention of the course is to introduce the student to the vocabulary of film criticism, major aesthetic approaches, and general history (silent and sound). Films will be shown on the average of one each week. Limited enrollment: 40.

Instructor: M. Schonberg Session: Winter Day

Content: The course will survey the history of the cinema from its beginning till the present. The students will view a large variety of films and discuss them in separate seminars. Areas of study will include the early silent films; German expressionistic films; French literature films; The French New Wave; The Russian avant-garde; The Russian Gorky; The American West; The American 1940's; The Italian Neorealism; The Soviet Cinema; The German Expressionistic Film; Italian Neo-realism; The French New Wave; Polish and Czechoslovakian Films, etc.

Teaching Method: Weekly Screenings (2 hours), 2-hour seminar

Evaluation: Two Class Tests Two Essays

Enrollment limited to 40 students
Note: There is a screening fee of $15.00 for this course.

JCR372Y: Organizational Behaviour

Exclusions: COMB27 (SOC267) (SOCC62)
Prerequisites: One previous course in Sociology, Commerce, Economics, or Political Science.

Course Description: Examines social factors in administration, the structuring of intra-organizational and interorganizational relationships, and the distribution of power and dependency in society. Emphasis is placed on small group processes and the analysis of individual and group behavior in organizations. Techniques used in the second term will focus on industries and other interdependent organizations. Students may organize their work as a series of short, independent exercises or as a major project, and should be prepared to share their conclusions in class discussions.

Instructor: J. Brandt (Winter Day) Session: Winter Day
D. Graefe (Winter Evening) Winter Evening

Teaching Method: Lectures and Tutorials.

Evaluation: A combination of examinations, essays and assignments.
JN1950S Italian Cinema
Course description: An analysis of the Italian film as an artistic genre, and its relation to literature from Neorealism (1947) to the present films with attributes by Rossellini, Antonioni, Fellini. Pasolini will be included in this course. Limited enrollment: 50.
Instructor: G. Katz Session: Winter Evening
Content: Films by Rossellini, Antonioni, Fellini, Pasolini and other post-war Italian directors will be shown during the course. Each film will be preceded by an introduction which will place it in its historical and artistic perspective. Students will be expected to do basic reading on the directors presented in the program and to discuss the films shown in the course and relate them to their cultural experience.
Evaluation: Attendance and class participation, 40%; Essay(s) written at home, 40%.
Note: There will be a screening fee of $10 for this course.

JLP955F Psycholinguistics
Prerequisite: LING401
Exclusion: LING90, PSY97
Course description: The course presents theories and experiments that address the question; how is language comprehended and produced? Linguistic theories that form the basis of psychological theories and the experimental evidence for and against each theory are reviewed, and an overview of current work in the field is offered.
Instructor: P. R. Salas Session: Winter day
Content: The concern of the field of Psycholinguistics is the relationship between the observed phenomena of language and the unobservable operations of the human brain, the reality of the structures and codes proposed by linguistics, the acquisition of language by the child, and the relationship between human language and Phylogenesis will be discussed.
Teaching method: Lectures, films and discussion.
Evaluation: Two one hour exams. Two brief papers.

JN401F Combinatorics
Prerequisite: MATH405 and at least one other B level course in mathematics or computer science.
Other recommended Courses: CSCI485
Course Description: A brief survey of the field of discrete mathematics with emphasis on problem solving. Elementary counting, generating functions and difference equations, permutations with restriction, polya counting, graphs, network flow problems, balanced incomplete block designs, incidence structures.
Instructor: E. Mendelson Session: Winter Day
Teaching method: Lectures, Assignments and Tests.
Evaluation: 1) Weekly assignments 2) Two take-home tests and/or one class test

JNV485 Applied Algebra
Exclusions: (MAC248)
Prerequisite: MATH54
Corequisite: Any two of CSCI80, CSCI51, CSCI54, CSCI73
Course Description: A study of the structures of modern algebra and their applications to computer science. Algebraic algorithms. Computations with integers and symbolic matrices. Interpolation and Chinese remainder theorems. The fast Fourier transform and multiplication of large integers and polynomials. Semi groups. Catline. Boolean algebras and their applications.
Instructor: TBA Session: Winter day
Objective and Content: This course is concerned with the analysis and derivation of efficient algebraic algorithms. In the first five weeks algebraic structures and their properties will be studied. Algebraic algorithms based on Chinese remainder theory and the fast Fourier transform over finite fields will be studied and their application to such areas as polynomial factorization, exact solution of linear equations and fast integral/ polynomial multiplication will be discussed. Implementation difficulties will also be discussed and various Algebraic manipulation systems will be surveyed.
Evaluation: A final exam
6 - 7 Assignments (only one involves programming)
NUMERICAL METHODS

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

Instructor: P. Reast Session: Winter Day

OBJECTIVE AND CONTENT: This course provides an introduction to numerical analysis and the use of numerical methods. Although the emphasis is on the method of solving a problem, the derivation of numerical methods, the main emphasis is on the choice and use of numerical methods from program libraries. Inexact floating-point arithmetic, instability, lack of convergence and ill-conditioning are discussed and techniques for detecting and coping with these difficulties will be presented.

Evaluation: A mid-term exam
A final exam
4 - 5 assignments

SYMBOLIC LOGIC

Course Description: An Introduction to formal techniques of reasoning: sentential logic, and quantification theory or predicate logic.

Instructor: J.R. Sobel Session: Winter day

Content: An introduction to formal techniques of reasoning, deductive and inductive, the course covers sentential logic, quantification theory, or predicate logic and elements of probability theory. The emphasis is on appreciation of and practice in techniques, for example, formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed. But the emphasis is on techniques.

Bibliography: (principal text)
Donald Kains and Richard Montague, Logic: Techniques of Formal Reasoning (for deductive techniques only)

Evaluation: Three tests during the term and a final examination.
Latin

Courses are offered in introductory Latin (LATS6) and Latin literature (LATS01, LATS02, LATS01, LATS030, etc.).

For further information see under Classical Studies.

LATS01Y Introductory Latin
LATS01F Catullus
LATS02S Catullus
LATS01F Virgil, Aenid
LATS03P-33F
LATS03S-39S Supervised Reading
LATS04P
LATS01Y Independent Studies
Linguistics

Linguistics is the science of language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINN01, LINN01I, and LINN02I) or the tracing of the history and development of languages (LINN08). Linguists draw on the findings of other disciplines (including anthropology, psychology, and computer science) and work with a wide range of materials (including grammars, dictionaries, and computer software). This new science is reflected in LINN07, ULPN55, LINN03I and other courses.

Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LINDSS, LINN05, LINN06 and LINN07.

For those majoring in General Linguistics, Psycholinguistics, Sociolinguistics, see the appropriate section of the Calendar. In addition to the courses listed there, the following courses in other disciplines will be of interest.

ANTH04 Ethnic Cultures of Canada
ENGB01 Old English Language and Literature
FREN25 Introduction to French Linguistics
FREN26 The French Language in Canada
FREN44 Principles of Lexicology and Their Application to Modern French
GERM04 History of German
GERM35 Introduction to Middle High German
PRLB00 Philosophy of Language

MAJOR PROGRAM IN LINGUISTICS

Supervisor of Studies: J.D. Woods

The major program in Linguistics may be taken in one of three ways, each of which requires five basic courses and further courses in other related disciplines as set out in the sub-programmes.

General Linguistics Sub-programme

Students must complete within a twenty course programme the following courses in Linguistics:

(1) LINN01 or LINN03
(2) LINN01I or LINN04
(3) LINN02 or LINN06
(4) LINN07 or ULPN55
(5) LINN08 or ULMC410

and any two of:

GERM04 Introduction to Middle High German
GERM35 History of German
PHIL00 Philosophy of Language

Psycholinguistics Sub-programme

In addition to the five basic courses listed under the General Linguistics Programmes, which must include LINN01 and LINN03, the student must complete:

two further courses in Linguistics to be approved by Supervisor of Studies or two full course equivalents of Language study in a language which is neither their native tongue nor a language which they studied before entering the College, and all of the following courses:

PSYB09 Introduction to Psychology

LINGUALLY General Linguistics

Exclusions: (LINN03)

Course description: In the introductory course various methods of linguistic analysis will be discussed, as well as the form and content systems which comprise language. Among the questions considered will be the processes of producing and comprehending speech, first and second language acquisition, and the ideal structures which underlie actual utterances.

Instructor: M.W. Salas/P.H. Sales

Schedule: Winter day

Contents: General Linguistics

Evaluation: 5 one-hour tests, 25-35 homework assignments.

Final examination.
LINN2045 Introduction to Language
Exclusions: LNNL01
Instructor: D. M. James
Session: Winter Evening
Other Remarks: This is a non-technical introduction; it cannot be used as a prerequisite for further linguistics courses. The course will try to answer questions like: In what ways can languages differ from one another? In what ways are they all alike? How do languages change? How did language originate? How do children learn to speak? Are some languages better than others? Do men and women speak differently? etc.
Teaching Method: Lectures and discussions.
Evaluation: Tentatively, two term tests and a final examination.
LINB977  Social Linguistics
Prerequisite: LINAS1 or (LINAS3) or SOCAS1 or SOCAS2
Course description: The structure and use of language as it relates to social and cultural functions. The application of socio-linguistic research to Canada will comprise approximately half of the year's work.
Instructor: Suzanne Whalen. Session: Winter Day
Content: The course has a two-fold objective: theoretical and practical.
1) The theoretical part deals with: the speech situation, social implications of speech varieties, language maintenance, bilingualism, role of language in shaping national identity and influencing political boundaries.
2) On the practical level, students participate in actual research: gather sociolinguistic data, transcribe and process taped interviews, and statistically analyze the collected data and prepare a report of their findings.
Teaching Method: Two hours of seminar-type classes per week. Field work in small groups.
Evaluation: Two term tests (25%) participation in research (45%) and contributions to class discussion (30%)

LINB096  Phonetics
Prerequisite: LINA01
Course description: The physiological and acoustic bases of language.
Instructor: D. Woods. Session: Winter Day
Content: An examination of the means by which speech sounds are produced, and of the physical properties of these sounds. Emphasis will be placed on such practical considerations as phonetic transcriptions.
Teaching Method: Class discussion of course material.
Evaluation: Three one-hour tests, one two-hour test (near end of term), and evaluation of contribution to class discussion. Subject to the approval of the appropriate decision-making body, there will be no final exam in this course.

LINB117  Syntax and Semantics
Prerequisite: LINB031 or LINB032 or LINB031
Course description: The study of sentence structure, including the major grammatical processes, e.g., transformational rules, the principle of the cycle, etc.; the relationship between syntax and semantics; grammatical and lexical meaning; literal vs. conveyed meaning, presuppositions, the influence of extra-linguistic context on language.
Instructor: D.M. James. Session: Winter Day
Content: The emphasis will be on language as a code system used for communication. What are the rules of the communication game? How do people manage to translate noises into ideas and vice-versa? Students will be expected to analyze data and propose and argue for solutions.
Teaching Method: Lectures, discussions, assigned problems.
Evaluation: Tentative, four examinations, partly in-class and partly take-home. There will also be frequent homework assignments, which are to be handed in although not necessarily graded.

LINB146  Developmental Psycholinguistics
Prerequisite: LINB033 or JLPB55 or LINB27
Course description: The development of the facility for speech in children. Acquisition of a first language. The neurological prerequisites for speech and writing. This course is a continuation of JLPB55.
Instructors: M.W. Salas/P.M. Salas Session(s): Winter Day
Content: All you always wanted to know about how kids learn to talk, but were afraid to ask.
Teaching Method: Lectures and discussions. Text: T.B.D.
Evaluation: 1 one-hour test, 3 brief (5 page) "papers", 1 Final Examination.
LINB24S Languages of the World
Prerequisite: LINN1, LINN34, or one course in Psychology or Anthropology
Instructor: Suzanne Whalen Session: Spring Day
Contents: Presentation of the world’s known language families and their interpretation. Comparison of their phonological, grammatical, and lexical features. Introduction to major theoretical approaches and the structural universals of natural languages. Theoretical criteria used in language classifications.
Teaching Method: Two hours of lecture and discussion per week.
Evaluation: Class participation 20%, two term tests each worth 20% final term paper 40%.

LINB27F Animal Communication
Prerequisite: One course in LIFE, PSY, SOC, or ANT
Course description: The ways in which various non-human species convey information. Cichlids and bees, fish, amphibians; cows, camels; primates other than man will be studied. Visual, olfactory and auditory modalities.
Instructor: Mary Salas Session: B27F Summer Evening
P.H. Salas B27F Winter Day
Contents: Where do bees find nectar? How does a cymet find his mother? Which wolf is mine? Why do fish school? How does a schoolgoose know that he is in “foreign territory”? How does Clever Hans, Viki, Siss, Sarah, Moses, and Lane? Who are Lorenz, Smith, Thorpe, Tinbergen and von Friesch?
Teaching Method: Lectures, films, discussions. Text: T.O.A.
Evaluation: 3 one-hour tests, 1 term paper, final examination

JILP35Y Psycholinguistics
(See listing under section for Joint Courses)
Mathematics

Staff member responsible for curriculum: R. Pierce

Mathematics has emerged over the centuries from primitive needs to count and to ensure that a system of numbers is adequate to perform operations. Its theory is very abstract, being a branch of logic that is not concerned with the problems of the world. Mathematics is a discipline that is rich in its own right and has many applications in science and technology.

The mathematics program is divided into four sections:

(a) MATH321 is a prerequisite for some non-science programs. Completion of this course does not qualify the student to proceed to further courses in Mathematics or Computer Science.

(b) MATH336: MATH241, 252-257, CALI, JPM142

These courses, primarily for science and social science students, emphasize practice in mathematics, rather than full rigor.

(c) JPM150-51

A course in logic, listed as a joint course in mathematics and philosophy.

(d) All other courses in mathematics emphasize rigor. Many of these courses are required for major programs in mathematics or physics.

The student of mathematics should also consult the list of courses offered under "Computer Science".

\[ \text{A' Level - Calculus Courses} \]

MATH242 Calculus

Winter, Scarborough

MATH252 Calculus with linear algebra

Winter, Summer Evening, Scarborough

MATH251 Techniques in calculus

Winter, Scarborough

COMPARISON

MATH255 is a theory course. The emphasis is on why theorems are true (hence on rigorous proofs) and students are expected to learn how to prove theorems. This course together with MATH440-MATH445 is essential for students who wish to specialize in mathematics or theoretical physics.

MATH2 is a practical course, taught at a high level. There is no attempt to provide rigorous proofs. On the other hand, students are expected to learn the essential ideas of the subject and to master the necessary techniques. There is an emphasis on applications. MATH2 is available to students who wish to take some courses in physical science or mathematics in higher years. Students enrolling in MATH2 are expected to be familiar with the material of Grade 11 calculus.

MATH422 is a technique of calculus course for students who have had no previous experience with the subject. It covers less material than MATH242, and at a less intensive level. It is intended for students who do not intend to take further mathematics or physical science courses.

A student who completes MATH355 and MATH242-45 may take any of the second-year mathematics courses. A student with MATH242 may take the second course (MATH241) in second year, and its sequel in third year. He/she is however barred from taking the subsequent second and third year courses. A student should enroll in MATH242 only if he/she does not wish to take further mathematics courses.

MAJOR PROGRAMME IN MATHEMATICS

Supervisor of Studies: R. Dever

In this program the following thirteen and one-half full courses must be completed. Among their first five courses students must complete MATH441, MATH442 and MATH455 and during their second five courses students should complete MATH440, MATH455 and MATH456.

In addition, during their twenty-course major programme, students must complete MATH316, MATH442, MATH455, MATH457, MATH465, MATH466, and MATH469. The remaining five courses should also complete MATH401, MATH402, MATH403, MATH405, MATH406, MATH407, MATH408, MATH409, MATH410, and MATH411. These last five half-courses may be replaced by other Mathematics or Science courses that carry a significant mathematical content.

Complete programme should be planned in consultation with a member of the Mathematics Faculty.

In any given year, some 'O' level courses may not be offered. Students should check with the division office.

MAJOR PROGRAMME IN MATHEMATICS AND PHYSICS

Supervisors of Studies: P.J. O'Donnell (Physics) and R. Dever (Mathematics)

Students should complete seventeen courses as specified below:

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

- PHYS101
- MATH241
- MATH242

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

- PHYS201; MATH244 or MATH245

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

- PHYS203; PHYS204; JPM240; MATH205; MATH206

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

- PHYS401; PHYS402; PHYS403; PHYS404; PHYS405; MATH401; MATH402; and two other* 400-level (St. George) physics courses.

