

UNIVERSITY
OF
TORONTO

SCARBOROUGH
COLLEGE

SUPPLEMENTARY
CALENDAR

1977-78

RETURN To: S415A
Convocation and
Student Records



1927-1977

1977-1978
Sup. Calendar (Scar.)

Important Notes

- 1) This 1977-78 Supplementary Calendar should be used in conjunction with the 1976-77-78 Scarborough College Calendar. The corrigenda to the 1976-77-78 Scarborough College Calendar (page i to xiii) supercedes any information given in that Calendar. Changes in course information e.g. pre and co-requisites are included in this Supplementary Calendar and therefore supercedes such information given in the College Calendar.
- 2) a) Students are urged to study carefully pages 74-76 of the Calendar 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.

If a prerequisite for a course is "Permission of Instructor" students should request the course when making their course selection. The instructor will decide during the first week of classes whom he will admit.

Students selecting supervised reading or research courses must obtain the permission of the instructor prior to registering in the course. Approval forms are included in the back of the 1977-78 Supplementary Calendar.
Since instructors may not be available during the summer, you are urged to obtain their permission before you leave the campus at the end of the 1976/77 Winter Session. (see College Calendar pg. 75 & 76)
- b) 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 degree requirements and academic regulations and with the Academic Calendar.
- c) Students interested in following Programmes of Study, Related Studies Programmes or Major Programmes should consult pages 44-70 of the Scarborough College Calendar and the corrigenda to the College Calendar (pages ix to xiii in this Supplementary Calendar).
- 3) A number of courses are jointly offered by different disciplines; a list of these courses is given on page 193.
- 4) At the time of printing, the courses of instruction described in this Supplementary Calendar are only those which will be offered in the academic year 1977-78. However, it may happen that some courses may require to be changed in content or to be withdrawn. In such cases, Scarborough College will make every effort to provide equivalent alternative instruction, but the provision of such instruction cannot be guaranteed.
- 5) "The Government of Ontario has recommended an increase in general tuition fees of \$50.00 per term for students enrolled in a full programme. The University has not yet decided its policy in this matter but there is a probability that fees will be increased in 1977-78. Fee increases will be prorated for students enrolled in less than a full programme". (see page 24 of the 1976-77-78 College Calendar.)

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

Students are responsible for notifying the Academic Services of any changes in their academic programme, name

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Winnie

Fees and Aid

(a) Students in the Credit Transfer Programme pay the appropriate fees at the host university, and a nominal fee to the University of Toronto per term of study elsewhere in order to maintain registration in Scarborough College.

(b) Students in the Supervised Study Elsewhere Programme pay the regular Scarborough College fees per course.

(c) Students in a mixed programme pay the nominal registration fee and the regular course fee for each Scarborough College course in which they register.

(d) Depending upon the Programme followed and its length of time there may be access to student aid. Consult the Student Services Office.

Application

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

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

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

Regulations

(a) Any student of the College who is not on probation or returning from suspension, and who has completed four full courses, may apply for admission to the Study Elsewhere Programme.

(b) Applications require the approval of the Academic Affairs Committee.

(c) Since registration in Scarborough College is maintained, the general regulations of the College obtain for students in the Study Elsewhere Programme.

(d) No more than six full courses in a degree programme may be taken in the Study Elsewhere Programme.

vi) French (see page 59 of College Calendar)

Replace paragraph (5) with the following:

It is recommended that the student include in his programme one full course equivalent from the FRECO2-C07 and C90 series (Supervised Reading) involving individual research in a specific area. (Such a course may also count toward satisfying requirements in (2), (3) and (4) above.)

vii) History (see page 62 of College Calendar)

Pre-1815 courses

List A

Delete HISCL1Y: Western Europe in the Seventeenth Century

Add HISB08Y: Europe in the Middle Ages
HISB61Y: The Beginnings of France: Constantine to Charlemagne
HISC62Y: Europe in the High Middle Ages

viii) Psychology (see page 68 of College Calendar)

Add to Item 7: At least one full-course equivalent must be drawn from courses other than PSYC90, PSYC93 and PSYC98

ix) Spanish

Supervisor of Studies: P.R. León

Students should complete at least nine full courses (or equivalent) in Spanish. The programme should be made up as follows:

- (i) 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): SPAA01Y (students without Grade 13 Spanish)* or SPAB01Y (students with Grade 13 Spanish) SPAB04F

Second year of full-time study (or equivalent): SPAB01Y (unless completed in first year)

Third year of full-time study (or equivalent): SPAB12S; SPAC01Y

- (ii) Six full courses (or equivalent) from among the following:

SPAB03S Pre-Literary Examination of Texts
SPAB09F/S Cultural Aspects of Spain
SPAB10F/S The Civilization of Latin America

Survey of Literature courses: SPAB18Y, SPAB19Y

Modern Literature courses: SPAB13F, SPAB17F, SPAB27F, SPAB29F/S, SPAB30F/S, JSBH31Y, SPAB33F/S, SPAB34S

Golden Age Literature courses: SPAB23Y, SPAB25F/S, SPAB26S, SPAB37S

* SPAA01Y does not count as one of the nine full courses required for a major programme

SPAB21F/S Stylistics and Translation
SPAB35F/S Medieval Literature: Prose
SPAB36F/S Medieval Literature: Poetry
SPAC02-C11 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 in Spanish.

IV. ENROLMENT ON THE ST. GEORGE CAMPUS

With the beginning of the Summer session 1977, Scarborough College degree students will be permitted to include up to three full course equivalents on the St. George campus in the first fifteen credits taken (or credited from elsewhere). Students who have standing in more than three St. George campus courses by that time will be allowed to retain credit for them, but would not be allowed to include any more in their first fifteen credits. Petitions to take more than three of the first fifteen credits on the St. George campus will be considered by the Faculty of Arts and Science. Such requests will be granted only in exceptional circumstances. Scarborough College students will continue to be allowed to take the sixteenth-twentieth credits on the St. George campus.

V. STUDY ELSEWHERE PROGRAMME

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

Programmes of Study

There are basically two types of Study Elsewhere:

(a) Students may register at a host university and follow its courses for credit; these credits may then be approved by the Academic Affairs Committee and translated into Scarborough College credits (the "Credit Transfer" Programme);

(b) Students may elect to do Scarborough College supervised reading or independent studies courses off-campus in a location which will enhance their education in these courses (the "Supervised Study Elsewhere" Programme).

A mixed programme of study is of course possible, with some courses followed at a host university for credit transfer, and some Scarborough College supervised study courses taken while the student is on the host campus.

Supervisor of Studies: W.C. Graham

Taken as part of a fifteen-course degree, the course of studies must include:

- (1) HUMA01Y
- (2) PHLA01Y
- (3) FARA04Y
- (4) One full course equivalent emphasizing major scientific ideas: i.e., one of NSCA01Y, NSCA02Y, or ASTA03Y, or the equivalent.
- (5) At least one full course equivalent in History (including Greek and Roman History). Recommended courses are HISA01Y, HISB08Y, GRHB01Y, GRHB02Y, GRHB03Y.
- (6) At least two full course equivalents in a language foreign to the student.
- (7) At least two full course equivalents in Philosophy (4 Half-Courses) from among PHLB12, B40 to B49.
- (8) One full course equivalent emphasizing major ideas in the Social Sciences. Recommended are POLB03Y, POLB06Y, SOCB03Y, SOCB22Y or the equivalent.
- (9) HUMC10H
- (10) Electives should, for the most part, develop work done in other courses.

Taken as part of a twenty-course degree, the course of studies must also include:

An Independent Study Year, i.e., HUMC95-99Y, or its equivalent within one or more disciplines.

Major Programmes

New Programme

Economics and Political Science

Supervisors of Studies: J. Cohen (Economics), E. Andrew (Political Science)

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

Required courses in Economics:

ECOA01Y
ECOB01F/S
ECOB05F/S, ECOB06S
ECOB31S, ECOB32F
ECOB35S

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

A: ECOB20F or ECOB21S or ECOC05S or ECOC07F
B: ECOB68F or ECOB66F
C: ECOB11F/S or MATB52F and B57S

Required courses in Political Science:

POLA01Y
POLB06Y or POLB03Y
POLB02F/S or POLB05Y or POLB35Y

Also, three courses from at least two of the categories A, B, C, D below. Alternative courses in political theory or Canadian government may be acceptable if chosen in conjunction with the Supervisor of Studies.

A: POLB10Y or POLB40Y or POLCO8Y
B: POLB18Y or POLB23Y or POLB26Y
C: POLB12Y or POLB17Y or POLB33Y or POLB38Y
D: POLB30Y or POLB24Y

Related courses in other disciplines:

MATA22Y or MATA26Y, CSCA56F, COMA01Y.

Changes in Existing Major Programmes

i) Biology (see pages 49/50 of College Calendar)

Item 2C add BIOB47Y
Item 3 add BIOB31F and BIOB46S
Item 4 add BIOB47Y
Item 5 add MATA22Y
Item 6 add SOCB19Y

The following courses have been deleted from the course offerings and should therefore appear in parenthesis:

Item 2b (BIOB40S)
Item 2c (BIOB34S)
Item 2d (BIOB44S) Remove BIOB37Y
Item 3 (BIOC07F) (BIOC04Y)
Item 4 (BIOB34S) Remove BIOB37Y

ii) Chemistry (see pages 50/51 of College Calendar)

Students should complete the fifteen required courses

Item 2: CHMB02F/S changes to CHMB02Y
CHMB05Y should be replaced by CHMB06Y

iii) Chemistry and Biochemistry

Item 2, lines 1-7 should read:

In the second and third years of full-time study (or equivalent):

CHMB01Y Inorganic Chemistry I
CHMB02Y Analytical Chemistry
CHMB03Y Physical Chemistry
CHMB05Y Organic Chemistry
JBCB35Y Introductory Biochemistry
JBCB36H Laboratory in Biochemistry
CHMC01Y or CHMC02Y . . . etc.

iv) Chemical Physics (see page 52 of the College Calendar)

Item 1: Mathematics component should read:

MATA26Y or (MATA55Y; MATA40F; MATA45S)

v) Computer Science (see page 54 of College Calendar)

line 3/4 should read:

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

Special Examinations

Students receiving special consideration are permitted to write special examinations. There is no provision for students to write supplemental examinations or to re-write examinations in any courses in which they have obtained a grade of D- or higher.

Petitions for Exception from the Rules

Any academic rule or regulation may be petitioned.

In cases involving unusual circumstances, students may be granted exceptions to any of the academic regulations of the College. Students may request exceptions by means of a petition to the College's Sub-committee on Standing. Prospective petitioners should consult the Student Services Office (S418C), telephone 284-3292.

Decisions of the Sub-committee on Standing may be appealed to the College Sub-committee on Academic Appeals. Appellants should consult the Director of Academic Services (S413), telephone 284-3266.

Further appeals must be directed to the Governing Council's Sub-committee on Academic Appeals (consult Ms. M. Salter, Secretary to the Sub-committee, 978-8794).

Academic Records

Degrees

A student may receive only one undergraduate Arts and Science degree from the University of Toronto, a Bachelor of Arts or a Bachelor of Science.

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 must so notify the Academic Services Office well in advance of the appropriate University Convocation. Forms for this purpose will be mailed to all eligible students well in advance.

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 error a student who elects to receive his twenty-course degree should so notify the Office of Academic Services well in advance of the appropriate Convocation. Forms for this purpose will be mailed to all eligible students well in advance.

Transcripts

The transcript of a student's academic record reports: the student's admission record; standing in all courses attempted; the imposition of suspension or refusal of further registration; completion of the fifteen-course and twenty-course degree requirements; date of conferral of the degree; and completion of any recognized programme of study listed in the "Programmes of Study" of the 1976/77/78 Scarborough College Calendar.

Copies of a student's transcript of academic record will be issued at his request, subject to reasonable notice and a nominal copying fee. Requests and payment in advance should be submitted in person or by writing to the Office of Academic Services, Scarborough College, 1265 Military Trail, West Hill, Ontario, M1C 1A4. Telephone requests cannot be honoured.

Checking of Marks

(1) Courses with final examinations.

Any examination script with a grade of 'E' or 'F' is re-read before grades are submitted.

After the issue of final results and within six months of the final examination period a student may request from the Office of Academic Services a reproduction of his final examination for a fee of \$5.00 to cover costs. If he subsequently wishes to have his paper re-read and/or a clerical check of his marks made, he must set down his reasons, and petition within six months after the final examination period to the Sub-committee on Standing.

(2) Courses with no final examinations.

Within the period specified above, a student may request to have a clerical check of his marks made upon payment of a \$5.00 fee to cover costs. If an error is discovered the student should submit a petition to the Sub-committee on Standing requesting that the mark be changed upwards. In this instance the fee will be refunded.

II. NEW COURSES

Details of the following new courses are given in the Supplementary Calendar within the appropriate discipline sections:

ANTB25Y; ANTB44Y; ANTB45Y
BIOB46S; BIOB47Y
CSCC44F
CHMB06Y
COMC15Y
ECOB12S; ECOC13F; ECOC14S
FARB43Y; FARB90F; FARB91S; FARC24F; FARC25S
GGRB20Y; GGRB21S; GGRB22F; GGRB23Y; GGRC23F; GGRC24S
FREB39F; HISC62Y
HUMA10Y; HUMB06S; HUMB09F; HUMB27S; HUMB51S
POLB42Y; POLC13F; POLC14S; POLC15S; PHYB17S
SOCC28F; SOCC29S
SPAB01F; SPAB37S; SPAC01Y

III. NEW PROGRAMMES OF STUDY AND CHANGES IN EXISTING PROGRAMMES OF STUDY

Related Studies Programme

New Programme

The History of Ideas

What has man made of man? The history of ideas is a special kind of Humanities Programme for those who want to study the impact of major ideas on the development of western civilization. The programme offers a solid grounding in the intellectual history of mankind. The student is also helped to concentrate on areas of special interest to himself. Those who elect to take a twenty-course degree will take an individual study year with the supervision of several faculty members.