*JPM401 or (MATH455; MATH464) can be substituted for one of these.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Prerequisite</th>
<th>Course Description</th>
<th>Instructor</th>
<th>Session</th>
<th>Content</th>
<th>Teaching Method</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH34</td>
<td>Calculus with Linear Algebra</td>
<td>MATH27; MATH55</td>
<td>Inequalities, Absolute value, Functions of a single variable, Limits and continuity, The derivative, Techniques of differentiation, Applications to related rates, extreme value, problems, and problems in Physics and Economics. Graph sketching, including asymptotic behaviour. Rolle's theorem and mean value theorem. Taylor's series. L'Hopital's rule, Indefinite and definite integrals, Techniques of Integration, Applications of Integration. Vector spaces, Linear equations, Matrices, Determinants.</td>
<td>T. Callahan, J.S. Hamper, J.D. Keast and one other</td>
<td>Winter Day/Evening</td>
<td>Summer Evening</td>
<td>This course introduces the basic techniques of the calculus, and stresses their use in the analysis and solution of problems. It requires a good understanding of the underlying ideas, which is achieved through the investigation of specific examples rather than by mere definitions. Students will find this a demanding but rewarding course, which will equip them for most scientific applications.</td>
<td>Lectures and tutorials.</td>
</tr>
<tr>
<td>MATH40</td>
<td>Introduction to Linear Algebra</td>
<td>Grade 13 Functions and Relations or Grade 13 Calculus</td>
<td>The study of vector spaces, Bases, Dot products, Cross products, Subspaces, Linear independence, Bases, Dimension, Matrices, Systems of linear equations, Linear transformations, Matrix of a linear transformation, General applications.</td>
<td>T. Callahan &amp; S. Pierce</td>
<td>Winter Day</td>
<td>This course is intended for serious students who plan to continue with mathematics and/or science. The subject matter is abstract and demands a great deal of time and effort to master. However, if you are prepared to work hard, then this is a very rewarding course and well worth the effort.</td>
<td>Lectures and tutorials.</td>
<td>T.B.A.</td>
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<tr>
<td>MATH55</td>
<td>Linear Algebra I</td>
<td>MATH40</td>
<td>A generalization of the topics covered in MATH25 to abstract vector spaces. Eigenvalues, Eigenvectors, Change of basis, Diagonalization of a matrix.</td>
<td>S. Pierce</td>
<td>Winter Day</td>
<td>This is a course intended for serious students who plan to continue with mathematics and/or science. The subject matter is abstract and demands a great deal of time and effort to master. However, if you are prepared to work hard, then this is a very rewarding course and well worth the effort.</td>
<td>Lectures and tutorials.</td>
<td>T.B.A.</td>
</tr>
<tr>
<td>MATH57</td>
<td>Calculus</td>
<td>MATH27; MATH56</td>
<td>Functions and Relations, Grade 13 Calculus, Barriers, Induction, Inequalities, Chain Rule, Limits, Derivatives and applications, Transcendental functions and applications, Techniques of Integration, Mean value theorems, Taylor's formula, L'Hopital's rule, Sequences and series, Polar coordinates, Parametric representations and applications, Differential equations.</td>
<td>S. Dever</td>
<td>Winter Day</td>
<td>This course is designed for students who intend to pursue further studies in mathematics or sciences. There is a strong emphasis on rigorous proofs. The course will treat the concepts of the calculus, their local relations, and how to bring problems from other disciplines within this framework and solve them.</td>
<td>Lectures, tutorials, assignments &amp; tests.</td>
<td>T.B.A.</td>
</tr>
</tbody>
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MATH207  Geometry

Prerequisite: MATA41


Instructor: E. Nandakumar

Session: Winter Day

Content: This course explores some facets of present-day geometric research. In addition, the interplay between geometry and algebra is emphasized.

Teaching Method: 3 lectures per week.

Evaluation: T.B.A.

MATH206  Linear Algebra II

Prerequisite: MATH205

Course Description: Dual spaces, linear functionals, the double dual; the transpose of a linear transformation. Polynomial algebras over a field; prime factorizations in $k[x]$; elementary divisors. The theory of a single linear transformation: determinants, Cayley-Hamilton theorem, invariant subspaces; primary decomposition, rational canonical form, Jordan form. Introduction to bilinear forms and linear product spaces.

Instructor: R. Pierce

Session: Winter Day

Teaching Method: 3 lectures per week.

Evaluation: T.B.A.

MATH304  Techniques of the Calculus of Several Variables II

Exclusion: MATH500

Prerequisites: MATH206 or MATH205


Instructor: J.S. Halperin

Session: Winter Day

Teaching Method: Lectures and tutorials.

Evaluation: T.B.A.
MAT 511F Differential Equations I
Prerequisites: MAT 240; MAT 255
Corequisites: MAT 595G
Instructor: T.B.A.
Session: Winter Day
Teaching Method: 4 lectures per week.
Evaluation: T.B.A.

MAT 5117 Probability and Statistics I
Exclusions: PSYD 707
Prerequisites: MAT 240 or MAT 255
Course Description: Sample space, random variables, univariate and bivariate distributions. Joint and marginal distributions. Probability density functions, parametric and non-parametric. Selected applications to psychology, sociology, industrial problems, medical research, etc.
Instructor: R. Evans
Session: Winter Day
Teaching Method: Lectures and tutorials.
Evaluation: T.B.A.

MAT 5115 Analysis II
Exclusions: MAT 411
Prerequisites: MAT 585
Course Description: The topology of the n-dimensional Euclidean space. Multiple integrals and transformation of variables. Integration of n-forms. Exterior calculus. Line integrals, winding number, Green's theorem. Surface integrals and Stokes' theorem. (Mathematical rigour is emphasized.)
Instructor: R. Sharp
Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

MAT 5115S Differential Equations II
Prerequisites: MAT 240; MAT 595G
Instructor: T.B.A.
Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

MAT 5178 Probability and Statistics II
Prerequisite: MAT 592
Instructor: R. Evans
Session: Winter Day
Teaching Method: Lectures and tutorials.
Evaluation: T.B.A.

MAT 5705 Introduction to Number Theory
Prerequisite: MAT 240
Course Description: Some elementary properties of integers. Prime numbers, congruences, Diophantine equations. Quadratic residues. Rational approximation.
Instructor: T. Callahan
Session: Winter Day
Objectives: To explore properties of the integers.
Comments: MAT 5705 will be an exploratory course. The material to be studied will be chosen on its own merit, not for future usefulness. Number theory is one of the oldest and most beautiful branches of pure mathematics and it is hoped that the course should provide an idea of why it has fascinated mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential.
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.
MATC447  Algebraic Structures I
Prerequisites: MATH 1 and one other 2-level Mathematics course
Course Description: An introduction to group theory and algebra. Groups, their homomorphisms and structure. Representation of groups by permutation groups. Isomorphism theorems and some of their implications. Sylow theorems. A similar study of rings and fields.
Instructor: E. Ellers  Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

MATC452  Algebraic Structures II
Prerequisites: MATC447
Course Description: The study of rings, Euclidean domains and polynomial rings. The fundamental structure of fields. A survey of extension fields, finite fields and algebraic closures. The fundamental theorem of Galois Theory. The problem of construction of a regular heptagon, and the trisection of an angle. The structure of finite division rings and of division rings over the real numbers.
Instructor: E. Mendelsohn  Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

MATC570  Experimental Design
Prerequisites: MATC557; MATH 40
Course Description: The statistical aspects of collecting and analyzing experimental data; analysis of variance, orthogonal designs.
Instructor: M. Evans  Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

MATC557  Real Analysis
Prerequisites: MATH 55, MATH 555
Instructor: R. Delver  Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

MATC595  Probability Theory and Stochastic Processes
Prerequisites: MATH 55; MATH 555
Course Description: Probability theory (extending elementary results) especially, conditional probability. Markov variables (multi-dimensional) characteristic functions, law of large numbers. Study of stochastic processes: Markov chains (discrete or continuous time) renewal theory, covariance stationary processes, turbulence and noise.
Instructor: M. Evans  Session: Winter Day
Teaching Method: 3 lectures per week.
Evaluation: T.B.A.

THIS COURSE NOT TO BE OFFERED IN 1979-80
**MATC86F** Complex Analysis II

**Prerequisite:** MAT255 or MAT442G

**Course Description:** Complex arithmetic, Polynomials and Elementary Functions. Differentiation and the Cauchy-Riemann equations. Cauchy's integral formula for differentiable functions and their Taylor expansions. Properties of analytic functions, including Liouville's theorem, identity theorem, maximum modulus theorem and open mapping theorem. Laurent expansion and classification of isolated singularities. Residue calculus.

**Instructor:** J. Wilker  
**Session:** Winter Day

**Teaching Method:** 3 lectures per week

**Evaluation:** T.B.A.

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**MATC65S** Complex Analysis II

**Prerequisite:** MAT460

**Course Description:** Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution of the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.

**Instructor:** J. Wilker  
**Session:** Winter Day

**Teaching Method:** 3 lectures per week

**Evaluation:** T.B.A.

**Courses Not Offered 1978-79**

**MATC32S** Advanced Topics in Mathematics

**Prerequisite:** MAT241F and MAT242F or MAT250CF and MAT251F

**MATC41F** Applied Differential Equations

**Exclusion:** MAT51S

**Prerequisite:** MAT242G or MAT255

**MATC44F** Differential Geometry I

**Prerequisite:** MAT245

**Corequisites:** MAT251, MAT255

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**Major Programmes in Modern Languages and Literature**

Major programmes are possible in a combination of any two of English, French, German, Italian, Russian, Spanish. Fourteen courses are required, seven in each of the two areas.

These programmes may render a student eligible to pursue graduate studies, and a combination which includes English or French would allow students to apply to the Faculty of Education for Type A certification.

In each case of a combined major the students must have approval of the appropriate Supervisors of Studies.

**Requirements in each subject are as follows:**

**English** Seven full course equivalents, including one of ENGB41T, B6Y, C01Y, C03Y. At least one course should be at the C-level.

**Supervisor of Studies:** J. Kay

**French** Seven full course equivalents, including FRAN61 and B61, one full course equivalent in literature dealing with the French literature, and one full course equivalent in the history of the French language.

No more than two full course equivalents at the A level and one from the series of Supervised Reading courses may be counted. At least two courses should be at the C-level.

**Supervisor of Studies:** P. Roe

**German** Seven full course equivalents as follows: GREE66F, B75, B81F, B87F/8, C15, C20F, B62, B63F, B87F, C01Y.

**Supervisor of Studies:** H. Ohlendorf

**Italian** Seven full course equivalents, of which at least two, full course equivalents must be in Italian literature at a level appropriate to the student's background and experience and at least four full course equivalents must be in Italian literature, including B21Y and B31Y.

**Supervisor of Studies:** A. Franceschetti

**Russian** Seven full course equivalents as follows: RUS61Y, B31Y, B61Y, B81Y, B87F, C01Y.

**Supervisor of Studies:** C. Ponomareff

**Spanish** Seven full course equivalents of which four full course equivalents will be in Spanish language (SPAN61, B81Y, B87F/8, C01Y, B80), and three full course equivalents will be in Spanish literature (SPAN61, B80F/8, B86F/8 and B89F/8, B89F/8, B90F/8, B90F/8, B91Y, JER51T, JER51T, JER51T). 

**SPAN61Y** does not count as one of the nine full courses required for a major programme.

**Supervisor of Studies:** P. Leon

**Latin and a Modern Language**

A combination of one of the seven-course options listed above (other than English - for English and Latin see English and Classics) with four full course equivalents in Latin as follows: LAT50F, B05E and three other full course equivalents from AS1Y, B11F, B20F, B25F, B35-399, C03F, C02Y.

**Supervisor of Studies:** J. R. McDonald

**Linguistics and a Modern Language**

A combination of one of the seven-course options listed above and five full course equivalents in linguistics to include LINMA61T, B11Y and B87Y. LINMA64F/8 and LINMA688 may not be offered towards a major programme.

**Supervisor of Studies:** J. D. Woods
MUS040F \hspace{1cm} Music of the Baroque Era

Prerequisite: MUS040 (MUS031)
Course description: A study of the music from the early seventeenth century until the death of Bach.
Instructor: T. McGee
Session: Winter Day

Objectives: A study of the music from the early seventeenth century to the death of Bach.
Content: Selected compositions of a few outstanding masters will be discussed in detail as representatives of the entire repertory. The course will include both instrumental and vocal music.
Teaching Method: 2 hours per week - lecture and class discussion.
Evaluation: 1/3 exam
1/3 class participation
1/3 term paper

MUS050T \hspace{1cm} Introduction to Music

Course description: A study of the basic materials, principles of design, and cultural significance of representative works of Western and non-Western music, including popular music from the Middle Ages to the present. No musical training is required.
Instructor: T. McGee
Session: Winter Day

Content: A survey of the style changes in Western music from the Middle Ages to the present. The music is approached in terms of technical construction, style characteristics, and its relationship to trends in art and society. The evolutionary aspects of the various period styles are emphasized as well as the individual characteristics of selected works.
Teaching Method: Three lecture hours per week.
Evaluation: 2/3 term paper and final exam
MUSB08 Supervised Performance I

Corequisite: MUSA01

Course description: Performance of either vocal or instrumental music, supervised by a member of the faculty. Examination by audition and written test. Previous experience necessary for instrumentalists.

Instructor(s): T.B.A.  
Session: Winter Day

Objectives: Performance of a variety of music literature and possible public performance for the college. Students to learn about the variety of literature from actual performance. Previous experience necessary for instrumentalists. No experience for vocal.

Contents: Wide variety of music.

Method: 2 hours rehearsal per week.

Evaluation: Audition and written test.

Additional Comments: 1/2 credit per year, limited to one full credit per student.

MUSB18 Supervised Performance II

Prerequisite: MUSB08

Course description: A continuation of MUSB08.

Instructor(s): T.B.A.  
Session: Winter Day

Objectives: For further information see Music 89.

Evaluation: Audition and written test.

MUSB17 Music for the Theatre

Prerequisites: MUSA01 or MUSB08

Course description: Music for the Theatre from the Renaissance to the present day with emphasis on particularly significant works.

Instructor: T.B.A.  
Session: Winter Day

MUSB19 Bach

Prerequisite: MUSA01Y or MUSB08

Course description: A study of the variety of music written by Johann Sebastian Bach.

Instructor: T.B.A.  
Session: Winter Day
Myth & Religion

Supervisor of Studies: J.H. Corbett

This programme combines an examination of man's perception and experience of his religious and mythic heritage and institutions from the anthropological, historical, philosophical, sociological and literary points of view. Students should select at least seven full courses (or equivalent) as follows:

(1) HUMANITY Prologue

(2) Two of the following half-courses:
   - ANTHRO/ Anthropological Study of Religion
   - REL 625/ Philosophy of Religion
   - SOC 205/ Sociology of Religion

(3) Five further courses from the remaining half-course above and the following courses:
   - ANCC00/ Systems of Thought
   - CLAS2/ Greek and Roman Religion
   - CLAS2/ Christianity in the Greco-Roman World
   - FABB2/ High Gothic Architecture
   - FABB2/ Gothic Painting
   - HIS 202/ Europe in the Middle Ages
   - HIS 203/ Canadian Religious Traditions
   - HIS 204/ Europe in the Reformation Era 1500-1650
   - HIS 205/ The Beginnings of France: Constants to Charlemagne
   - HIS 206/ The European Mentality in the Early Modern Period
   - HIS 207/ Selected Topics in Canadian Religious History
   - HIS 208/ The Crusades
   - HIS 209/ Greek and Roman Mythology
   - HIS 210/ Primitive Christian Literature and Myth
   - HIS 211/ Jesus in Early Christianity and Judaism
   - HIS 212/ Dante and Medieval Culture
   - REL 202/ Philosophers of the Middle Ages

Courses in Religious Studies offered on the St. George Campus especially:

REL 102 Introduction to the Study of Religion
REL 200 Ancient Myth and Ritual
REL 211 Christianity: Antiquity to Charlemagne
REL 212 Christianity: Middle Ages and Renaissance
REL 220 The Mythological Framework of Western Culture
REL 221 Carl Jung's Theory of Religion

The prerequisite requirement for this course, a course in "intermediate Italian" will be waived for students in the Myth and Religion Programme, who will be permitted to read the works in translation.

Natural Science

QUATERNARY STUDIES PROGRAMME

Supervisor of Studies: J.C. Ritchie

Several courses in various disciplines relate directly or indirectly to the Quaternary - that period of time encompassing the last three million years, when the formative processes underlying modern culture, landscape patterns and biogeography developed and interacted. Students with an interest in this multidisciplinary area should consult the Supervisor of Studies for further details.

-run-by-
Introductions to Natural Science: The Biological Sciences

Exclusion: Not open to students who are taking or have taken BIOL33.

Course Description: This course is designed for students with no formal background in biology, and in particular for those whose main interests are not in the Natural Sciences. It aims to present an integrated view of the biological basis of individuality, social structure and ecological systems. An understanding of problems of environment, resources, population and race is based on a core of concepts; Man, inheritance and society; population and resources; the cybernetics of ecosystems. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods.

Instructor: G. R. Willims

Session: Winter Day

Objectives: To gain an understanding of the development of thought in the biological sciences and of the application of that thought to man and his environment.

Content: Consideration of control feedback mechanisms within biological systems at levels from that of the cell to the organismal community. Consideration of basic ecological theory with reference to familiar ecosystems.

Teaching Method: Two lecture hours plus a minimum of 1 tutorial every third week.

Evaluation: In each term students will complete one set-exam essay and one thesis-topic essay (optional formats available). In the spring term 2 problem sets will be assigned. Exams and problem sets: 50% Final mark. Examinations: 50%.

RUNBY

Ice Ages and Human Ecology

Course description: A thematic introduction to the interdisciplinary study of the "Ice Age" (Quaternary) and of human palaeoecology, involving several Quaternary specialists.

Instructor: B. Greenwood, J. Ritchie, R.B. Schirodker, J. Westgate

Session: Winter Day

Content: An introduction to the diverse interests, research problems, and interrelationships of the various earth sciences, biological sciences, and human sciences which focus on the study of the last 2.5 million years. The programme consists of a series of lectures which emphasize research problems of current interest to Quaternary scientists, who will present these problems in a manner suitable to first year students with limited backgrounds in any of the sciences. Such themes might include climatic change, the formation of glacial ice, ice movements and their effects on the landscapes, periglacial ecology, faunal extinctions, human origins, the domestication of plants and animals, human migration into the Western Hemisphere, and earliest occupations in Ontario.

Teaching Method: One two-hour lecture per week, and occasional fieldtrips.

Evaluation: Examinations and short research paper.
PHILOSOPHY

Discipline Representative: D.L. Mohler

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 originate in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two year cycle: those not offered in 1977-78 will be available in 1978-79 while PHL401, PHL501, PHL520, JMP455, PHL525 and PHL541 are offered every year. It should be noted that in almost all areas Fall/Spring sequences are offered which when combined provide the equivalent of a full year course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative, HS65.

MAJOR PROGRAMME IN PHILOSOPHY

Supervisor of Studies: D.L. Mohler

Students must complete PHLA01, PHLB01, PHLB02/S, JMPB05, PHLG05/S, four half-courses from PHLB04 to PHLB09, one C-level half course in Philosophy, and seven other half-courses in Philosophy.