Number of courses attempted	Put on Probation if Fewer than		
	(i) Credits at a grade of C- or higher	(ii) Credits at a grade of D- or higher	Suspended for one (1) year if 'E' or 'F' in more than
1-1½	-	-	-
2-2½	-	-	-
3-3½	-	-	2
4-	2	2½	2
4½-5	2½	3½	2
5½-6	3	4½	2
6½-7	3½	5½	2½
7½-8	4	6	2½
8½-9	4½	7	2½
9½-10	5	8	2½
10½-11	5½	9	3
11½-12	6	9½	3
12½-13	6½	10½	3
13½-14	7	11½	3
14½-15	7½	12½	3½
15½-16	8	13	3½
16½-17	8½	14	3½
17½-18	9	15	3½
18½-19	9	16	3½
19½-20	10	17	3½
20½-21	11	18	3½
21½-22	12	19	3½
22½-23	13	20	3½
23½-24	-	-	-

A student on probation or returning from a one-year suspension may not enrol in more than five (5) full courses or equivalent.

(3) Suspension for Three Years

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

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

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

(4) Refusal of Further Registration

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

(5) Refusal of Further Registration to Special Students

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

SECTION C

NOTE: THE REGULATIONS IN THIS SECTION APPLY TO ALL STUDENTS

Withdrawal

(See pages 27-29 of the 1976/77/78 Scarborough College Calendar for information about withdrawal procedure.) For withdrawal dates please refer to the Academic Calendar in the 1977/78 Supplementary Calendar.

(1) The Winter Session

A student may withdraw without academic penalty in any session from a

- first term course until the seventh Friday in the first term,
- second term course until the seventh Friday in the second term,
- year course until the second Friday in the second term.

(2) The Summer Session

Withdrawal dates for the Summer Session vary slightly from year to year. Please refer to the Academic Calendar in the Supplementary Calendar for precise dates.

Special Consideration

If the ability of a student to complete a course is affected by illness or domestic problems occurring after the final date for withdrawal without academic penalty from the course, a petition may be submitted to the Sub-committee on Standing. If there are adequate grounds for the petition, the Division concerned will determine the status of the work done by the student and the steps, if any, that the student must take in order to complete the course. Students may be given the opportunity to submit assignments late or to write special examinations.

Any petition for special consideration must be submitted on or before the last day of the relevant examination period, together with a medical certificate which includes a statement that the student was examined at the time of the illness, or together with other evidence to support the petition.

(4) Suspension for Three Years

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

- (a) the student fails+ six full courses or equivalent,
- (b) the student fails to satisfy the requirements for a fifteen-course degree in the first twenty attempts,
- (c) while on academic probation a second time the student
 - (i) fails+ two full courses or more, or
 - (ii) does not regain the required 50% of courses at grade C- or higher,
- (d) after return from a one-year suspension the student
 - (i) fails+ two full courses or more in any session, or
 - (ii) fails to recover the required 50% of courses at grade C- or higher by the end of the session, or, in the case where that is impossible, fails to obtain grade C- or higher in any course attempted until such time as the 50% requirement has been satisfied.

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

(5) Refusal of Further Registration

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

(6) Refusal of Further Registration to Special Students

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

SECTION B

NOTE: THE REGULATIONS IN THIS SECTION APPLY TO STUDENTS ADMITTED FOR THE 1975 SUMMER SESSION AND SUBSEQUENT SESSIONS. BEGINNING WITH THE 1978 SUMMER SESSION THESE REGULATIONS WILL APPLY TO ALL STUDENTS.

Requirements for the Fifteen-course Degree

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

- (1) obtained a grade of D- or better in at least fifteen full courses or equivalent; and
- (2) obtained a grade of D- or better in at least eight B- and C-level full courses or equivalent; and

- (3) obtained a grade of C- or better in at least nine full course equivalents; of these courses with a grade of C- or better, at least five must be B or C level courses; and
- (4) for a Bachelor of Science degree, obtained a grade of D- or better in at least six B or C level full courses in one or more of the following disciplines: Astronomy, Anthropology*, Biological Science, Chemistry, Computer Science, Geography**, Geology, Mathematics, Physics, Psychology***.

Requirements for the Twenty-course Degree

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

- (1) obtained a grade of D- or better in twenty courses; and
- (2) obtained a grade of D- or better in at least thirteen 'B' and 'C' level courses; and
- (3) obtained a grade of C- or better in a total of at least thirteen full course equivalents; of these thirteen courses at least nine must be 'B' or 'C' level courses;
- (4) for a Bachelor of Science degree, obtained a grade of D- or better in at least nine 'B' or 'C' level full courses in one or more of the following disciplines: Astronomy, Anthropology*, Biological Science, Chemistry, Geography**, Geology, Mathematics, Physics, Psychology***.

* The following courses in Anthropology fulfill the requirements for the B.Sc. degree: ANTB11F/S, B12F/S, B14Y, B15Y, B22Y, B26Y, B27F, B29Y, B33E, B36Y, B39Y, and B40Y.

** The following courses in Geography fulfill the requirements for the B.Sc. degree: GGRB02Y, B03Y, B07Y, B10Y, B11Y, B15Y, C05F, C06F, C08F, C15S and C19F. In addition the following courses may be used to fulfill B.Sc. requirements for students researching or reading in appropriate scientific areas of Geography: GGRB09Y, B16Y, C01Y, and C07Y.

*** JLPB55 will not normally be credited towards the B.Sc.

Regulations Governing Overall Standing

(1) Average Mark and Class Standing

No average mark or class standing is calculated or indicated on any transcript of record (except for full-time students in the 1972-73 session and previously, for whom average grades are indicated for these sessions only).

(2) Academic Probation and Suspension for One Year

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

- 35-49 E Inadequate performance in the subject; evidence of familiarity with only some of the subject matter; the presence of some critical and analytic skills.
- 0 -34 F Inadequate performance in which there is little evidence of even a superficial understanding of the subject matter; in which there is weakness in critical and analytic skills, with limited or irrelevant use of literature.

SECTION A

NOTE: THE REGULATIONS IN THIS SECTION APPLY TO STUDENTS ADMITTED BEFORE THE 1975 SUMMER SESSION. THE REGULATIONS WILL EXPIRE AT THE END OF THE 1977-78 WINTER SESSION, AT WHICH TIME THE REGULATIONS OF SECTION B WILL APPLY TO ALL STUDENTS.

Requirements for the Fifteen-course Degree

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

- (1) obtained a grade of D- or better in at least fifteen full courses or equivalent; and
- (2) obtained a grade of D- or better in at least eight 'B' and 'C' level full courses or equivalent; and
- (3) obtained a grade of C- or better in at least eight full course equivalents; of these courses with a grade of C- or better, at least four must be 'B' or 'C' level courses; and
- (4) for a Bachelor Science degree, obtained a grade of D- or better in at least six 'B' or 'C' level full courses or equivalent in one or more of the following disciplines: Astronomy, Anthropology*, Biological Science, Chemistry, Computer Science, Geography**, Geology, Mathematics, Physics, Psychology***.

Requirements for the Twenty-course Degree

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

- (1) obtained a grade of D- or better in twenty full courses or equivalent; and
- (2) obtained a grade of D- or better in at least thirteen 'B' and 'C' level full courses or equivalent; and
- (3) obtained a grade of C- or better in a total of at least twelve full course equivalents; of these twelve courses at least eight must be 'B' or 'C' level courses; and
- (4) for a Bachelor of Science degree, obtained a grade of D- or better in at least nine 'B' or 'C' level full courses in one or more of the following disciplines: Astronomy, Anthropology*, Biological Science, Chemistry, Computer Science, Geography**, Geology, Mathematics, Physics or Psychology***.

* The following courses in Anthropology fulfill the requirements for the B.Sc. degree: ANTB11F/S, B12F/S, B14Y, B15Y, B22Y, B26Y, B27F, B29Y, B33S, B36Y, B39Y, and B40Y.

** The following courses in Geography fulfill the requirements for the B.Sc. degree: GGRB02Y, B03Y, B07Y, B10Y, B11Y, B15Y, C05Y, C06F, C08F, C15S and C19F. In addition the following courses may be used to fulfill B.Sc. requirements for students researching or reading in appropriate scientific areas of Geography: GGRB09Y, B16Y, C01Y and C07Y.

*** JLPB55 will not normally be credited towards the B.Sc.

Regulations Governing Overall Standing

(1) Average Mark and Class Standing

No average mark or class standing is calculated or indicated on any transcript of record (except for full-time students in the 1972-73 session and previously, for whom average grades are indicated for these sessions only).

(2) Academic Probation

A student will be placed on academic probation if:

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

+ fails throughout this section means achieved a grade of 'E' or 'F'. Both 'E' and 'F' are failing grades.

or if

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

A student on probation may not register for more than five (5) full courses or equivalent in a winter session.

(3) Suspension for One Year

A student will be suspended from the College for one calendar year if:

- (a) while on academic probation the student fails+ two full courses or more, or
- (b) the student does not gain or regain the required 50% of courses at grade C- or better within the specified period on academic probation.

A student returning from a one-year suspension may not register for more than five (5) full courses or equivalent in a winter session.

Corrigenda to the 1976-77-78 College Calendar

The following (blue) pages include the official corrigenda to the 1976-77-78 Scarborough College Calendar (hereafter called the College Calendar) and this information supercedes any given in that Calendar.