PHYSICS AND PHILOSOPHY PROGRAMME

See Physics

PHILOSOPHY AND GREEK

Students should complete ten full-course equivalents made up in the following manner:

Philosophy:

1. (1) PHLA01Y Fundamental Questions of Philosophy
   (2) PHLB02F Plato and his Predecessors I
   (3) PHLB03F Plato and his Predecessors II
   (4) PHLB04F Aristotle and Later Greek Philosophy I
   (5) PHLB05F Aristotle and Later Greek Philosophy II
   (6) Four further half-courses

Greek:

1. (1) GRSA01Y Introductory Greek
   (2) GRSA02F Plato's Dialogues
   (3) GRSA15S Homer Odyssey
   (4) Four half-courses in Supervised Reading (GRSA30-39)
   (5) One full course (or equivalent) from the following:
      CLASS01Y Greek and Roman Epic
      CLASS02Y Greek and Roman Tragedy
      CLASS03Y Greek and Roman Religion
      CLASS12Y Christianity in the Greco-Roman World
      GRH001Y History of Greece from 2000 B.C. to the Death of Alexander
      GRH002Y Greek and Roman History from the Death of Alexander to the Graeco Roman
PHL 101: Fundamental Questions of Philosophy

Course description: 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?


The aim of the course is to convey an idea of philosophy, its nature and variety, by doing some and by seeing some done by great philosophers.

Bibliography: Reading material for the course is about evenly divided between works of great philosophers of the past, including Anselm, Aquinas, Descartes, Berkeley, Hume and Leibnitz, and works of recent philosophers.

Evaluation: To be announced later.

PHL 102 & 103: Fundamental Questions of Philosophy

Course description: 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?

Instructor: R. Schurberger. Session: Winter Day

Teaching Method: A mixture of lectures and discussions. Readings from several philosophical classics, supplemented with some contemporary readings. Discussion sections will be focused around issues raised in the texts and may include supplementary study material which will occasionally be provided.

Evaluation: Course work will consist of at least one research paper, and class tests (number and weighting to be negotiated with the members of the class during the first week of term).

PHL 109: Fundamental Questions of Philosophy

Course description: 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?


Content: In this course there are three groups of questions which we shall deal with: (1) questions about the ultimate nature of ourselves, others and reality as a whole (metaphysical questions); (2) questions about the nature, use and limits of rational thinking, whether it be the kind of thinking found in mathematics or in science (questions in logic); and (3) questions about the nature, use and justification of moral values and the whole institution called "the moral way of life" (questions in ethics).

Texts: Richard Taylor, Metaphysics (2nd ed.); Wesley Salmon, Logic (2nd ed.); William Frankena, Ethics (2nd ed.).

Evaluation: To be announced later.

PHL 108: Morality and Values

Course description: A study of philosophical problems and postures in ethics such as the relativism of values, the justification of morality, moral skepticism, ethical egoism, utilitarianism, deontology.


Content: This course is an introduction to the problems and concepts of ethical theory as found in four treatises: Plato, Hippocrates-Ethics by Aristotle, Bentham, and Mill, with an emphasis on the philosophy of values by Hume, and Kant's Foundation of the Metaphysics of Morals.

Evaluation: There will be a test during the term and a final examination.
PHLS025  Contemporary Ethical Theories

Exclusions:  (PHLS78)  (PHLS66)
Course Description:  A seminar on current moral philosophy
Instructor:  J.R. Sobel  Session:  Winter Day

Content:  This course has two parts. The first deals with topics concerning the nature of morality. Questions suggestive of its content are: What bearing, if any, have facts establisahed empirically upon values and duties? Are values and duties facts of another kind than other facts (e.g., physical laws)? Are there strictly speaking any values and duties, or is ethics rather only a region for decisions and commitments? Our approach is first to consider various theories regarding the alleged autonomy of ethics: that its terms are not definable in other terms, that its propositions are not deducible from other propositions. Then major twentieth century theories of morality (including explanations of its apparent autonomy) are examined: Intuitionism, Freethinkers and Naturalism (we consider a psychological variety, as well as a sociological conventional variety).

The second shorter part of the course concerns utilitarianism. Two sets of issues, prominent in modern discussions, are taken up. The first relate to forms of utilitarianism, 'act' and 'rule': Are the differences here deep, or will calculations in accordance with various forms, if exhaustive and error-free, always yield the same result? The second relate to the charge that utilitarianism in any form is a self-defeating doctrine: A consistent and errorless pursuit of good consequences would, it is claimed, have bad consequences. One wonders whether this is possible, and supposing that it is possible and true, whether that it shows and whether it affords a refutation of utilitarianism.

Evaluation:  A test during term, a final exam and an essay.

PHLS047  Philosophy and Art

Exclusions:  (PHLS22)  (PHLS27)
Course Description:  A study of the nature and purposes of art, considering such questions as the interpretation and evaluation of works of art, the uniqueness of artistic experiences, artistic creativity, and the importance of art.
Instructor:  William Graham  Session:  Winter Day

Content and Evaluation:  This course will investigate the relation of art to human life. A specific set of topics will be available in the fall. In addition, art forms (painting, sculpture, architecture, poetry) will be investigated and discussed. Students should bring their own interests to bear on this course. Term work may consist of written work (two short or one longer paper) or forms of expression, demonstration, display of work, etc. It must be made clear that student participation is essential.

PHLS047  Philosophy in Literature

Exclusions:  (PHLS24)  (PHLS65)
Course Description:  An examination of philosophical theories and claims in literary works. Authors may include Camus, Hof, Kafka, Huxley, Kant, Heine, Mann, Vannevar. Topics may include the nature of the self, the meaning of life, the subjectivity of values, the character of morality. Authors and topics may vary from year to year.
Instructor:  P.A. Alperman  Session:  Winter Evening

Content:  Although philosophical ideas are traditionally presented in apparent form in philosophical treatises, they also find expression in novels. In this course, we will explore a variety of philosophical problems as they occur, either explicitly or implicitly, in selected works of literature. Topics will include: guilt, deception and responsibility, the problem of God's existence and the existence of evil and suffering; and the significance of death, dying and the possibility of life after death. We will also examine the more general question of the relation of Philosophy to its expression in literature.

Tests will include: Tolstoy, "The Death of Ivan Ilyich"; Sartre, ""The Wall."" ""Existentialism."" Shaw, "The Quintessence of Life"; and Plato, ""Apology, Critic and Phaedo."" Course work will include two papers and one examination.

PHLS055  Social Issues

Course Description:  An examination of the moral questions surrounding some of the following: abortion, capital punishment, human social relations (homosexuality, minority group, pregnancy, ecology, civil disobedience, policies toward the Third World, and toward the poor.
Instructor:  H.P. Thompson  Session:  Winter Day

Content:  An examination of the moral questions surrounding: human sexual relations, abortion, war, hunger, discrimination and genetic control.

Teaching Method:  Lectures and discussion.

Evaluation:  One essay (2/3) and one exam (1/3)
PHIL112F  Marx and Marxism

Exclusions:  (PHIL77)  (PHIL55)
Prerequisites:  One course or half-course in Philosophy, Sociology, Political Science or Economics - PHIL110 is recommended but not required
Course description:  The philosophies of Marx, Engels, Lenin and others.
Instructor:  William Graham  Session:  Winter Day

Content and Evaluation:  This course is designed to provide the student with a basic and thorough understanding of the philosophy of Marxism, including its background and consequences. Lectures and discussions. Two papers, one on the early period and one on the later period, and an in-term reading test will comprise the term work. Emphasis will be placed on the relation of theory to practice in the everyday world. Students will be expected to participate in class work and discussion.


PHIL115S  Anarchism

Exclusions:  (PHIL110)
Prerequisites:  A study of major anarchists and problems of libertarian thought and practice; the impact of anarchism on social, cultural and political institutions; classical anarchists such as Proudhon, Bakunin, Krupetskii, Tolstoy, Kropotkin and others.
Instructor:  William Graham  Session:  Winter Day

Content and Evaluation:  "Others" (mentioned above) include Malatesta, Bakunin, Kropotkin and Emma Goldman. Lectures and discussions concerning the historical development of anarchism, its specific problems and implications. Freedom versus the state; and its specific relation to everyday life and practice in Canada and around the world. The reading will include an attempt to achieve a free contractual agreement between student and instructor in the anarchist manner. Texts will include, Michael Bakunin: Selected Writings, ed. Arthur Lehning, as well as other texts.

PHIL200S  Belief, Knowledge and Truth

Course description:  An examination of, among other things, certainty, the problem of scepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.
Instructor:  R.P. Thompson  Session:  Summer Evening

Content:  We will begin with the examination of the claim that knowledge is justified true belief. This will involve the detailed examination of the concepts 'justification' and 'truth'. We will then examine initiation into world views (conceptual schemes) and the web of belief as foundation aspects of knowledge.

Teaching Method:  Lectures and discussions.
Evaluation:  1 major essay (2/3)
1 exam  (1/3)

PHIL308  Existentialism

Exclusions:  (PHIL818)  (PHIL874)  (PHIL874)
Prerequisites:  One 3-level half-course in Philosophy
Course description:  A study of the views and approaches characteristic of such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre.
Instructor:  Robert Dorn  Session:  Winter Evening

Content:  The course has four main objectives: (1) to familiarize students with the work of some of the leading "existentialist" thinkers, including Kierkegaard, Nietzsche, Heidegger, Sartre and Jaspers; (2) to integrate existentialism with the development of some common themes; (3) to understand such thinking in its proper context; and (4) to emphasize its particular relevance to the quest for authentic self identity and a sense of existence.

Included among the readings are:
Nietzsche, The Gay Science
Sartre, Existentialism is a Humanism
Heidegger, Being and Time (selections), and others.
PL494F
Plato and his Predecessors I
Exclusions: (PHIL111); (PHIL653)
Course description: 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.
Instructor: P.W. Gooch Session: Winter Day
Objectives: To introduce students to the philosophy of Socrates as seen in Plato’s earlier dialogues; to develop a critical ability to read texts, to follow and assess arguments.
Content: A study of the central themes in Plato’s presentation of Socrates: the Socratic method, the paradoxes about virtue and knowledge, civil disobedience, the possibility of teaching goodness, the possibility of life after death. The course will present philosophy not as a set of doctrines but as a way of living: “the unexamined life is not worth living.”
Bibliography:
Either: Plato: Collected Dialogues, Pantheon
Or: The Last Days of Socrates, Penguin
Plato: The Symposium, Penguin
Evaluation:
A couple of very brief analytical papers; an essay; and an examination.

PL495S
Plato and Predecessors II
Prerequisite: (PHIL480).
Course description: A continuation of PHIL480.
Instructor: P.W. Gooch Session: Winter Day
Objectives: To continue the study of Plato’s philosophy begun in PHIL480: to develop an understanding of the themes of the middle and later dialogues of Plato; to encourage the growth of critical skills.
Content: The course will work through major themes in Plato’s Republic and develop those themes through other works of Plato. For instance: Plato’s theory of knowledge in the Theaetetus; his understanding of the relation between knowledge and love in the Symposium and Phaedrus; and issues in Plato’s psychology and ethics in some passages selected from other dialogues.
Bibliography:
Plato: Collected Dialogues, Pantheon
Evaluation: A seminar presentation; an essay; and an examination.

PL497F
Philosophy in the Later Modern Age I
Exclusions: (PHIL762)
Course description: An examination of selected texts of Kant, Schopenhauer and Nietzsche. Central questions will be the difference between reality and appearance, the nature of knowledge and morality.
Instructor: William Graham Session: Winter Evening
Content and Evaluation: The above course description is misleading and should be ignored. This course will consist of a study of the thought of the most important and influential modern philosophers such as Hegel, Schopenhauer and Nietzsche who are fundamental to an understanding of the age in which we presently live and to our everyday affairs and problems. Lectures and discussions concerning selected texts, available in the Fall. Term Work to be arranged by contractual agreement between student and instructor.

PL499S
Philosophy in the Later Modern Age II
Exclusions: (PHIL74); (PHIL631)
Course description: A study of the “Anglo-Saxon” analytic tradition: Frege, Russell, Wittgenstein, Strawson, Quine. Subject discussed mainly: the nature of what there is; the relation of language and reality.
Instructor: H.P. Thompson Session: Winter Night
Content: A detailed study of some of the works of Russell, Quine, and Frege.
Teaching Method: Lectures and discussions.
Evaluation: One essay (20%) and one exam (1/3)

MP280F
Symbolic Logic
Symbolic Logic II
(See listing under section for Joint Courses)
PHIL640  Existence and Reality

Course description: In perceiving, categorizing and classifying reality, certain basic concepts are employed. The course will consider problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, identity, causality, mind and value.

Instructor: D.L. Mosher  Session: BSSF Summer Night

Content: We shall examine in some detail, by way of lecture, reading material and discussion, the following problems of metaphysics.

1. The nature and function of metaphysical thought.
2. The nature of reality.
4. Mind, body and the person.
5. The world and God.

Text: To be announced later.

Evaluation: A major essay and a final examination.

PHIL811F  Philosophy of Religion

Course description: A study of such topics as the nature and existence of God, immortality, God and morality, and religious language and symbolism.

Instructor: D.L. Mosher  Session: Winter day

Content: We shall raise, discuss and attempt to answer a number of important questions about God as conceived by theistic religious belief, for it is these which lie at the heart of the most widespread religions traditions of Western civilization. In regard to these, we shall deal with four problem areas: (1) the attributes of God, (2) the language of theistic belief ("God-talk"), (3) religious experience and (4) faith and reason.


Evaluation: A major essay and a final examination.

PHIL740  Philosophy of Science

Prerequisite: One course or half-course in Philosophy or in the Division of Science.

Course description: A study of philosophical questions raised by the Natural Sciences. What is scientific explanation? Is what science does a science tell us what the world is really like? What is causality and does it play a significant role in science? How are theories justified?

Instructor: M.P. Thompson  Session: Winter day

Content: An examination of the logical structure of explanation, law and theory in the natural sciences.

Evaluation: One essay (2/3) and one exam (1/3).

PHIL841S  Theories of Mind

Prerequisite: One b-level course or half-course in Philosophy or Psychology.

Course description: An examination of the philosophical presuppositions of psychological theories such as those of Freud and Jung, behaviourism and existential psychology. Problems and issues in the relation of mind and body, conscious and unconscious, the meaning of mentalistic concepts and the analysis of dreaming will be studied.

Instructor: William Graham  Session: Winter Day

Content: From the above set of topics this course will consider behaviourism because it is not a theory of mind at all, but the course will concern itself with the image of the self.

Lectures and discussions. One term test. Other term work to consist of one or two written essays, or their equivalent in some medium of expression other than writing.
PHL365 Seminar in Philosophy: The U.F.O. Debate

Course Description: An analysis of the concepts, 'evidence', 'explanation', 'anomalous data', 'theory revision', and 'conceptual bias' as they relate to the U.F.O. phenomenon.

Instructor: R.P. Thompson Session: Winter day

Content: A study of the U.F.O. phenomenon (which is to be distinguished from extraterrestrial visitation) provides, along with parapsychological phenomena, an ideal subject matter for discussion of various aspects of the philosophy of science. Questions concerning the nature of evidence, the role of current theories in determining what is possible and improbable, the modes of explanation which are acceptable and appropriate to the U.F.O. phenomenon, and the requirements that must be met in order to justify a radical reconceptualization of the nature of the universe, are but a few of the important and substantial issues which arise in the U.F.O. debate. In the course we will examine screened reports (i.e. the most reliable and credible) of U.F.O.'s. These will be used as a basis for discussing the concepts of 'explanation', 'evidence', 'ideal observation', etc., as well as an examination of the various theories which have been advanced to explain U.F.O.'s.

Evaluation: One essay (2/3) and one exam (1/3).


PHL375 Seminar in Philosophy: Philosophical Issues in Biology

Prerequisites: PHIL070 or PHIL142; permission of instructor

Course Content: Discussions of reductionism, models of explanation, types of laws, the structure of theory in biology.

Instructor: R.P. Thompson Session: Winter day

Evaluation: To be determined at first class.

Teaching Method: Seminar discussions.

PHL388 Seminar in Philosophy: St. Augustine's Philosophical Dialogues

Prerequisites: Two 3-level half-courses in Philosophy.

Course Content: A study of selections from St. Augustine's purely philosophical dialogues with emphasis on such typically Augustinian concerns as mysticism, sin, grace, human nature, God and the soul, etc.

Instructor: D.L. Mosher Session: Winter day

Texts: St. Augustine, Against the Academic Heretics, The Happy Life of a Child, The Immaculate Strenuousness of the Soul, The 'Greatness' of the Soul. The Teachings and Free Choice of the Will. These texts are fully available in English translation in the series, Fathers of the Church.

Evaluation: A major essay and a final examination.

PHL398 Seminar in Philosophy: Games, Decisions and Social Choice

Prerequisites: Two 3-level half-courses in Philosophy; permission of instructor.

Instructor: J.H. Sobel Session: Winter day

Course Content: A survey of formal theories of rational decisions, the interaction of rational agents, the proper bearing of individual preferences on social policy, and the characteristics of rational cooperation. Specific topics taken up should include: problems for the 'rational man' of social choice, limitations on individual rationality in interaction (or 'game') situations; problems for social choice rules - the impossibility of satisfying various sets of seemingly proper conditions on such rules. Connections of decisions and issues in ethics and political theory will often be obvious and will sometimes be developed.

There are no specific prerequisites either in philosophy, mathematics, or science, but a certain intellectual acumen and capacity for abstract thought is required. This course should be of interest to a wide range of students with backgrounds in economics, political theory, philosophy, sociology, psychology, or mathematics.

Bibliography: (principal texts)
R.D. Luce and H. Raiffa, Games and Decisions.
A. Sen, Collective Choice and Social Welfare.

Evaluation: To be arranged.
Physics

Discipline Representative: J. W. Perk

Physics is the study of inanimate matter in action, and of the basic laws which describe how the parts of matter move, and how they influence each other. The effect of a star on the motion of a planet, or of the earth on the motion of a satellite, or of a neighboring atom, or of an atomic nucleus on an electron, may be described by a set of simple yet powerful 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 the understanding of electric and magnetic effects on beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles may be derived the properties of gases, liquids, solids, plasmas, and nuclear matter may be understood in terms of the interactions between the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat to the point where these enter our senses and of X-rays, 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 study both of Mathematics and of the techniques that are needed in the performance of accurate experiments.

Students intending to specialize in Physics are advised to select their courses in accordance with the requirements of either the major programme in Physics in the Mathematics and Physics.