The Corrigenda contains revised information on:

I. DEGREE REQUIREMENTS AND ACADEMIC REGULATIONS

General Requirements

- (1) Each student plans his own programme by combining any number of courses or half-courses up to the maximum stated below, subject only to the following regulations:
 - (a) The degree requirements set out below shall be satisfied.
 - (b) All stated prerequisite and corequisite requirements shall be satisfied.
 - (c) Any two (2) half-courses are equivalent to one full course.
- (2) Students of Scarborough College are permitted to proceed towards a degree at a rate of their own choosing, except that students on probation or returning from a one-year suspension may not take more than five (5) full courses, or equivalent, in the winter session.
- (3) The usual load for a student who wishes a full-time programme in the winter session is five (5) full courses or equivalent.
- (4) The usual maximum load for a student in the summer session is two (2) full courses or equivalent.
- (5) A student will not be given credit for a course which the discipline concerned considers to be propaedeutic (elementary) to a course in which the student has already obtained standing.

Standing in a Course

<u>Marks</u>	<u>Grade</u>	<u>Definition</u>
90-100	A+	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.
85-89	A	
80-84	A-	
77-79	B+	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.
73-76	B	
70-72	B-	
67-69	C+	Intellectually adequate performance of a student who is profiting from his/her university experience; an understanding of the subject matter and an ability to develop solutions to simple problems found in the material.
63-66	C	
60-62	C-	
57-59	D+	Minimally acceptable performance; some evidence of familiarity with the subject matter and some evidence that critical and analytic skills have been developed.
53-56	D	
50-52	D-	

SUPPLEMENTARY CALENDAR

Academic Calendar

Summer Session, 1977

	1 April	Last day for new students to apply for admission to the University wishing to enrol in 'Y', 'F' or 'H' courses.
	15 May	Last day for new students to apply for admission to the University wishing to enrol in 'B' or 'S' courses.
Monday	9 May	Registration Week for students who did not complete registration procedures previously.
Thursday	12 May	Last day to register for 'Y', 'F' and 'H' courses.
Monday	16 May	Classes for 'Y', 'F' and 'H' courses begin.
Friday	20 May	Last day to add 'Y', 'F' or 'H' courses.
Monday	23 May	Victoria Day - University closed.
Friday	10 June	Last day to withdraw without academic penalty from 'F' courses.
Friday	24 June	Last day to register for 'B' and 'S' courses.
Thursday	30 June	Last day of classes in 'F' courses. Last day for submission of term assignments. Final examinations, if required, will be held in the last class period.
Friday	1 July	Dominion Day - University closed.
Monday	4 July	'B' and 'S' courses begin.
Friday	8 July	Last day to add 'B' or 'S' courses. Last day to withdraw without academic penalty from 'Y' and 'H' courses.
Friday	29 July	Last day to withdraw without academic penalty from 'B' or 'S' courses.
Monday	1 August	Civic Holiday - University closed.
Friday	12 August	Last day of classes in St. George and Erindale Campus courses.
Monday Friday	15 August - 19 August	Examination week in St. George and Erindale Campus courses.
Friday	19 August	Last day of classes in Scarborough Campus courses. Last day for submission of term assignments. Final examinations, if required, will be held in a class period of the last week.

Winter Session, 1977-78

	1 June	Last day for current students to request a transfer to another College.
	1 July	Last day for new students to apply for admission to the University for the Winter Session 1977-78.
	1 August	Last day for former students with at least one half credit in the College, and who did not register in the preceding Summer or Winter sessions, to request re-enrolment for the Winter session 1977-78.
Monday	5 September	Labour Day - University closed.
Tuesday	6 September	Registration for students who did not complete all registration procedures previously begins.
Friday	9 September	Last day to register for the 1977/78 Winter Session.
Monday	12 September	Classes for the 1977-78 Academic Year begin. 'Y', 'H', 'F' and 'A' courses begin.
Friday	23 September	Last day to add 'Y', 'H', 'F' or 'A' courses.
Friday	30 September	Last day for receipt of applications for Ontario Student Assistance (OSAP).
Monday	10 October	Thanksgiving Day - University closed.
Friday	28 October	Last day to withdraw without academic penalty from first term 'F' or 'A' courses.
	15 November	Last day for receipt of application for University of Toronto In-Course Awards.
Friday	9 December	Last day of classes in the first term.
Monday	12 December	Last day for submission of term assignments in 'F' and 'A' courses.
Monday Thursday	12 December - 22 December	Term test and final examination period.
1978		
Tuesday	3 January	Classes for the second term begin. Second term 'B' and 'S' courses begin.
Friday	13 January	Last day to add 'S' or 'B' courses. Last day to withdraw without academic penalty from 'Y' and 'H' courses.
	1 February	Last day for receipt of applications for Scarborough College bursaries.
Monday Friday	13 February - 17 February	Reading Week - all classes cancelled.
Friday	17 February	Last day to withdraw without academic penalty from 'S' or 'B' courses.
Friday	24 March	Good Friday - University closed.
Monday	10 April	Last day of classes.
Monday	17 April	Last day for submission of term assignments for 'Y', 'H', 'S' or 'B' courses.
Monday Tuesday	17 April 9 May	Annual examinations begin. Annual examinations end.
Monday	12 June	University Convocation begins.

Anthropology

Anthropology is the study (or science) of humankind, dealing with the origin, development and nature of humans and their culture. As such it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines societies today and in the past, as part of complex civilizations and in relatively small-scale non-literate societies. From this vantage point Anthropology attempts to arrive at an understanding of the common factors underlying human existence and to isolate the causes that have led and continue to lead to social and cultural change (and to 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, Prehistoric Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, Scarborough College offers courses in the first three only, with occasional offerings in the last (however, the Humanities Division present several courses in Linguistics).

Students wishing to major in Anthropology are advised to consult with the supervisor of studies, Professor H.B.Schroeder (Room S-311 or H-423), ANTA01Y is normally required of all students entering the programme. A document listing some possible programmes of study in Anthropology is available from the office of the Division of Social Sciences (H-411).

ANTA01Y

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 humans. 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: J.A.Davies/TBA Session: Summer Day,
Winter Day and Evening

Content: The course is designed to introduce the student to all members of the Anthropology Department, and lectures deal with specialty area topics given by different department members. Emphasis is given to Anthropology as a process, and how cultural and environmental change affect the development of human populations through time and space.

Teaching Method: 3 one-hour lectures and one laboratory tutorial per week.

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

ANTB01F

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, ecological aspects of warfare and demography, etc. Cases will be drawn largely from non-industrialized societies.

Instructor: T.B.A. Sessions: Summer Evening
Winter Day

Teaching Method: Lectures and discussion.

Evaluation: Essay and Test.

ANTB02S

Anthropological Study of Religion

Prerequisite: ANTA01

Course description: A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights and obligations arising out of human dependence on such beings and of magic, curing, witchcraft and sorcery.

Instructor: C.Hopen

Session: Winter Day

Teaching Method: Seminar

Evaluation: Essay and test.

ANTB03S

The Americas: An Anthropological Perspective

Course description: The origin and development of native cultures in the New World, with particular emphasis upon changes due to European contact. Patterns of race in the Americas, with emphasis on Latin America.

Instructor: R.W.Shirley

Session: Winter Day

Teaching Method: Seminar

Evaluation:

1 Major paper
1 Test paper.

ANTB05Y

Social Anthropological Study of Africa

Prerequisite: ANTA01

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

Instructor: C.Hopen

Session: Winter Day

Content: This will be a study of the major institutions of African society, their ecology, economic, religious and domestic organizations.

Teaching Method: Seminar

Evaluation:

1 Major paper
1 Test paper

ANTB06S

Cultures of Oceania

Course description: In Oceania many small societies with highly diverse cultures have developed in comparative isolation. The course will survey their kinship structures, economics, political systems, religions and art, drawing from an extensive literature much of which because of its theoretical importance, is basic for the study of general Anthropology.

Instructor: T.B.A.

Session: Winter Day

Teaching Method: Seminar

Evaluation:

1 major essay
1 test paper.

ANTB07S Comparative Slavery

Prerequisite: ANTA01

Course description: An examination of "slavery" as an institution in several areas of the world, including Brazil, Africa, the Caribbean, and the United States. An effort will be made to examine the modern consequences of slavery as well.

Instructor: R.W. Shirley Session: Winter Day

Teaching Method: Seminar

Evaluation:

- 1 Major essay
- 1 Test paper.

ANTB08S Anthropology of Development

Course description: An analysis of problems of development and underdevelopment in the world, including the problems connected with "secondary development" in industry and politics.

Instructor: R.W. Shirley Session: Winter Day

Teaching Method: Seminar

Evaluation:

- 1 Major essay
- 1 Test paper.

ANTB09Y History of Ethnological Theory

Prerequisite: ANTB20 or permission of the instructor

Course description: A seminar discussion on basic problems and methods in Anthropology. A short survey of past and present anthropological theory will be presented and current schools of thought debated.

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

Content: The course will deal with various models used to conceptualize social processes. Students are expected to have some familiarity with ethnographic examples to illustrate various theoretical perspectives. Topics would include evolutionary models of society, society as transaction and interaction, society as moral and jural structure, society as exchange, and society as symbolic structure.

Teaching Method: Seminar

Evaluation:

Seminar contributions,
Major paper.

ANTB12F Prehistory of the Holocene

Prerequisite: ANTA01, ANTB26 is recommended

Course description: Examination of the major prehistoric cultural developments of the post-Pleistocene period, emphasizing the ecological factors and the archaeological evidence bearing on the beginnings of permanent settlements, the domestication of plants and animals, and the origin of urban society.