Less intensive programmes are available for those whose major interests do not lie in Physics. Specifically, the pair of courses PHYS101 and PHYS102 cover many topics in Physics and the principles of their application to a number of areas of science. The laboratory course PHYS104 offers a wide spectrum of experiments for students of PHYS101 or PHYS102. Additional more specialized 2-level courses are also open to students who have completed the level Physics and Calculus courses.

The listed pre- and corequisites imply others not explicitly listed: details are available from the Physical Sciences Group Office (Room B-4704).

Students interested in Physics should also refer to:
NEAClY Introduction to Natural Science: Physical Science JMC101 Relativity and JMC215 Advanced Classical Mechanics
MAJOR PROGRAMME IN PHYSICS

Supervisor of Studies: A. E. Jacobs

Students should complete a minimum of fourteen courses in physics and mathematics, as specified below. An optional mathematics programme more suitable for students with interest in mathematics and physics or theoretical physics is specified in parentheses: such students might also consider the Mathematics and Physics major programme. It is essential that students choose the appropriate set of mathematics courses from the beginning, since transfers between the sets are severely restricted. It is recommended that all students take MAT4402.

(1) In the first year of full-time study (or equivalent):
   PHYS31; MAT311 (or MAT3402, MAT4402, MAT4403)

(2) In the second year of full-time study (or equivalent):
   PHYS32; PHYS516; PHYS618; PHYS818; PHYS828; PHYS898; MATH3402; MATH5402 (or MAT4402, MAT5452)

(3) In the third year of full-time study (or equivalent):
   PHYS41; PHYS513; PHYS518; PHYS818; JUNI4125; MAT4141; MAT4402; MAT4451; MAT4455;
   (or MAT4511; MAT5451; MAT5455; MAT5465)

† Can be taken in second or third year.

(4) In the fourth year of full-time study (or equivalent):
   Three 400-level (St. George) physics courses or JUNI510Y plus two 400-level physics courses.

MAJOR PROGRAMME IN PHYSICS WITH PHILOSOPHY

Supervisors of Studies: J. H. Pier (Physics) and R. E. Thompson (Philosophy)

Students should complete the following thirteen and one-half courses. The order in which some of the advanced philosophy courses are taken may be altered, depending on which courses are available in a given year. Students wishing to register for a full academic load must take an additional half course in philosophy in each year. Students must take an additional half course in a science subject as defined in the recommendations for the twenty-course programme. Each of the following is listed twice for variety.

(1) In the first year of full-time study (or equivalent):
   PHYS31; PHIL31; MATH241

(2) In the second year of full-time study (or equivalent):
   PHYS32; PHYS541; PHYS551; PHYS561; PHYS571; PHYS572; PHYS581; PHYS818; PHYS828; MATH3402; MAT4403; MAT4403

(3) In the third year of full-time study (or equivalent):
   PHYS33; PHYS41; PHYS541; PHYS551; PHYS561; PHYS572; PHYS581; PHYS618; PHYS818; PHYS828;
   MATH3402; MATH4403; MATH4403

(4) In the fourth year of full-time study (or equivalent):
   PHYS61; PHYS52; PHYS541; PHYS551; PHYS561; PHYS571; PHYS581; PHYS618; PHYS818; PHYS828;
   MAT4403

(5) PHIL and MATH41 are also recommended.
PHYS107 Electricity and Magnetism
Prerequisites: PHYS1A1 (recommended) or PHYS1A2
Corequisites: MAT191 or MAT190
Other Recommended Courses: MAT192 or MAT195; PHYS101 (a laboratory) would also be helpful.
Course Description: Electromagnetic; electric field and potential; electric currents; direct current circuits; nodal analysis and Kirchhoff's laws; electric potential; fields of moving charges; transformation of fields; electromagnetic waves; conservative force and wave propagation; introduction to electric and magnetic fields in matter; alternating current circuits.
Instructors: H.J. Lee / J.M. Perez Session: Winter Day
Teaching Method: Two one-hour lectures per week; one one-hour tutorial per week; one problem set per week. The emphasis will be on a thorough understanding of fundamentals, and on logical reasoning in proofs and problem solutions.
Evaluation: Term test in December; final examination in April/May; quizzes and problem sets - each to count for approximately 1/3 of the final grade.

PHYS207 Waves
Prerequisites: PHYS1A1 or PHYS1A2; MAT192 or MAT195
Course Description: Topics discussed include wave equations, superposition of waves, emission and absorption of waves, undulation, polarization, interference, and diffraction. Applications are made to sound waves, radio waves, light waves, surface water waves and waves on a string.
Instructors: TBD Session: Winter Day

PHYS307 Principles of Contemporary Physics
Exclusions: PHYS1A2, PHYS1A3
Prerequisites: PHYS1A2 or PHYS1A1; MAT192 or MAT194, or MAT195
Course Description: This course surveys the remarkable progress that has been made in understanding the physical world in the twentieth century. It is designed for students whose interests are in the life sciences or in interdisciplinary studies, and is a natural continuation of PHYS1A2. The topics include: special theory of relativity, relativistic dynamics, Maxwell's equations, electromagnetic waves, wave-particle duality, de Broglie waves, the Schrödinger equation, the hydrogen atom, atomic and molecular structure, the solid state, nuclear physics, the fundamental particles.
Instructors: H.J. Lee/TBD Session: Winter Day
Teaching Method: Two lectures and 1 tutorial per week. Problem sets will be discussed in detail in a weekly tutorial.
Evaluation: Christmas exam, final exam, mid-term tests, and problem sets.

PHYS303 Thermodynamics
Exclusion: CHM103
Prerequisites: MAT191 or MAT195, PHYS1A1 or PHYS1A2
Corequisites: MAT492
Course Description: General principles of classical thermodynamics including the first, second and third laws and applications. The lectures are the same as those for the spring term half of CHM103; problems oriented towards applications in physics will be provided.
Instructors: G.A. Kenne-Wallace/A. Griffin Session: Winter Day

PHYS401 Introduction to Quantum Physics
Exclusion: PHYS404
Prerequisites: PHYS104, MAT194 or MAT195
Course Description: Experimental evidence of the need for quantum physics (photoelectric effect, atomic spectra, matter waves, blackbody radiation, wave packets and the Schrödinger equation, energy quantization, tunneling, the harmonic oscillator, quantization of angular momentum and spin.
Instructors: P.J. O'Donnell Session: Winter Day
PHYS347
Special Relativity

Evaluations: [PACS82, PHYS906]
Prerequisites: PHYS61 or PHYS62
Instructor: A. Griffin Session: Winter Day

PHYS347Y
Quantum Physics

Prerequisites: PHYS601, MATH560 or (MATH91 and MATH92), PHYS917
Course Description: Introduction to the basic Ideas of quantum mechanics and to set applications in Modern Physics.
Instructors: A. Griffin/A.E. Jacobs Session: Winter Day

PHYS360
Electromagnetic Fields and Waves

Prerequisites: PHYS901, PHYS905 or (MATH91 and MATH92), PHYS917
Course Description: Electrostatic fields in vacuum and in dielectric materials; multipole expansion, polarization, polarization current density, susceptibility, forces on conductors, forces on dielectrics etc. Laplace's and Poisson's equations and their solutions in particular cases. Special relativity and the transformation laws obeyed by the fields and potentials. Magnetostatic fields in vacuum and in materials; induction, inductance, magnetic torque and pressure, magnetization, susceptibility, hysteresis, etc. Maxwell's equations and the propagation and reflection of electromagnetic waves in infinite media (free space, conductors, conductors and low-pressure ionized gas). Fourier's series and the Fresnel's equations, Brewster angle, total internal reflection, etc. Waves and oscillations T1, T2 and T3 waves. Radiation of electromagnetic waves: antennas.
Instructor: M.S. Walker Session: Winter Day

Bibliography:

Evaluation: Two term tests and problem sets.

PHYS381
Advanced Physics Laboratory

Prerequisite: PHYS600 and permission of instructor
Corequisites: PHYS901
Course Description: A selection is made of a number of advanced and specialized experiments illustrating fundamental principles and techniques in Physics. Limited enrollment - 20
Instructors: M.J.G. Lee/J.M. Pers Session: Winter Day

Objectives: This course is designed to involve students in some form of hands-on experiments, introducing them to yet untaught techniques, projects, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be expected to take the initiative in overcoming experimental difficulties.

Teaching Method: A six-hour laboratory period once every two weeks. A single experiment may extend over more than one period.

Evaluation: This will be based, with equal weight, first on the performance of the experiments and recording of observations and data, and secondly on four formal reports.

PHYS445
Statistical Physics

Evaluation: [PHYS601]
Prerequisites: PHYS901
Course description: Studies of entropy, thermodynamics and statistical mechanics; with applications including the kinetic theory of gases; paramagnetism, the specific heats of gases, isotope separation and phase transitions.
Instructor: P.J. O'Donnell Session: Winter Day

PHYS547
Quantum Physics

Prerequisites: PHYS901, PHYS905 or (MATH91 and MATH92), PHYS917
Course Description: Introduction to the basic Ideas of quantum mechanics and to set applications in Modern Physics.
Instructors: A. Griffin/A.E. Jacobs Session: Winter Day

PHYS581
Advanced Physics Laboratory
Assistant Chairman: R.J. Sandbrook

There is no concise and satisfactory definition of "politics". Thus it has been suggested that politics is "the art of the possible", that politics is about the resolution of conflict and accommodation of diverse interests, that politics is about power and "the art of the possible", that politics is about "the Good", and so forth. Indeed, a sense of the study of politics in a continuing exploration of the nature and limits of human knowledge about the world in which we live. Above all, politics is wise to start with ordinary usage, and to explore its implications, rather than to begin with and a formal definition.

The academic study of politics ranges from philosophical speculations to the empirical analysis of political behaviour. As a discipline it is loosely constructed, although in recent years a more rigorous method has been employed in several fields. In fact, the scope of the subject reveals the impossibility of clearly separating Political Sciences from other social sciences, even when the discipline of Political Sciences itself is customary to recognize the existence of several major fields, i.e., Political Theory, International Relations, Comparative Government, Political Behaviour and Public Administration.

The Political Science Programme at Scarborough College offers a broad and varied selection of courses from every field within the discipline. It is designed to: 1) satisfy the needs of students who intend to pursue graduate study in Political Sciences or such fields as law, social science and business professions; 2) prepare students who wish to go on to advanced graduate study within political sciences; 3) offer an interesting range of courses to students who wish to explore in a less structured way the important questions of political inquiry.

Courses may be taken in varying sequences and combinations, leading to specialist certification for those completing an approved 10-course load over four years, or to certification for the completion of an approved specialized study programme of recognized academic merit.

**COURSE AND PROGRAMME SELECTION**

Students who intend to pursue some degree of specialization in Political Science should, at an early stage, draw up a preliminary programme of study in consultation with a member of the Political Science Staff.

The recommended sequence of courses would begin with an introductory course at the A level (POL 29) Introduction to Political Studies. Students interested in political science at the B level (POL 293) Introduction to Political Science (Comparative Politics). Students interested in domestic politics and careers in government should begin with POL 294 since it is a pre-requisite for advanced courses in Canadian Government and Politics. Students intending to seek certification should register by filling the appropriate registration form with the Divisional Secretaries in 2501. An orientation meeting will be scheduled in the early fall to help familiarize students with the faculty, course materials, and course selection.

**MAJOR PROGRAMMES IN POLITICAL SCIENCE**

Supervisor: M.W. Donnelly

Students should complete at least ten courses in Political Science including:

1. no more than two courses at the Introductory level
2. two courses in Political Theory
3. one course in Canadian Government
4. a course in any of the following four fields: International Relations, Comparative Government (Developed); Comparative Government (Developed); Political Behaviour

**POL 290** The Introduction to Political Studies

Course description: This course seeks to introduce students to political theory by a focus upon an area of major concern for Canadians: the applicability of theories and notions respecting the liberal-democratic state to Canadian situation. Instructor: J.S. Colman, J. Eskenazy Session: Winter Day

Content: In the first term the main questions in the theory of liberal democracy will be raised, in order to work towards an understanding of what "liberal democracy" means and what principles are involved in it. In the second term the Canadian political system will be analyzed in order to discover to what extent and in what manner these principles can be applied in Canadian political institutions and society. Where necessary comparisons will be made with other liberal democracies.

Teaching Method: Two hours of lectures, with discussion, and one tutorial hour per week. Attendance at lectures and tutorials is required.

Evaluation: Final examination (50%) and an essay each term (25% each). Readings Lists: These will be distributed in class or are available earlier on request.

**POL 290** Introduction to Political Theory

Course description: The purpose of the course is to introduce the student to some of the more important perspectives on political order and the modes of freedom compatible with such order. Some of the thinkers discussed will be Machiavelli; Hobbes; Aristotle; Rousseau; Burke and Marx.

Instructor(s): C. Andrew; S. Solomon Session: Winter Day

Evaluation: Two essays, one each term will be worth 50% of the final mark. A final examination constitutes the other 50%.

**POL 290** Canadian Government and Politics

Exclusion: POL 291 prior to 1973-74

Course description: A study of Canadian political institutions and processes.

Instructor: R. Blair Session: Winter Day

Contents: Specific topics include: the constitution, federalism, federal relations, political regionalism, class and politics, Quebec, political parties; interest groups, representation, Parliament, Cabinet, legislation, interest groups, the public service, policy-making.

Teaching Method: 2 lectures and 1 tutorial weekly.

Evaluation: 2 essays
1 term test
1 final examination
POL207Y Political Thought of the Eighteenth and Nineteenth Centuries
Course description: A study of the major political philosophers of the eighteenth and nineteenth centuries.
Instructor: R.J. Colman
Session: Winter Day
Summer Evening
Content: Students will be expected to study the principal relevant works of Rousseau, Hegel, J.S. Mill and Marx. These writers will be dealt with thoroughly in lectures and tutorials. Less extensive attention will be paid to Montesquieu, Rome, Kant, Burke, Bentham, Toqueville and T.H. Green.
Teaching method: Two hours of lectures, with discussion, and one tutorial hour each week. Students are expected to attend the lectures. The tutorials are voluntary.
Evaluation: Final examination (40%) and four short papers (15% each).
Reading list: These will be distributed during class or are available earlier on request.

POL308Y Political Thought from Plato to Locke
Instructor: E. Andrew
Session: Winter Day
Evaluation: Term work and a final examination.

POL309Y International Relations
Course description: The nature of the international system: the factors that motivate foreign policies; and the institutions for the conduct of international relations. The purpose of the course is to help the student develop intellectual tools with which to analyze politics at the international level.
Instructor: T.R.A.
Session: Winter Day
Evaluation: A combination of essays and examinations. Specific details to be settled at the first meeting.

POL407Y Politics and Society in Independent Africa
Prerequisite: None, but a course in introductory political science would be helpful.
Course description: Although the focus of this course is independent Africa, it is about the generic problems of underdevelopment in the third world and the possibilities for progressive change. The three major questions with which the course grapples are the following: To what extent is the fate of poor African countries determined by such external factors as the colonial legacy and what is often referred to as "neo-colonialism" or "neo-imperialism"? To what extent are progressive developmental policies blocked by the power of new vested interest groups created by rapid political and economic change in African countries? What are some of the major political institutions and development strategies through which governments seek to direct change, and how effective are their efforts, given the constraints upon their freedom of action?
Instructor: T.R.A.
Session: Winter Evening
Evaluation: 1 research essay, 1 seminar presentation, and a final examination.

POL406Y Intergovernmental Relations
Prerequisite: POL308Y
Course description: An examination of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.
Instructor: J. Eaberry
Session: Winter Day
Content: The initial emphasis is placed on an examination of three core studies of federal provincial interaction. The basic premise is that, forward in these studies will then be examined in relation to other areas of intergovernmental relations.
Teaching method: a two hour lecture seminar each week.
Evaluation: A combination of examinations, essay and class discussion. Specific details to be settled at first meeting.
Additional comments: Active participation in class discussion and regular preparatory reading for seminars is essential.

POL407Y Soviet Government and Politics
Course description: The development of Soviet political and social institutions since 1917, with emphasis upon the process of modernization and its effects.
Instructors: S.G. Solomon and T.J. Colton
Session: Winter Day
Evaluation: A combination of essays and examinations. Specific details to be settled at the first meeting.
POLS 384Y Psychology and Politics  
Course description: An introductory workshop in applied psychology. This course explores some of the areas in which our understanding of the political process has benefited from the application of psychological knowledge. The lecture/discussion period will be conducted with a general overview of the literature in the field and students are encouraged to undertake further detailed research in areas where they have the necessary psychological or political science background. During the fall term the focus will be on conflict in political systems and political corruption. In the spring term the focus will be on human nature and politics and the influence of personality factors.
Instructor: J. Saberay  
Session: Winter Evening
Evaluation: A combination of examinations, essays and class discussion. Specific details to be settled at the first meeting.

POLS 385Y U.S. Government and Politics  
Course description: A general examination of national institutions and political processes in the United States with special emphasis on the role of presidential leadership in policy making.
Instructor: M.W. Donnelly  
Session: Winter Day
Evaluation: An analytical essay, two one-hour examinations during term, and a final exam of two hours.

POLS 386Y Twentieth Century Political Thought  
Course description: A study of some of the major developments in political thought in the 20th Century.
Instructor(s): S. Solomon (day)  
Session: Winter Day
Evaluation: Subject to the granting of an exemption examination by the College, the student will be evaluated on the basis of written papers.

POLS 387Y Political Behaviour  
Course description: An introduction to the analysis of Political Behavior. This course will examine the empirical and theoretical efforts of political scientists to discern the social, cultural and personal foundations of political behaviour. Special consideration will be given to the problem of political ideology.
Instructor: T.R.A.  
Session: Winter Day
Teaching Method: Lectures and discussion.
Evaluation: 3 or 4 one-hour in-class tests: 3 short critical analyses of 5-8 pages.

POLS 388Y Urban Politics  
Course description: An examination of the politics of government in urban areas: the city as a unit of political analysis and action; urban planning; urban political institutions; problems in providing social services in cities; patterns of decision-making and political participation. Emphasis will be on urban politics in Canada and the United States. Students will be expected to write a paper on a problem in the politics of Metropolitan Toronto.
Instructor: T.J. Colman  
Session: Winter Day
Evaluation: 1 research paper, 1 term test, a final examination.

POLS 389Y Politics of the Third World  
Course description: The emphasis in this course will be upon the effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporation, and Western security. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana and Kenya.
Instructor: R. Sandbrook  
Session: Winter Day
Evaluation: 2 book reports, 1 essay, and a final examination.

POLS 390Y Politics and Society in Contemporary Japan  
Course description: An analysis of politics and government in contemporary Japan. Special attention will be given to social and cultural explanations of political behavior. The contributions of government policy toward achieving "miraculous" economic growth will be considered.
Instructor: M.W. Donnelly  
Session: Winter Day
Teaching Method: Lectures and discussion.
Evaluation: 1 paper 2 essays class participation

POLSC 391Y Supervised Reading  
Prerequisite: One B-level course in Political Science; permission of instructor
Course description: Advanced reading programme in special topics.
Instructor: Staff  
Session: Winter Day
Evaluation: One or more research essays.
POL 341
Comparative Communism
Prerequisite: One 3.0 course in Political Science
Course Description: An analysis of society and politics in a variety of countries currently governed by Marxist-Leninist parties.
Instructor: T.J. Colton  Sessions: Winter Day
Evaluation: a combination of short reports and a final examination.

POL 344
Multinational Corporations and Underdevelopment
Prerequisite: One Social Science course dealing with the third world
Course Description: This course will assess the impact of these large, Western-based firms upon the politics and economies of selected countries in Africa and Latin America. Particular attention will be placed upon the strategies, both in operation and in prospect, to control the firms and extract the maximum benefit from their operations for the poor. There will be case studies of multinational firms engaged in both primary production and manufacturing in underdeveloped countries.
Instructor: R. Sandbrook  Session: Winter Day
Evaluation: seminar presentation, an essay and a final examination.

POL 355
Canadian Problems in Comparative Perspective
Prerequisite: One of: POL 201, 203, 204, 214.
Course Description: An analysis of some of the major issues in contemporary Canadian politics in terms of the ways similar problems are handled in other Western developed nations.
Instructor: J. Eberly  Session: Summer day & Winter Day
Contents: Topics covered will include: political leadership - its selection and control; political accommodation in segmented societies; and one of: control of foreign ownership, regionalism, financial problems in a federal state, state control of industry and development; secrecy, electoral systems, ideological parties, opposition, political role of trade unions, protection of civil rights, problems of nationalism.
Teaching Method: a weekly two-hour lecture seminar.
Evaluation: A combination of examinations, essays and class discussion. Specific details to be settled at first class meeting.
Additional Note: Active participation in class discussion and regular preparatory reading for seminars is essential.
Psychology

Psychology is that branch of science which seeks to understand behavior and experience. Why humans and other animals act as they do is a puzzle which has always challenged mankind. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. But the methods of scientific inquiry can also be applied to an understanding of behavior.

The areas of interest which psychology encompasses include: how organisms perceive their environment; how they learn and adapt; how they change over their lifetimes; how they choose among alternative courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behavior; how their behavior relates to physiological functions; and how individuals differ from each other. The course offerings in Psychology consider how psychologists pursue inquiries into these areas and what knowledge they have gained.

Students interested in Psychology and planning to enter teaching or research professions should consider following the major programme in Psychology. Students who are interested in proceeding to the graduate level in Psychology should aim for a well-rounded undergraduate programme rather than narrow specialization in the area which is of immediate interest. The experience which is provided by the Thesis (C789) is of particular value to prospective graduate students.

It will often be appropriate to include as well courses in other disciplines, such as Anthropology, Biology, Computer Science, Linguistics, Mathematics, Natural Science, Philosophy, and Sociology. The following courses merit special attention:

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<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTH151</td>
<td>Introduction to Anthropology</td>
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<tr>
<td>ANTH201</td>
<td>Complex Societies</td>
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<td>ANTH211</td>
<td>Cultural Evolution</td>
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<td>ANTH301</td>
<td>Private Behavior</td>
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<tr>
<td>BIOL301</td>
<td>Introductory Biology</td>
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<td>BIOL311</td>
<td>Genetics</td>
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<td>BIOL312</td>
<td>Animal Populations and Evolution</td>
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<td>BIOL313</td>
<td>Epidemiology</td>
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<td>BIOL317</td>
<td>General and Comparative Physiology</td>
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<tr>
<td>CSCI260</td>
<td>Computer Programming</td>
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<td>CSCI360</td>
<td>Programming Applications</td>
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<td>LING351</td>
<td>Psycholinguistics</td>
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<td>LING364</td>
<td>Introduction to Language</td>
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<td>MATH311</td>
<td>Techniques of Calculus</td>
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<td>SCIS301</td>
<td>Introduction to Natural Science: Physical Science</td>
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<tr>
<td>SCIS302</td>
<td>Introduction to Natural Science: The Biological Sciences</td>
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<td>PHIL101</td>
<td>Historical Questions of Philosophy</td>
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<td>PHIL201</td>
<td>Belief. Knowledge and Truth</td>
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<td>PHIL203</td>
<td>Philosophy of Science</td>
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<td>PHIL410</td>
<td>Theories of Mind</td>
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<td>SOCI101</td>
<td>Introduction to Sociology</td>
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<td>SOCI201</td>
<td>Structure of Interpersonal Relations</td>
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<td>SOC301</td>
<td>Small Groups</td>
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<td>SOC410</td>
<td>Sociology of Deviant Behaviour</td>
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</tbody>
</table>

Members of staff are available for consultation in the planning of your programme in Psychology.

MAJOR PROGRAMME IN PSYCHOLOGY

This programme is taken as part of the 20-course degree programme.

**Supervisor of Studies:** J. W. Basili

Nine full-course equivalents in Psychology including:

1. PSYAO1 or (AGS)
2. PSYBO7
3. At least one full-course equivalent from among PSYB09, B11, B40, B41, B52, B62.
4. At least one additional full-course equivalent from the B-level 15-, 20- and/or 35-series.
5. At least one additional full-course equivalent from the B-level 45-, 60- and/or 75-series.
6. At least one additional full-course equivalent from the B-55 series.

7. At least two full-course equivalents at the C-level. Not more than one full-course equivalent selected from C30, C35, and C48 may be offered in satisfaction of this requirement. All 400-level courses on the Georgian campus are considered to be at the C-level. Only some 500-level courses are treated as C-level courses; the student is advised to check the table of course equivalents in Psychology.
Introduction to Psychology

Course description: The basic principles and methods of contemporary psychology. Emphasizing their contribution to an understanding of the interaction between human and other organisms, how their behavior is modified by experience, and how their activities are initiated, sustained, and directed.

Instructor: B. Richardson

Session: Summer

Content: The physiological basis of behavior, particularly the functioning of the nervous system; learning, and the importance of past experience in behavior; perceiving, thinking, and reasoning; intelligence: language; motivation and emotion; social behavior; personality, and abnormalities of behavior and experience.

Teaching method: Two three-hour lectures per week. Lectures include discussion, demonstrations, films and laboratory exercises (TBA).

Bibliography: One comprehensive text and one book of relevant readings. The titles for summer, 1978 have not yet been selected.

Evaluation: There will be two term tests during the course (45%), a final examination (40%), laboratory reports (15%).

Data Analysis in Psychology

Course description: Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behavior of an individual is explained by observing the behavior of many. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (so the solution of simple linear equations in one unknown) is assumed.

Instructor: T.B.A.

Session: Summer

Additional Comments: Students concerned about the sufficiency of their background in mathematics should consult R.M. Walker's Mathematics Essential for Elementary Statistics (available in the College library) for a detailed survey of the skills required.

Teaching method: Lectures, tutorials, and homework assignments.

Evaluation: Homework and two exams.

Data Analysis in Psychology

Course description: Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behavior of an individual is explained by observing the behavior of many. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (so the solution of simple linear equations in one unknown) is assumed.

Instructor: R. Brown

Session: Winter

Content: Courses in data analysis typically cover the same topics areas: identification, classification, and reduction of the data are generally the prerequisites on the basis of which data are described. The course stressing that hypothesis testing, of course, is empirical and nonparametric tests discussed.

Teaching method: Four hours of lecture (with in-class problem solving) and one hour of tutorial per week.

Evaluation: The final course grade is based on problem sets and brief quizzes (20%), two term tests (20% each), and a final examination (40%)
PSYB05
Experimental Design in Psychology
Exclusion: MATC12
Prerequisites: PSYB07 or MATE12
Course Description: The course extends the range of techniques examined in PSYB05. 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.
Instructor: F. Elkner
Session: Winter Day
Content: The analysis of variance has played a central role in the design and interpretation of psychological research. The course focuses on this research tool providing the rationale and mechanics of its use.
Teaching Method: Three hours of lecture and one hour of tutorial per week.
Evaluation: The final course grade is based on problem sets and brief quizzes (20%), two term tests (20% each), and a final examination (40%)

PSYB07
General Experimental Psychology
Prerequisites: PSYB01 or PSYB201 or SIGA03
Course Description: The experimental technique of Psychology as applied to problems in learning, motivation and perception in humans and non-human organisms. This course emphasizes research methods of Psychology and is intended to provide a broad foundation of basic information and research techniques required in specialized laboratory courses and advanced courses.
Instructor: G. B. Blasinsky
Session: Winter Day
Content: Provides introduction to methodological design problems in Psychology in an empirical rather than statistical framework; i.e., how did you find out, rather than, what did you find?
Other Recommended Courses: Prior or concurrent enrolment in PSYB37
Evaluation: Normal lectures will be given, but a "workshop" content will be employed. Course will be utilized and following each unit a test will be given. Course work will be "ungraded" for credit purposes and "graded" by instructor and/or student. Practice exams may be retained as desired. A comprehensive final exam will represent 40% of total course grade. There will be laboratory units associated with the content units. Manuals will be given at the beginning of each laboratory and the student will be expected to answer questions posed. Laboratory assignments will gradually increase in difficulty over the term. Development of laboratory report writing will be facilitated by requiring that certain sections of a standard laboratory report be completed in any given unit. The laboratory assignments will comprise 40% of the total grade.

PSYB07/F
Introduction to Social Psychology
Prerequisites: PSYB01 or PSYB201
Course Description: Social Psychology focuses on the problem of how human behavior is influenced by others. The course is designed to introduce some phenomena of social behavior and to present theories and research evidence relating to these phenomena.
Instructor: John Bassili
Session: Winter Evening (F)
Content: The course begins by considering processes of social influence (e.g., obedience, conformity, and attitude change), theory, and theories of aggression. Processes of self-perception (e.g., the perception of one's own emotions), and processes of social perception are presented in the latter portions of the course.
Teaching Method: Lectures and tutorials
Evaluation: 3 one-hour lecture examinations.

PSYB11
Social Psychology Laboratory
Prerequisites: PSYB07, PSYB10
Course Description: This course will provide in-depth the research methods used to gather data discussed in PSYB10 and PSYB12. Students will gain experience with various methodological approaches employed in social psychology. Limited enrollment: 15
Instructor: Karen Pino
Session: Winter Day
Content: Students will be introduced to conceptual and practical issues concerning research designs relevant to Social Psychology. In addition to conducting experiments using such designs, students will be exposed to arguments relating to the relative merits of different approaches (e.g., experimental vs. correlational evidence).
Teaching Method: Lectures-discussions and laboratory work.
Evaluation: Independent project: one class exam; one laboratory report.

PSYB12
Advanced Social Psychology
Prerequisites: PSYB10
Course Description: Paradigm change in social psychology; the role of descriptive and experimental methodologies; attribution theory; emotion theory; subjective and objective judgment (judgment processes); judgment of emotional expressions, individual differences in social psychological processes.
Instructor: C. Couture
Session: Winter Evening
Content: Beginning with a discussion of appropriate methodologies for the investigation of social phenomena, the course considers the dominant viewpoints in contemporary social psychology. The discussion then turns to specific and yet related problems of attribution theory, internal and external control, coping with stress, subjective and objective judgments and the judgment of emotional states.
Objectives: To attempt a critical analysis of developments in social psychology through an examination of the theories, methods and results of recent research.
Evaluation: Term multiple choice, final multiple choice.
PSY2108 Developmental Psychology
Prerequisites: PSY101 or (PSY201)
Course description: This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g., Piaget’s cognitive theory, social learning view. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child, e.g., social attachment, intelligence, sex-roles and achievement.
Instructor: R. J. Brown Session: Summer Day
Content: The course focuses on developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social-developmental perspectives.
Teaching Method: Four lecture hours plus two tutorials per week.
Evaluation: Information will be available during the summer registration period.

PSY2020 Developmental Psychology
Prerequisites: PSY101 or (PSY201)
Course description: This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g., Piaget’s cognitive theory, social learning view. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child, e.g., social attachment, intelligence, sex-roles and achievement.
Instructor: Karen Dion Session: Winter Day
Content: The course focuses on developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social-developmental perspectives.
Teaching Method: Two lecture hours plus one tutorial per week. The purpose of the third hour is to provide an opportunity for students to discuss lecture and reading material in smaller class sections.
Evaluation: Information will be available in the fall.

PSY2008 Developmental Psychology
Prerequisites: PSY101 or PSY201
Course description: This course is divided into two parts. The first examines broad frameworks which have been offered to explain human development, e.g., Piaget’s cognitive theory, social learning view. The second part focuses on selected research areas which deal with different aspects of social and cognitive development in the infant and child, e.g., social attachment, intelligence, sex-roles and achievement.
Instructor: T.B.A. Session: Winter Evening
Content: The course focuses on developmental processes during infancy and childhood. Material covered will be drawn from both cognitive and social-developmental perspectives.
Teaching Method: Two lecture hours plus one tutorial per week. The purpose of the third hour is to provide an opportunity for students to discuss lecture and reading material in smaller class sections.
Evaluation: Information will be available in the fall.

PSY2104 Personality
Prerequisites: PSY101 or (PSY201)
Course description: How psychologists study the individual and his behavior. Examples of both the traditional broad theories of behavior (e.g., Freud’s psychodynamic theory) and the more contemporary research-oriented “miniature theories” will be discussed. The specific research areas which are covered vary somewhat from year to year. Achievement motivation, manifest anxiety, attraction, intelligence, computer models of personality, curiosity and exploratory behavior, personality assessment and non-verbal behavior are some of the topics which may be included in any given year.
Instructor: A. Kida Session: Winter Day
Objectives: To obtain an understanding of the various ways in which the human organism has been conceived by scientific psychologists, and the kinds of research questions and methods which each conception has generated.
Content: Specific topics vary from year to year.
Teaching Method: Three hours lecture weekly.
Bibliography: Readings consist mainly of original research reports from scholarly journals.
Evaluation: Two essay examinations each of which counts 50% of the final grade.

PSY3107/S Abnormal Psychology
Prerequisites: PSY101 or (PSY201)
Course description: A critical examination of psychoanalytic, E.A., cognitive-interpersonal, biological and phenomenological views concerning the cause and treatment of abnormal behavior. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.
Instructor: J. Paecker Session: Winter evening both terms
Objectives: Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints in hypothesis, model and theory development, including genetic physiological, stress, medical-psychoanalytic, psychosomatic, social-learning, and sociological; classification systems, including problems in their reliability and validity; the role of naturalistic and experimental approaches; the role of case history, personal, social, and other behavioral disorders of adults and children, including cognitive, emotional, memory-perceptual, psychosomatic, and other support; approaches, methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behavior, within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.
Teaching Method: Mainly lecture, with some use of audiotapes, videotapes, and film.
Evaluation: Three examinations, multiple-choice.
PETR94F  
Learning  
Prerequisite:  PSY101 or (PSY101D); PSY102; PSY107 or MAT101  
Course description: Critical review of basic theories and issues in the psychology of learning, with selected laboratory exercises in animal learning. An introduction to research methods and techniques in the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning principles, theory construction.  
Instructor: G. D. Biederman  
Session: Winter Day  
Content: Provides theoretical and empirical experiences relevant to basic concepts and current problems in learning and motivation.  
Evaluation: Same method as in PSY 100F.  

PETR94T  
Behavior Modification: Origins and Applications  
Prerequisite: PSY101  
Course description: A survey of attempts to understand and regulate human behavior in non-laboratory settings founded on principles derived from the learning and conditioning laboratory. A critical analysis of current applications and systems of behavior modification and control.  
Instructor: P. Flajmer  
Session: Winter Evening  
Content: Specific content TBA.  
Teaching Method: Three hours of lecture per week.  
Evaluation: TBA.  

PETR54F  
Sensation and Perception  
Prerequisite: PSY101 or (PSY102)  
Course description: An investigation into the processes by which we gain information about the world around us, and the laws which govern the way in which that information is used to construct our perceptions.  
Instructor: J. B. Poley  
Session: Winter Evening  
Content: Stimuli for the human senses, especially light and sound; receptor and sensory pathways with emphasis on vision; sensitivity; colour and tone; spatial and temporal resolution; contrast; perception of space and movement; perception of pattern and form.  
Teaching Method: Lectures, for which preparatory reading will be important, and classroom demonstrations of many phenomena under discussion.  
Evaluation: A final examination and term assignments including tests and some short paper(s) or report(s).  

PETR55S  
Human Information Processing  
Prerequisite: PSY150, PSY107 or MAT151; PSY105  
Course description: Recently Psychology students have begun to lay great emphasis on the way in which the human being actively and constructively processes information rather than merely responding passively to stimulation. The course introduces these ideas in their applications to perception, memory, cognition, with special emphasis on quantitative studies. Selected laboratory exercises.  
Instructor: K. C. Smith  
Session: Winter Day  
Objectives: This course is designed to introduce students to one approach to understanding human behavior - an approach whereby the behavior is analyzed into a series of discrete steps or processes, each of which could be influenced by a variety of factors. The way in which attention and method of processing act at each stage is considered.  
Teaching Method: This course meets 3 hours per week. Every other week there is only one hour of lecture and a 2-hour lab, giving a total of 5 hours per session.  
Evaluation: There are two term tests, each of which comprises 25% of the total grade. The remaining 50% of the grade is based upon the written lab reports.  

PETR57G  
Human Learning and Memory  
Prerequisite: PSY101 or (PSY102)  
Course description: Memory is discussed in an information-processing framework, where the mind is viewed as actively receiving, modifying, storing, and retrieving information. The course attempts to provide a broad review of the current state of the current research.  
Instructor: T.B.A.  
Session: Winter Day  
Teaching Method: Three lecture hours per week.  
Evaluation: T.B.A.  

PETR65F  
Brain Mechanisms and Behaviour: I  
Prerequisite: PSY101 or (PSY102), PSY 265 is recommended for students with no Biology background.  
Course Description: Students with prior credit for PSY105 or PSY107 may take PSY165 for credit. PSY165 and PSY166 deal with the relationship between structure and function of the nervous system. Topics covered in PSY165 include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception.  
Instructor: T. Petri  
Session: Summer Evening  
Objectives: To give the student a firm grasp of the structure and function of the nervous system and its role in the behavior of an organism.  
Course Content: Neuroanatomy, structure and function of neurons, neurophysiology, and neural mechanisms of sensation and movement.  
Teaching Method: Two hours lecture and one hour of tutorial per week in Summer, 4 hours lecture, 2 hours lab or tutorials.  
Evaluation: Two term examinations on the lecture and book each worth 40%, and one exam on neuroanatomy, worth 20% of the final grade.  

Brain Mechanisms and Behaviour II
Physiology of Motivation and Learning

Prerequisites: PSTN40

Course Description: This is a continuation of PSTN40. Topics covered under the category of Motivation will include physiological basis of eating, drinking and sexual behavior; sleep; and the neural correlates of reward. Topics covered under Learning include: physiological processes of memory, structural basis of learning and memory, biochemistry and memory.

Instructor: N. Brown
Session: Winter Day

Content: The course is designed to provide students with an understanding of the physiological substrates underlying behavior. Sessions will center around current topics in physiological psychology and will draw on recent research to support or challenge current theories in motivation and learning. In motivation, the general areas of feeding, sexual behavior, and reinforcement will be discussed from neurological and neuropharmacological perspectives. Neurophysiological basis of learning and memory will be dealt with and then integrated with motivational models to provide a basis for understanding brain function in behavior.

Teaching method: Three hours of lecture per week with occasional discussions.

Evaluation: The final course grade is based on term assignments (30%), a mid-term examination (25%), and a comprehensive final examination (45%).

Research in Physiological Psychology

Prerequisites: PSTN10 or (PSTN10 and PSTN30) or MATH25

Corequisites: PSTN30, PSTN40

Course Description: Students learn how to use a variety of techniques used in investigations of nervous system function. The course is intended for students intending to pursue a major degree in either psychology or biology and who are particularly interested in the neuroscience.

Instructor: W. W. Milgram
Session: Winter Day

Content: The course starts out with a dissection of a sheep brain. Subsequently, the procedures covered include: (1) histology (preparing, cutting and staining neural tissue); (2) lesioning specific regions of the central nervous system; (3) chemical synapse preparation; (4) extracellular recording from the brain; (5) programming relay circuitry; (6) electrophysiological recording techniques.

Teaching Method: Two hours of lectures a week; 3 hours of scheduled laboratory work and, in addition, students generally spend several hours of their own free time working in the student laboratory.

Evaluation: This extremely difficult course involves a series of five laboratory projects, 3 mid-term examinations and one final examination.

Biological Foundations of Behaviour

Exclusion: PSTN40

Course Description: Students with prior credit for PSTN40 may not take PSTN60 for credit. Examines the structural and physiological basis of behaviour. It is geared towards non-biologically oriented students.

Instructor: T. Petit
Session: Winter Evening

Content: Structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of human behavior. Once these basic fundamentals are covered the course then focuses on the following: Principles of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes, sensitivity, mental deficiency and speech disorders); drugs of the central nervous system (stimulants, depressants, and hallucinogens); the biological basis for violence; schizophrenia, depression, psychosis and anxiety.

Teaching Method: 3 hours lecture weekly.

Evaluation: Two exams: mid-term and comprehensive final, 50% each.

Comparative Psychology

Prerequisites: PSTN10 or (PSTN10 and PSTN20)

Course Description: Comparison of psychological and ethnological approaches to the problems of the structure, causation, ontogeny, and phylogeny of behaviour.

Instructor: N. W. Milgram
Session: Winter Day

Content: The course starts out with an historical survey of comparative psychology. The ethological (ecological) programme is then discussed and analyzed. Some discussion of genetic, behavioral, genetics and evolutionary theory is included in the course. The behavioralistic (ontogenetic) perspective is the next topic discussed. This is, in many ways, the antithesis of the ethological perspective. The final topic considered is some contemporary developments in animal learning.

Evaluation: Will be available before the beginning of term.

Current Topics in Social Psychology

Prerequisites: PSTN10 or (PSTN10 and permission of Instructor)

Course Description: An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25.

Instructor: Valerie Hans
Session: Summer Evening

Content: The course will examine the ways in which psychological research can be used to answer questions of applied significance in the criminal justice system. Topics to be discussed include: judicial system, social psychological aspects of crime, procedure, verdicts, sentencing, and parole.

Teaching Method: Lectures, seminars

Evaluation: T.B.A.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Course Description</th>
<th>Instructor</th>
<th>Session</th>
<th>Content</th>
<th>Teaching Method</th>
<th>Evaluation</th>
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<tbody>
<tr>
<td>PSYC153</td>
<td>Current Topics in Social Psychology</td>
<td>PSYB12 or PSYB10 and permission of instructor</td>
<td>An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25.</td>
<td>John Bassil</td>
<td>Winter Day</td>
<td>The course will review the development of important theoretical and empirical approaches to the study of social perception. These will include the &quot;New Look&quot; approach, impression formation, attribution theory, and the perception of emotions and social interaction.</td>
<td>Lectures and discussions</td>
<td>Two 1-hour examinations; 1 term paper.</td>
</tr>
<tr>
<td>PSYB10</td>
<td>Current Topics in Developmental Psychology</td>
<td></td>
<td>An intensive examination of selected issues and research problems in developmental psychology. Limited enrolment: 25.</td>
<td></td>
<td>TBA</td>
<td>The specific content will vary from year to year with the interest of both instructor and students. For 1978-79 TBA.</td>
<td>Lectures, discussions, and oral presentations</td>
<td>T.B.A.</td>
</tr>
<tr>
<td>PSYC22P</td>
<td>Socialization Processes</td>
<td>PSYB10, PYSB10</td>
<td>Covers the processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content (the development of specific social behaviors) and the context in which it occurs. Material will be drawn from both Social and Developmental Psychology. Limited enrolment: 25.</td>
<td>Karen Dion</td>
<td>Winter Day</td>
<td></td>
<td>Will be available before the beginning of term.</td>
<td></td>
</tr>
<tr>
<td>PSYC250</td>
<td>Current Topics in Personality and Motivation</td>
<td>PSYB10</td>
<td>An intensive examination of selected issues and research problems in the areas of personality and motivation. Limited enrolment: 25.</td>
<td>D. Stewart</td>
<td></td>
<td>The course will focus on psychoanalytic theory as it was originally developed by Freud and as it has been modified by successive psychoanalytic theorists. The content of the theory will be explored in considerable detail. In addition, the theory will be examined in relation to the ideas of significant personality theorists not within the Freudian tradition. The attempt will be made to integrate psychoanalytic theory and practice in the fields of personality and personality disorder.</td>
<td>Two 2-hour seminars per week. Though students will not be required to make formal presentations they will be expected to enter into class discussions.</td>
<td>Two examinations (35% each) and one essay (30%).</td>
</tr>
<tr>
<td>PSYC260</td>
<td>Current Topics in Animal Learning</td>
<td>PSYB11</td>
<td>A review of recent developments in animal learning.</td>
<td>C.R. Eiferman</td>
<td>Winter Day</td>
<td>The course will examine recent developments in animal learning with emphasis on evidence from operant conditioning. We will consider such topics as stimulus control, the role of classical conditioning, the role of punishment, problems in interpreting evidence from operant conditioning experiments, and the role of motivational stimuli in operant conditioning. Laboratory experience will be provided.</td>
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</table>

| PSYC265     | Current Topics in Human Information Processing   | PSYB12-series courses other than PSYB10 | An intensive examination of selected issues and research problems in human information processing. | T.B.A.      | Winter Day       | The course will examine selected issues and research problems in human information processing.                                                                                                         | Lectures, discussions and oral presentations | T.B.A.                                          |
III

PSYC 556F

Computers in Psychology

Prerequisites: PSY 552; courses in computer programming would be useful.

Course description: An examination of the means by which psychological and computer techniques are used to simulate human behavior in the areas of memory, language, comprehension, problem solving, and belief systems. Students read both introductory materials and theoretical papers and also learn simulation programming techniques by working with a laboratory computer. Limited enrolment: 20.

Instructor: T.B.A.

Session: Winter Day

Content: T.B.A.

Teaching Method: T.B.A.

Evaluation: T.B.A.

PSYC 640

Current Topics in Comparative and Physiological Psychology

Prerequisite: PSY 640; permission of instructor

Course description: An intensive examination of selected issues and research problems in comparative and physiological psychology.

Instructor: T. Petit

Session: Winter Day

Content: The course covers the development of the nervous system and correlated behavior from conception to death. The major emphasis will be on prenatal brain development, and factors governing its normal or abnormal growth. The other end of the developmental spectrum, the aging brain will also be considered, including the biological problems and theories of aging on the brain. Students will be required to work with original research articles, which will include studies on infants, mentally retarded, autistic, or hyperactive children, with aged or senile adults, or with experimental laboratory animals.

Teaching Method: There will be a 1 hour lecture per week throughout the term. There will be a final exam on the lectures and any reading material, worth 40% of the final mark. Each student will be required to write one term paper on a topic of choice in Developmental Psychology, and assessing their practicum experience, worth 40% of the total mark. Another 20% of the mark will be from an evaluation of the students performance in class and particularly in the practical setting.

PSYC 656

Philosophy and Psychology

Prerequisites: Three B-level half-courses in Psychology and one B-level half-course in Philosophy

Course description: An analysis of selected philosophical issues which concern the discipline of Psychology. Stressed will be such topics as: Behaviorism versus Phenomenology; the mind-body problem; free-will versus determinism; possible differences between philosophy and the traditional scientific disciplines. Limited enrolment: 20.

Instructor: A. Kuba

Session: Winter Evening

Content: This course is intended to develop sophistication in dealing with developmental-philosophical issues which arise in the practice of psychology. The specific issues discussed vary from year to year.

Teaching Method: Two hours of seminar weekly. Students will report on and critically evaluate recent papers in the philosophy of psychology.

Evaluation: Has commonly been based on two essay examinations (40% of final grade each) and seminar presentations (20%).

PSYC 658

History of Psychology

Prerequisites: PSY 645 (PSY 640 or PSY 640); two B-level half-courses in Psychology

Course description: Paradigm changes in the history of psychology; empiricism; Greek psychology; the modern era, Descartes, Hume, and the British Empiricists; eighteenth century developments; the emergence of descriptive and positivist methodologies; twentieth century approaches: systems theory; functionalism, structuralism, behaviorism, phenomenology. Limited enrolment: 35.

Instructor: C. Cupich

Session: Winter Day

Content: The course examines the diverse contributions of the Greek philosophers which established the foundations of Western thought. The course then turns to the conceptual, methodological, and factual developments in both continental and English psychology from the 14th to the 18th Centuries. The appearance of psychology in its modern form in the second half of the Nineteenth Century is also discussed and a critical analysis is provided of the various modern schools including systems theory, functionalism, structuralism, behaviorism and phenomenology.

Evaluation: Mid-term exam, final essay exam, 15-page term paper.

PSYC 665

Supervised Study in Psychology

Prerequisites: Three full-course equivalents in Psychology; permission of instructor

Instructor: Supervised by a faculty member

Session: Winter Day

Content: These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended to substitute for advanced courses in a field where these are available. The student must demonstrate an adequate grasp of the project proposed and should present a clear rationale to prospective supervisors. Frequent consultation with the supervisor is necessary and extensive library research and/or data collection will be required. Such a project will normally culminate in a written report but other bases of evaluation may also be determined by the supervisor. There is no final examination.
PSY801 Thesi in Psychology

Prerequisites: Satisfactory completion of 15 full-course equivalents in any discipline but including PSY801, one laboratory course in Psychology, and PSY805, PSY806, and full-course equivalents in Psychology; consent of a faculty member in Psychology to serve as research supervisor.

Corequisite: PSY808 recommended

Course description: This course is intended to offer to qualified students the opportunity to engage in a year-long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis. Throughout the year, the students' progress will be monitored by the faculty member. At appropriate times, students will meet to present their research proposals, to appraise the proposals of others, and to discuss the results of their investigation.

Coordinator: M. C. Smith Session: Winter Day

Students will meet as a group with the coordinator as well as individually with the supervisor. The final grade will depend on all aspects of the student's performance including the quality of the written thesis which will be read by both supervisor and coordinator.

There is no final examination.

Courses not offered in 1974-75

PSY203 The Measurement of Psychological Attributes

Prerequisites: PSY201 or MAT231; one additional half course in Psychology at the B-level.

PSY251 Perceiving and Knowing

Prerequisites: A B-level course in psychology (PSY201 or PSY202 and permission of instructor); PSY250, PSY252, PSY254, or PSY256 are recommended.

PSY256 Men and Machines

Prerequisites: PSY201 or PSY202; quantitative skills such as required in PSY201, or PSY205 are an advantage.

PSY254 Phenomenological Psychology

Prerequisites: Three B-level half-courses in Psychology

PSY250 Structures in Psychology

Prerequisites: PSY250 or MAT231 or PSY255; PSY250 or PSY255; permission of instructor.

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Russian

Discipline Representative: C. V. Pomannoff

The Russian discipline offers a selection of courses in Russian language and literature. Both language and literature courses may be combined in a number of ways, where prerequisite requirements have been satisfied. (See also under Modern Languages and Literatures and Russian or Related Studies in the Programmes Section of the Calendar). All Russian literature courses, with the exception of RUSS50, 51, 52, 53, 54, 55, and 56, are taught in translation and are open to non-specialists as well.

MAJOR PROGRAMME IN RUSSIAN AND RELATED STUDIES

Supervisor of Studies: C. V. Pomannoff

This area studies programme is designed for students interested in Russia and East Europe. In a world in which Russia and the socialist countries of Eastern Europe play such an important role, a programme standing between East and West in academic, governmental, industrial, and other fields.

The programme is offered at two different levels of study: first, those whose main interest is a detailed knowledge of the area with a view towards concentrating in Russian language and literature or Russian History, Political Science or Economics; second, those interested in a general knowledge of the area in some other field of study.

Requirements:

Students intending to major in the area must complete a total of ten courses: two consecutive courses in Russian language, four core courses, and four optional courses. Programs must be approved by a Board of Study to consist of at least one faculty representative from each of the disciplines teaching within the programme:

- Russian: C. V. Pomannoff
- History: E. M. Dewar
- Political Science: T. J. Cotton, S. G. Solomon
- Economics: J. Cohen
- Philosophy: W. C. Graham
- Humanities: K. Thall

Courses:

Language: Two consecutive courses in Russian language are offered:

(MUSA101, MUSA102)
**RUSS40**
Introduction to Russian Culture and Literature

Course Description: The course focuses on the origins and the rise of the Russian intelligentsia beginning in the eighteenth century and follows its progress into the twentieth.

Instructor: C.C. Pomorski
Session: Winter Day

Content: Some of the important cultural issues discussed are the relationship between a creative intelligentsia and the absolutist state, the cultural identity crisis in the nineteenth century, the impact of the Russian Symbolists on twentieth-century Russia and the cultural repressions in Russia of the political revolution of 1917. Though music, painting and films are brought into the discussion, the main emphasis falls on poetry and literature in the context of Russian intellectual development.

Teaching Method: Lecture and discussion

Evaluation: Two minor papers, one final exam, class participation.

**RUSS410**
Introductory Russian

**RUSS411**
Elementary Conversation

See Summer Language Institute

**RUSS412**
Introductory Russian

Course Description: Fundamentals of Russian grammar, with emphasis on comprehension and reading, writing and conversation.

Instructor: Natalia Rozhkov
Session: Winter Day

Objective: The course is designed to introduce the student to the Russian language, readings, writing, elementary grammar, basic conversation, and pronunciation. At the end of the year students should have an active vocabulary and knowledge of grammar to enable them to take part in simple conversation and a passive vocabulary to enable them to read and retell (orally and in writing) easy texts.

Content: Starting with the Cyrillic alphabet and familiarization of grammar: declensions, conjugations, aspectual system and word order. Equal emphasis is given to written and oral drills.学生 are exposed to structural oral work in laboratory and class; free conversation based on material read is encouraged.

Teaching Method: Four class hours, in addition to which the student is expected to spend one hour in the Language Laboratory.


Evaluation: Tests, class performance and homework considered for grading; no final examination required.

**RUSS420**
Intermediate Russian

**RUSS421**
Intermediate Conversation

See Summer Language Institute

**RUSS422**
Intermediate Russian

Instructor: Suzanne Whalen
Session: Winter Day

Content: Study of Russian morphology, translation, composition, selected readings in the original, and conversation.

Teaching Method: Four hours a week divided into two intensive two-hour sessions plus additional language laboratory practice.

Bibliography: Denis P.A. & Gurevich D.V. Making Progress in Russian, Progress Khavronina E. & Khavronina E. Russian in Fahilities, Progress Khavronina S. Russian in Practice. Selection of tests for reading chosen according to the particular interest of students.

Evaluation: A final examination accounts for about one third of the final mark. The term mark is based on tests, written and oral assignments, class and laboratory participation.
Sociology

Assistant Chairperson: R. Howell

Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form and which make up society. Sociology attempts to explain how society is ordered and how it functions, what accounts for social cohesion, social stratification, social mobility and social change, the consequences of co-operation, competition and conflict.

The following courses represent some of the major subdivisions of Sociology and several approaches to the scientific study of social phenomena.

MAJOR PROGRAM IN SOCIOLOGY

Supervisor of Studies: Professor John Alan Lee

Students should complete at least nine full courses (or equivalent) in Sociology, including the following:

1. One course in research methods (e.g., SOC601Y, Methods in Social Research)
2. One course in Sociological Theory (e.g., SOC605Y, History of Social Thought)
3. At least two C-level courses

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

Pre-Social Work Studies

Sociology students interested in a career in Social Work are advised to take a selection of courses in Sociology and Psychology as their core, with additional courses to be taken in related areas such as economics, social work, social administration and political science. The special adviser for these students will assist them in selecting courses reflecting current requirements for entry into professional schools of Social Work. The special adviser is Prof. R.L. James.

Urban Studies

Students interested in urban studies with sociological emphasis should consult with the special adviser in urban studies. A variety of course combinations are available in three- or four-year programmes. Emphasis may be on urbanization and urbanism, urban problems, the urban community, community research, environmental aspects, etc. The student will be expected to include relevant courses bearing on urban phenomena from a number of other disciplines, especially Geography, Economics, Political Science, and Anthropology. The special adviser in urban studies is Prof. John Bannigan.
SOCI307Y Methods in Social Research
Prerequisites: One course in Sociology

Course Description: 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 design and causal analysis, and methodology and its implications. Once the fundamentals have been covered, an effort will be made to teach students how to design, conduct, and evaluate research reports. Several studies will be assigned in detail, and then students will be expected to do their own evaluations. The final goal will be to provide you with some practical experience in doing research. Using data sets provided by the instructor, students will be taught how to interpret tables and to employ data to test hypotheses.

Instructor: S. Unger
Session: Winter Day
Teaching Method: Lectures, tutorials, laboratory sessions, and practical applications.
Evaluation: Methods Unit: a term exam (15%); and a Christmas exam (25%). Research Evaluation: evaluations of two articles, each worth 15; data analysis: two short research reports, the first worth 15; the second 20.

SOCI327Y Structure of Interpersonal Relations
Prerequisites: One course in Sociology

Course Description: The course will focus on the patterns of interaction and social influence in interpersonal behavior. It begins with a consideration of labeling theory, with special attention given to stylization and the labelling of mental illness. Instead of treating mental illness as residing primarily in the individual, we will examine the role of other people in shaping or 'artifacting' an actor's behavior and the contingencies involved in discrediting an actor. The course will then analyze attribution theory, which considers how we explain both our own behavior and the behavior of others. This analysis will focus on social identity and symbolic interactionist theory. These analytical models will then be utilized to approach the study of the nature of social relations in small groups, helping behavior and aggression.

Instructor: S. Unger
Session: Winter Day
Teaching Method: Lectures and Labs
Evaluation: Mid-term exam - 20%, Final exam - 20%, 3 short (about 5 typed pages) reports based largely on the use and application of assigned readings - 20% each.

Bibliography:
- T. Parson, Social fitness: theory and research
- R. Green, I Never Promised You a Rose Garden
- S. Goffman, Interaction Ritual
- J. Mead, Mind, Culture, and Activity
- R. Tannahia, The Attitudes and Changing Behavior
- M. Renn, Blaming the Victim

SOCI302T History of Social Thought
Prerequisites: One course in Sociology

Course Description: This course will study the development of sociological thought and the works of sociologists whose ideas have not only historical interest but also contemporary relevance. It begins with a basic discussion of the nature of sociological theory and a short look at ideas on society in Greek, Roman, and Medieval times. It will then analyze the rise of modern social theory in the nineteenth and early twentieth centuries in the work of theorists such as Marx, Durkheim, Spencer, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered, such as functionalism and exchange theory; phenomenology and ethnomet hodology; Marxist humanism, especially as represented in the Frankfurt School; and structuralism, as it is developing in France. To help organize this range of material, much of the analysis will focus upon a few basic questions, such as the existential premises of each theory, and the position of each theory on the nature of social change and social stratification. In this way, students will be able to compare different theories and to trace over the last century and a half the course of development of certain basic questions in social theory.

Instructor: N. Hammond
Session: Winter Day
Teaching Method: Lectures and Tutorials
Evaluation: Two short papers, a Christmas exam, and a major research paper due at the end of the second term.
### SOCY 474V Political Sociology

**Prerequisites:** One course in Sociology

**Course Description:** Specific topics include a review of social and political theories, major political ideologies, political development and emergence of modern nation-states, political action (political protests, revolutions and wars of independence). The course will examine a number of contemporary issues such as the question of national unity, labour and politics, wage and price control, immigration law etc.

**Instructor:** A.Q. Lodhi

**Teaching Method:** Lectures, simulation games, films and discussions.

**Evaluation:** Two in-class tests, a seminar paper, and a major essay.

### SOCY 475 Small Groups

**Prerequisites:** Two courses in Sociology, one of which must be a 3-level course.

**Course Description:** Analyses of small group behavior with special reference to the dynamics of group formation, conflict patterns, maintenance patterns, and patterns of change. Limited enrollment: 20

**Instructor:** W.H. Isajiw

**Teaching Method:** The first term will be conducted as an academic self-analytical group; the second term as a seminar. The method in the first term will be participation in group task performance supplemented by regular reading and written reports; and in the second term, class reports, discussions and research reports.

**Evaluation:** Subject to the approval of the College, there will not be a formal examination.

### SOCY 480Y Social Class and Social Stratification

**Prerequisites:** One course in Sociology

**Course Description:** Description and analysis of the nature of social stratification, with emphasis on the basis of stratification; different theoretical perspectives concerning stratification; the structure and function of stratification systems; social classes and associated behavior; social mobility; and class conflict.

**Instructor:** J. Glickman

**Teaching Method:** Lectures and Tutorials.

**Evaluation:** Periodical minor submissions, a major research paper and a final examination.

### SOCY 480Z Sociology of Science

**Course Description:** This course will study the relationship between science and society. In the first term, the effects of different social structures on the development of science and scientific ideas will be analyzed in a number of historical contexts. During the second term, the effects of science on contemporary societies will be studied, with particular attention given to the Canadian situation. For instance, we will consider from a sociological perspective such topics as nuclear energy and space engineering. Hopefully, this course will be of interest to students of both the natural and social sciences.

**Instructor:** M. Hammond

**Teaching Method:** Three hours per week of lecture and discussion.

**Evaluation:** Two short papers, a Christmas exam, and a major research paper due at the end of the second term.
SOC534
Sociology of the Family
Prerequisite: One course in Sociology

Course Description: The sociological study of the family in contemporary Western society. The first half of the course will focus on the family as a small group, emphasizing the family life cycle, nuclear family relationships, interaction patterns and interpersonal problems in family relationships. The second half of the course will examine the family in its community, institutional and historical setting, bringing various social factors which affect family life and its changing nature.

Instructors: H.L. James (First Term) & D. Grafstein (Second Term)

Teaching Method: Lectures and tutorials

Evaluation: The first half of the course will be evaluated on the basis of an in-term test, an end-of-term examination, tutorial work and a short research paper. The second half of the course will be similarly evaluated, but with a final examination over the course.

SOC536
Canadian Society

Prerequisite: One Course in Sociology

Course Description: An examination of the context, structure, and development of Canadian society. Special consideration will be given to current issues such as control of energy resources, the future of Quebec and the question of a distinctive national identity.

Instructors: J. Bannigan (Winter Day), J-L. Delaney & J. Bannigan (Summer Evening)

Teaching Method: Lectures and Tutorials

Evaluation: Examinations and essay assignments.

SOC541
Comparative Social Structure

Prerequisite: One course in Sociology

Course Description: A study of the institutional structure in different societies in order to develop a better understanding of the effects of structural variations on human behavior.

Instructor: J. Glickman

Session: Winter Day

Teaching Method: Lectures and Tutorials

Evaluation: Periodical minor submissions, a major research paper and a final examination.

SOC546
Social Change

Prerequisite: One course in Sociology

Course Description: A sociological analysis of forms of change, such as industrialization, modernization, urbanization and their consequences for the structure and function of contemporary society.

Instructor: J.A. Lee (both sections)

Sessions: Summer Day, Winter Day

Teaching Method: Lectures and Tutorials

Evaluation: A combination of class tests, field work assignments, an essay, and a final examination.

SOC624
Sociology of Deviant Behaviour

Prerequisite: One course in Sociology

Course Description: Topics covered will include the analysis of the social processes by which behaviour is defined and treated as criminal, immoral, disgusting, sick or merely eccentric; the establishment and administration of sanctions, treatment and other controls; deviant subcultures; specific categories of deviance, such as crimes against persons, "viciousness crimes"; mental illness, sexual deviation and alcoholism.

Instructor: R.L. Bents

Session: Winter Day

Teaching Method: Lectures and possibly seminars or tutorials will be employed.

Evaluation: Will be based on some combination of written reports and examinations.

SOC625
Ethnic and Race Relations

Prerequisite: One course in Sociology

Course Description: The course is concerned with the situations in which people in a society seek and realize the patterns of relations and behavior that develop through frequent interaction and the changes in perceptions, values, and attitudes that take place following such regular and protracted interaction. Specific topics to be discussed may include: the problem of stereotyping and prejudice; social mobility and "civil rights" movements as processes of change in ethnic status; maintenance of ethnic identity and conflict and continuity between ethnic generations, and societal integration especially as it bears upon the question of Canadian biculturalism and multiculturalism.

Instructors: W.W. Isajiw (Winter Day) & J. Glickman (Winter Evening)

Session: Winter Day

Teaching Method: Lectures and class discussion

Evaluation: Essays and examinations(s).
SOC 307Y Special Problems of Sociological Theory
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Course Description: Basic questions underlying sociological thinking will be considered as they arise in the work of contemporary theorists and sociological classics. Students will be expected to develop an informed, critical perspective on current debates within the discipline. Though not formally required, a previous course in social and/or political theory (e.g. Soc 303H) would be a distinct asset.
Instructor: R. O'Toole
Session: Winter Day
Teaching Method: Seminar. Students will be expected to read widely and to participate in class discussion.
Evaluation: Subject to approval by the college, students will be graded on the basis of term papers, oral presentations, and a major research paper.

SOC 308Y Sociology of Occupations
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Course Description: Within the context of the relevant sociological theories of Durkheim, Weber and Marx, the relationship of people to particular occupations is studied through the examination of career choice and patterns, measures of satisfaction and alienation, the Canadian labour force. Limited enrolment: 15.
Instructor: L. Hardon
Session: Winter Day
Teaching Method: Seminar
Evaluation: Two short research papers and a final examination.

SOC 309Y Sociology of Culture
Prerequisites: One course in Sociology
Course Description: This course will study the effects of social structure and organization on the development of culture. It will seek to show how all aspects of culture, from the most abstract to the most commercialized mass culture product, can be analyzed from a sociological perspective. The lectures will focus primarily on social life, literature and music, both in Canada and abroad, but students will be able to choose any aspect of culture for analysis in their essays. The Summer Day Section will have a somewhat different emphasis.
Instructor: J.A. Lee (Winter Day)  R. O'Toole (Summer Day)
Session: Winter Day  Summer Day
Teaching Method: Seminar
Evaluation: One short paper for presentation in class and one major research paper due at the end of the term. (Subject to College approval.)

SOC 303F Collective Behaviour
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Course Description: The study of "uninstitutionalized" group behaviour - crowds, panics, crowds, riots and the genesis of social movements. Limited enrolment: 15.
Instructor: R. O'Toole
Session: Winter Evening
Teaching Method: Seminar
Evaluation: Subject to the approval of the college, students will be graded on the basis of two papers and their class participation.

SOC 328Y Social Movements
Prerequisites: Two courses in Sociology, including a B-level course.
Course Description: The instructor will develop an approach to social movements which includes the following: the origins of social movements, mobilization processes, the career of the movement and its stabilization. The course readings will be closely related to the lectures, and major concerns will be to link the theoretical discussion with the concrete readings on movements.
Instructor: S. Ungar
Session: Winter Evening
Teaching Method: Lectures and class discussion.
Evaluation: Analytic Paper - 20%
Book Review - 25%
Class Participation - 10%
Final Examination - 40%
SOCC11F Sex, Self and Society

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Course Description: A sociological approach to the bases, establishment and maintenance of social differentiation based on sex, including a consideration of socialization and sex-typing, the division of labour, patterns of sexual behaviour, changing roles and protest movements.

Instructor: R.A. James  Session: Winter Day

Teaching Method: Lectures, discussions and student-led seminars.

Evaluation: In-term tests, a short essay and oral presentation.

SOCC12F Mathematical Methods in Sociology and the Behavioral Sciences

Prerequisites: Permission of Instructor.

Course Description: This course has two aims: (1) to explain the use of mathematical tools adapted to research in the behavioural sciences (Sociology, Psychology, Economics, Political Science and Anthropology); and (2) to illustrate the use of each tool by examples from literature in those disciplines. The survey of literature will be critical, emphasizing the limitations as well as the power and possibilities of mathematical methods in the behavioral sciences. The course will cover three main areas: Probability, Statistics and Game Theory.

Instructor: A. Rapoport  Session: Winter Day

Teaching Method: Lectures and Discussion.

Evaluation: Term Papers and/or Examination.

SOCC14S Mass Communication and Canadian Society

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Course Description: Examines the nature of mass communications processes, patterns of media access and control, and current issues in Canadian communications. Topics to be considered include the mass media and the political process, media and national identity, and mass communication and national identity. Limited enrolment: 15.

Instructor: J. Hannigan  Session: Winter Day

Teaching Method: Seminar

Evaluation: A seminar presentation, a research paper and some form of examination.

SOCC11S Sociology of the Arts

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Course Description: This course will study the relationship between social structure and high culture. It will seek to show how a study of the social structure will deepen sociological understanding and how all aspects of high culture can be analyzed from a sociological perspective. The lectures and discussions will focus on literature, film, and painting, but students will be able to choose any aspect of high culture for analysis in their research paper. Limited enrolment: 15.

Instructor: R. Ramsay  Session: Winter Day

Teaching Method: Seminar.

Evaluation: One presentation in class, an exam, and a major research paper.

SOCC24F Sociology of Religion

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Course Description: A sociological analysis of religion as a social institution. Consideration of the problem of a definition of the phenomenon, analysis of major theoretical and empirical contributions to the field, and investigation of the forms of religion in historical and contemporary contexts. Limited enrolment: 15.

Instructor: R. O'Toole  Session: Summer Day

Teaching Method: Seminar

Evaluation: Subject to the approval of the college, students will be graded on the basis of two papers and their class participation.

SOCC256 Sociological Analysis: Qualitative Methods

Prerequisites: SOCC61: one B-level course in Sociology

Course Description: Systematic analysis of basically non-statistical or qualitative materials. The epistemology of research, the systematic analysis and techniques of sociohistorical analysis, content analysis and methodologies for the study of non-academic materials from non-scholarly sources. Limited enrolment 15.

Instructor: A.D. Laska  Session: Winter Day

Teaching Method: Lectures, field work, and group discussions.

Evaluation: A combination of in-class tests, field-work reports, and a major essay.
SOCC245 Changing Family Life in Canada
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Course Description: Examination of the major changes in the structure of the family in Canada, and its consequences for family life. Limited enrolment: 20.
Instructor: D. Grafein Session: Summer Day
Teaching Method: Lectures and Seminars.
Evaluation: Subject to college approval, a combination of research assignments and a major paper.

SOCC285 Comparative Race Relations
Prerequisites: Two courses in Sociology, one of which must be a B-level course.
Course Description: The purpose of this course is to obtain a critical understanding of "race" as a form of social inequality governing intergroup relations in different societies. Special emphasis will be placed on Canada, the United States, South Africa and Latin America.
Instructor: J. Glickman Session: Winter Day
Teaching Method: Seminar
Evaluation: Subject to approval by the College, evaluation will be based on: (a) an oral presentation, (b) a major research paper comprising a comparison of race relations in two or more societies or the development of race relations in one society over a given period of time, and (c) general class participation.

SOCC306 Sociology of Urban Growth
Prerequisites: Two previous courses in Sociology
Course Description: An in-depth examination of the conditions, patterns and consequences of urban growth and development. Major topics will include the emergence of new urban institutions (legal, political, economic) and the formation and operation of urban social networks. Limited enrolment: 20.
Instructor: J. Hanniyan Session: Winter Evening
Teaching Method: Seminar Form
Evaluation: A major research paper, a seminar report, an annotated bibliography, and an examination.

SOCC377 Social Class in Canadian Society
Prerequisites: Two courses in Sociology
Course Description: Specialized study of social class phenomena in contemporary Canadian Society, bringing to bear both current theory and research.
Instructor: D. Grafein Session: Winter Day
Teaching Method: Seminar
Evaluation: Subject to approval by the College, the evaluation will be based on a short research assignment, a seminar presentation, and a final research paper.

SOCC383 Sociology of Aging
Prerequisites: SOCC12
Course Description: An examination of the latter stages of the family life cycle with special reference to the period following middle age. Special topics to include: the significance of retirement, problems of adjustment to aging, the place of the aged person in the modern family, and bereavement. Limited enrolment: 20.
Instructor: R.L. James Session: Winter Evening
Teaching Method: Lectures, discussions and seminar programmes
Evaluation: In-term tests, a short research paper and oral presentation

SOCC389 Variant Family Forms
Prerequisites: SOCC12
Course Description: A review and sociological analysis of non-traditional family forms and innovative life styles representing responses from conventional marriages and family patterns in the 1970's. Included will be "spinsteress", "living together", polygamy, marriage and co-operative and "winging it". Special reference to problems and community response. Limited enrolment: 20.
Instructor: R.L. James Session: Winter Day
Teaching Method: Lectures and class discussions
Evaluation: In-term tests, short research paper, and short written assignments.

SOCC390 Independent Studies
Prerequisites: Any fifteen courses; permission of instructor.
Course Description: By arrangement with instructor.
Instructor: Staff Session: By arrangement with instructor
**Sociology Courses NOT Offered 1978-79**

- **SOC101Y** Sociology
- **SOC102Y** Sociology of Ideas
- **SOC103P/S** Research on Small Groups
  Prerequisites: SOC101 or SOC102 (SOC101: permission of instructor)
- **SOC104P/S** Sociology of Education
  Prerequisites: Two courses in Sociology, one of which must be a B-level course.
- **SOC106P/S** Problems in Demography
  Prerequisite: SOC102 or permission of instructor.
- **SOC107P/S** Sociology of Conflict
  Prerequisites: Two courses in Sociology, one of which must be a B-level course.
- **SOC108P/S** Social Change in Latin America
  Prerequisites: Two courses in Sociology, one of which must be an S-level course.
- **SOC110P/S** Sociology of Criminal behaviour
  Prerequisites: SOC101; one other course in Sociology
  or Juvenile Delinquency
  Prerequisites: SOC101; one other course in Sociology

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**Spanish**

**Discipline Representative:** P. R. Leon

Students enrolling in Spanish are offered a wide range of courses in the Spanish language and in Peninsular and Spanish-American literature.

Students who do not intend to major in Spanish are free to choose whichever courses they wish, provided that they have satisfied the relevant prerequisites. Students intending to major will find the requirements for programmes in Spanish and in Modern Languages and Literatures in the Major Programmes section of the College Calendar. Courses in Fine Art, History, Humanities, Linguistics, Philosophy, and in other languages and literatures, may also prove valuable to the student as adjuncts to his plan of study or as an enrichment of his total programme.

All students enrolled in Spanish, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, are invited to confer with their instructors at the earliest possible date in order to work out an appropriate and coherent programme.

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**MAJOR PROGRAMME IN SPANISH**

**Supervisor of Studies:** P. R. Leon

Students should complete at least nine full courses (or equivalent) in Spanish. The programme should be made up as follows:

(1) The following language courses, which students in full-time attendance are advised to take in the sequence shown:

- **First year of full-time study (or equivalent):** SPA101Y (students without Grade 13 Spanish) *or* SPA102Y (students with Grade 13 Spanish) SPA103Y
  - Second year of full-time study (or equivalent): SPA201Y (unless completed in first year)
  - Third year of full-time study (or equivalent): SPA312Y; SPA313Y

(2) Six full courses (or equivalent) from among the following:

- SPA104Y Pre-Literary Examination of Text
- SPA206Y Cultural Aspects of Spain
- SPA307Y Topics in Latin American Culture and Literature
- Survey of Literature courses: SPA111Y, SPA112Y
- Modern Literature courses: SPA121Y, SPA122Y, SPA126Y, SPA127Y, SPA226Y, SPA227Y
- SPA306Y, SPA308Y, SPA312Y
- SPA315Y Golden Age Literature courses: SPA121Y, SPA122Y, SPA126Y, SPA127Y
- SPA311Y does not count as one of the nine full courses required for a major programme

- SPA105Y Stylistics and Translation
- SPA106Y Medieval Literature: Prose
- SPA107Y Medieval Literature: Poetry
- SPA112Y-SU Supervised Reading

Information on the suggested sequence, scheduling, and distribution requirements of these courses may be obtained from the Supervisor of Studies or from other members of the Faculty of Spanish.
SPAA91A  Introductory Spanish
Course description: A course in basic grammar and syntax, with instruction in spoken and written Spanish.
Instructor: K. Godde-Hijbowe  Session: Winter Evening  (Fall Term)
Content: This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading and conversation. Regular class attendance and participation is essential.
Teaching Method: Six lecture hours of exercises and drills based on the grammar textbook, plus a 1 hour conversation class for supplementary oral drills.
Evaluation: 5 tests which will account for 50% of the final mark and 5 written or oral assignments equally worth 25% of the final mark.
Note: This is an intensive course which will meet twice per week. This is a full credit course.

SPAA91I  Introductory Spanish
Course description: A course in basic grammar and syntax, with instruction in spoken and written Spanish.
Instructor: I. Chilyou-Dahón  Session: Winter Day
Content: This course covers the basic aspects of Spanish grammar with some reference to Hispanic culture and society. Stress is placed on written exercises, basic composition, reading and conversation. Regular class attendance and participation is essential.
Teaching Method: Three lecture hours of exercises and drills based on the grammar textbook, plus conversation for supplementary oral drills.
Evaluation: Regular written assignments and quizzes. In-course written examination.

SPAA91B Intermediate Spanish (See Summer Language Institute)

SPAA91B Intermediate Spanish
Exclusion: SPAA90
Prerequisite: Grade 13 Spanish or SPAA91
Course description: Review of grammar and syntax; composition, translation and oral practice.
Instructor: F. León  Session: Winter Evening  (Spring Term)
Note: This is an intensive course that will meet twice a week for 3 hours per evening. In addition there will be tutorial and practice hours to be arranged with students. This course will count for a full credit.
Content: 1. Review of grammar and syntax. The text used will be Da Silva, A Concise Approach to Spanish, 3rd edition.
3. Language evolution, through; Conversation in class, tutorial practice, TV playback; dramatisation, reading aloud and oral presentation.
3. Vocabulary acquisition, through; Drills on idiomatic expressions, synonyms and regionalisms; translation of both prose and poetry, and composition.
4. Instruction of stylistic devices, linguistic patterns, dialogue, etc., in a literary work.
5. Written materials, and audio visual aids (TV programs, dramatic productions in Spanish, music, etc.), will be provided, as well as topics of conversation and texts for translation. Each student will be expected to prepare a presentation on a suggested topic, in collaboration with a classmate, the topic of this presentation will have to be agreed by the class as a whole before it is prepared. The play by La Comedia de los Gallegos, a Norfolk comedy, will be the literary work used in addition to the above materials.
Evaluation: Class participation, written tests, presentation of topic, a long translation and two compositions in Spanish will be worth 60%. Two term exams will be worth 40%.
SPAN404
Intermediate Spanish

Exclusion:
SPAN33
Pre-requisite:
Grade 13 Spanish or SPAN31
Course Description: Review of grammar and syntax; composition, translation and oral practice.
Instructor: J.T. Chico-y-Dahn
Session: Winter Day
Content:
1. Review of grammar and syntax. The text used will be Do Silve, A Concise Approach to Spanish, 3rd edition.
2. Composition. There will be two kinds: a) to be written as homework; b) in class (with the help of a dictionary). The topic for both types of compositions will be chosen by the student from several proposed by the instructor.
3. Translation. There will be: a) translations to be done as homework; b) in class (with the help of a dictionary). Both kinds of translations will be from English into Spanish. The types of texts for translation will include: a) conversations on matters of daily life; b) historical texts; c) scientific ones; d) literary prose.
4. Oral practice. The students will be asked to act in groups of two or three various dialogues portraying different situations.
Evaluation: The final mark will be comprised of:
1. 4 tests (in class) 45%
2. Compositions 20%
3. Translations 20%
4. Oral practice 15%

SPAN38
Pre-literary Examination of Texts

Exclusion:
SPAN31
Pre-requisite:
The basic elements of style with rapid reading and comprehension of texts of various periods.
Instructor: R. Skyme
Session: Winter Day
Content: This is not a literature course, but one which provides training in the methodical analysis of literary texts from Spain and Latin America. Its purpose is to develop the critical skills on which understanding and enjoyment of literature depend.
Teaching Method: Two lecture/tutorial hours per week. A further tutorial hour to be arranged. Regular attendance and class participation are essential.
Evaluation: Regular oral and/or written commentaries on assigned texts. Written term-tests.

SPAN25
History of the Spanish Language

Exclusion: SPAN24
Pre-requisite: SPAN24
Course Description: The languages of Spain, from pre-Roman times to the present.
Instructor: R. Skyme
Session: Winter Day
Content: The objective of the course is to develop a basic understanding of how the Spanish language evolved from Latin, within the context of other Romanic languages. The course will examine: pre-Roman, Roman, Visigothic, and Moorish civilizations in the Peninsula; and the development of Roman Spanish. The course will cover periods: pre-Roman (inscriptions, glosses, etc.). The main segment of the course deals with the evolution of the sounds and forms of Latin into Peninsular Romance, focusing on the growth of the Castilian dialect. Illustrative texts will be analyzed and class participation and discussion is encouraged.
Evaluation: Based on weekly reading assignments, up to five written tests during term, and a written research assignment. Tests are worth 80% assignment 20% of final mark.
This course is required for Spanish majors but open to all qualified students.
SPAR11V  Survey of Spanish Literature II

Prerequisites: SPAR01

Course description: From the eighteenth century to the present. Reading, analysis and discussion of major texts of Peninsular Spanish literature of the period. A continuation of SPAR11V.

Instructor: R. Berta/J.J. Chico-Taboada  Session: Winter Day

Content: Lectures on background material. Areas of study will include representative texts from eighteenth century Neoclassicism, nineteenth century Romanticism, Port-Romanticism, Realism and Naturalism. The late nineteenth and the twentieth centuries will be studied according to the concept of literary generations.

Teaching Method: Three lecture/discussion hours weekly. Class participation is essential.

Evaluation: Regular oral and written assignments; one year paper.

SPAR21V  Golden Age Prose

Prerequisites: SPAR03

Course description: The development of Spanish prose writing in the Golden Age.

Instructor: J.J. Chico-Taboada  Session: Winter Day

Content: 1. El Lazarillo de Tormes, as an example of the picaresque novel.
2. Covarrubias' Novelas ejemplares, as an example of the exemplary novel.
3. Alfonso de Valdés: El Diablo de Mendoza y Carpio, as an example of the didactic prose of the period.
4. El Amor de Dios, by Alonso de Ercilla, as an example of the didactic prose of the period.
5. Extracts from Teresa de Avila's spiritual works. Some of these extracts will illustrate several other forms of the novel of the period.

Evaluation: The final written examination (three hours) in which, besides answering some general questions on some of the works and authors studied, the student should analyze specific given passages. (60% of the final mark)
One essay of 2,000 words on any of the topics suggested by the instructor. (30% of final mark)
Participation in class periods will constitute the remaining 10% of final mark.

SPAR22V  Spanish American Literature: The Short Story

Prerequisites: SPAR01

Course description: Short story: history of the Spanish pueblos; survey of important short stories by Spanish and European authors in order to attempt a definition of the short story; reading, analysis and discussion of the various forms of the Spanish American short story.

Instructor: P. Leon  Session: Winter Day

Objectives & Content: a) To trace the development of the short story as a literary genre, from the apologetes and fabulists of Indian and Oriental provenance, through the medieval encantadors and escorriers, to the stories of Cervantes, O'Hare, A. Goytisolo, Breyner and Canete.
b) To attempt a definition of the Latin American short story through the study of the various forms of short prose fiction known in Latin American country, relato, leyenda, tradición, etc.
c) To study the work of some of the outstanding short story writers of Latin America, Asturias, Valles, Borens, Corro, M. de Ateia, García Méndez, etc. (Part of major program but open to all qualified students. Texts in Spanish and English. Critical material mainly in English).

Teaching Method: The course will be conducted in seminar form.

Homework will be encouraged to discuss, comment, disagree and challenge the points made by instructor. There will be a 2 hr. session per week and tutorials to be arranged.

Bibliography: Primary sources will be available either in paperback or a limited number. Critical material will be placed on reserve in the library. Lists of both primary and secondary sources will be handed out at the beginning of the term.

Evaluation: There will be one paper worth 40% and one in-term exam worth 30%. Attendance and class participation will be worth 20%.

Additional Comments: Students will be required to discuss with instructor the topics, approach, extent and bibliography of the term paper before beginning work on it. I encourage frequent consultation with the writing of this paper, and indeed concerning any other questions relating to the course.

SPAR34V  Poema de la Vanguardia

Prerequisites: SPAR03

Course description: Poetry and poetics in Spanish-America between the Two World Wars.

Instructor: R. Smythe  Session: Winter Day

Content: A review of the Modernist movement, and of the similar poetic style which followed it, leads into a detailed examination of texts in order to develop an appreciation of the broad range of poetic expression which characterized the period. Emphasis is placed on such figures as Neruda and Vallejo.

Teaching Method: Two hours per week (lecture and tutorial). Class participation and class discussions are encouraged.


Evaluation: Oral and/or written commentaries on assigned texts; five papers and two term-tests. Term tests are worth 50%, term work and paper 50% of final grade.
SPAC50F Medieval Poetry
Prerequisite: SPAB20 or SPAB30
Course description: Reading, analysis and discussion of major texts in poetry from the twelfth to the fifteenth centuries in Spain.
Instructor: R. Barta
Session: Winter Day
Content: This course includes an investigation of the problems of the development of epic poetry from the CID to the COMÉRICE; the larigas and the development of lyric love poetry both courtly and traditional; the master de clerecia; the Libro de buen amor; satiric and "protest" poetry; 15th century allegorical and devotional poetry.
Method: Three lecture/discussion hours weekly.

SPAC60F Topics in Latin American Culture and Literature
Prerequisite: SPAB10
Course description: This course will attempt to provide students with a basic understanding of Latin American culture and literature.
Instructor: P. Leda
Session: Winter Evening

SPAC90Y Advanced Spanish
Prerequisite: SPAB20
Course description: Intensive study of grammar and syntax; translation, composition, and oral practice.
Instructor: R. Skayre
Session: Winter Day
Content: Detailed examination of the subtleties of Spanish grammar through intensive practice in translation, transformation, composition, and conversation.
Teaching Method: Three hours per week in tutorial form. Regular attendance and class participation are essential.
Evaluation: Regular assignments in grammar, translation, and composition. Four in-term tests. 60% of final mark based on term work and class participation; 40% on tests.
Required for Spanish majors, but open to all qualified students.

SPAC902F-COFP
CTIS-CI20
Supervised Reading
Prerequisite: SPAB20, one course in Spanish literature (SPAB30 or SPAB37)
Nature of the Programme: Students who wish to enter the Spanish Supervisor Reading Program should enroll in any of the above courses (Y.F or Y as appropriate). They should then contact a particular instructor in the discipline and discuss with him his proposed topic. Students should have sufficient background in the area they wish to study more closely; and they should provide a rationale for choosing a specific topic of study. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two hour period. The exact arrangements will depend on the nature of the text and the level of ability of the student.
Instructor: R. Barta, J. Ochowicz, M. Skayre
Session: Winter Day
Content: Specific topics in Peninsular Spanish and Latin American literature, linguistics and culture.
Teaching Method: TBA
Evaluation: TBA
Courses not offered in 1978-79:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tr>
<td>SPAB32F</td>
<td>Intermediate Spanish</td>
<td>Grade 12 Spanish or SPAB01</td>
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<tr>
<td>SPAB32G</td>
<td>Spanish Conversation I</td>
<td>Exclusion: SPAB15, Prerequisite: SPAB01</td>
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<tr>
<td>SPAB34F</td>
<td>Spanish Conversation II</td>
<td>Exclusion: SPAB16, Prerequisite: SPAB05</td>
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<td>SPAB37G</td>
<td>Intermediate Syntax and Composition</td>
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<td>SPAB39F</td>
<td>Cultural Aspects of Spain</td>
<td>Exclusion: (SPAB08), Prerequisite: Grade 12 Spanish or SPAB01</td>
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<td>SPAB31F</td>
<td>Romanic Classics</td>
<td>Prerequisite: SPAB01</td>
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<tr>
<td>SPAB31Y</td>
<td>Conversation I</td>
<td>Exclusion: SPAB05</td>
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<td>Exclusion: SPAB06</td>
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SPAB17F: The Nineteenth Century Spanish Novel
Prerequisite: SPAB01

SPAB18V: Survey of Spanish literature I
Exclusion: SPA111, Prerequisite: SPAB01

SPAB20V: Advanced Language Practice
Prerequisite: SPA107

SPAB21F/2    | Stylistics and Translation                        | Exclusion: SPA203, Corequisite: SPAB02                                   |
|             |                                                  | Prerequisite: SPA102                                                     |

SPAB23Y: Spanish Drama
Prerequisite: SPAB02
Corequisite: SPAB03

SPAB24S: Golden Age Poetry
Prerequisite: SPAB02
Corequisite: SPAB03

SPAB26F/5: Spanish American literature: A Survey
Prerequisite: SPA101

SPAB30F/5: The Novel of the Mexican Revolution
Prerequisite: SPAB01

JMB311: The Nineteenth Century Latin-American Novel and the European Tradition
Exclusion: HUM102, SPAB311
Prerequisite: SPAB03 for Spanish majors. None for others

SPAB33F/5: Spanish American Poetry 1690-1920
Exclusion: HUM105
Prerequisite: SPAB03

SPAB35F/5: Medieval Literature: Prose
Exclusion: SPA222, Prerequisite: SPA103

SPAB36G: The Literature of the Spanish Mystics
Corequisite: SPAB03

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**Timetable**

**Key**

Explanation of Suffixes, T, A, T, F and W

- 'T' A course taught throughout the session worth one full course credit.
- 'A' A course taught in the first term and worth one full course credit.
- 'W' A course taught in the second term and worth one full course credit.
- 'F' A course taught in the first term and worth one-half course credit.
- 'W' A course taught in the second term and worth one-half course credit.

Explanation of M, T-W, F and T, W, R, F:

M, T-W, F, R, T, W, F - the days of the week with W denoting Thursday.
T, W, R - denotes that the student is responsible for arranging time and/or room with the instructor for that course.

Explanation of Letters

L - lectures,

F - practical work in laboratories or studio (F denotes every 2nd, 4th and 6th week)

T - tutorials

E - evening

Explanation of Lecture Section Numbers

21 etc. - day sections

10 etc. - evening sections

**Tying of Sections**

Some lecture, practical and tutorial sections must be taken as a "package". This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g. P301 and T301 must be taken with L301 and T302 must be taken with L302.

The reason for "tying" sections is that the subject matter may differ from section to section. Many courses are "nested" so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be M, W, P001 or P002 and T001 or T002 may be taken with L01 or L02 or L03.

**Notes**

Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.
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**Summer Session Courses 1978**

**Department of Anthropology**

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REQUEST TO REGISTER IN A SUPERVISED READING OR RESEARCH COURSE

To Be Completed By Student

Name: 
Student Number: 
Session: 
Course: 
Proposed area of study: 
Previous courses in discipline: 

Signed: 
Date: 

To Be Completed By Instructor
I approve 
's registration in the course 
, and agree to act as the supervisor of studies. Evaluation: 

Signed: 
Date: 

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