Instructor: H.B. Schroeder Session: Winter Day

Content: 1) The origin of agriculture. Sub-topics include: history of investigations, current explanations and hypotheses, the natural science background (environmental and demographic considerations), the archaeological evidence (southwest Asia, southeast Asia, Meso-america and Peru). 2) The spread of agriculture into Europe and Africa. 3) The origins of urbanism, complex societies, and civilization. Sub-topics include: environmental and social factors, the archaeological evidence (Mesopotamia, Nile Valley, Indus Valley, Huang-ho basin, Western Hemisphere).

Teaching Method: Two hours of lecture and one hour of laboratory/tutorial per week.

Evaluation: (tentative) a final exam (40%) and a research paper involving the use of primary archaeological data and/or geographical and biological information (60%).

ANTB14Y

Human Evolution

Prerequisites: ANTA01. ANTB15 or (BIOB14) 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 text. Class discussion and presentation of assigned readings are expected. Laboratory sessions permit the student to examine fossil cast materials.

Instructor: L. Williams 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 hominid fossils and attempts to synthesize a meaningful interpretation out of what is presently known concerning human origins.

Objectives: 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
- 1 paper
- 1 final exam.

ANTB15Y

Introduction to Physical Anthropology

Prerequisites: ANTA01 or ANTB14

Course description: A survey of man's place in nature: his origin (fall) and ongoing evolution (spring). Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Three hours of laboratory per week acquaint the student with the methods and materials utilized by the Physical Anthropologist.

Instructor: L. Sawchuk 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 behaviour of non-human primates, taxonomy and classification, paleontological principles and human origins. Lab time is reserved for the qualitative and quantitative assessment of contemporary human variation, human osteology and fossil cast 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.

ANTB16S

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-Eskimo) and formerly-immigrant groups, both rural and urban, will be treated in the same general framework. The course will attempt to place local and regional ethnic groups and subcultures in a national political and economic context.

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

Teaching Method: In seminar and lectures.

Evaluation: Essay and test.

ANTB17S

Complex Societies

Prerequisite: ANTA01

Course description: The focus of study will be on peasant and plural societies in which special attention will be paid to problems of detribalization, urbanization, and personal adjustment as well as adaptation to urban situations. The study will draw upon third world economic and social adjustments to new situations.

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

Teaching Method: Lectures and discussions.

Evaluation:

Examination and essay.

Prerequisite: ANTA01Y 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 of this course will be upon the contemporary approach to evolution with cases drawn from ethnological, ethnohistorical and archaeological sources.

Instructors: M.R.Kleindienst (Spring) Session: Winter Day
T.F.S.McFeat (Fall)

Content: Special attention 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 relation of evolution to revolution; concepts of levels of integration.

Teaching Method: Class and Seminar.

Evaluation: Major papers, one in each term. Whether tests or not to be determined.

Exclusions: (ANTA02)

Prerequisite: ANTA01

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

Instructors: J.A.Davies/T.B.A. Sessions: Summer Day
Winter Day

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

Teaching Method: 2 hours per week of lectures and seminar discussion.

Evaluation: The course evaluation depends upon a final examination (40%) and on the completion of a research paper (60%) that must involve consideration of economic anthropology, as an interdisciplinary study.

Prerequisite: ANTA01

Course description: "Kinship" is to Anthropology what logic is to Philosophy or the nude is to art; it is the basic discipline of the subject." (Fox). The purpose of the course is to teach something about the species Homo sapiens by analysing variations in social structure.

Instructor: C.Hopen Session: Winter Day

Content: A study of the major institutions of the world will be presented comparatively. This will involve the study of domestic, economic, religious and magical institutions as well as studies pertaining to the integration as well as change in the world's small scale societies.

Teaching Method: Lecture and discussion.

Evaluation:

Examination and essay.

Prerequisite: ANTA01

Course description: A survey of indigenous cultures as they developed in North America north of Mexico before, during and after European expansion. The material will be largely drawn from a selected sample of Indian societies as described in the ethnographic present (three to 300 years ago).

Instructor: T.B.A. Sessions: Summer Evening
Winter Day

Content: The cultures of North America (Indian and Inuit) have a long history of adaptation to their natural surroundings and adjustment to invading Europeans and Anglo-Americans. Still, their distinctive cultures tend toward uniqueness and interest in their own right: the Plains, The Northwest Coast of Canada, the Subarctic Hunters, the Pueblos of New Mexico, the Woodland Tribes of the Northeast will all be considered; the acculturation which some have undergone will be introduced as part of the discussion.

Teaching Method: Lecture and discussion.

Evaluation:

Essay and examination.

Prerequisite: ANTA01 or PSYA01 or BJOA03

Course description: A general review of primate behaviour in its ecological setting.

Instructor: F.D.Burton Session: Winter Day

Objectives: Knowledge of taxonomy, distribution, ecology, social behaviour of Order Primates. Appreciation of human place in the animal kingdom. Humankind represents only a tiny portion of the Order Primates. The interest in our own species has generated a proliferation of studies on the other members of this Order. The anthropological bias in such studies is clearly to gain a perspective on human evolution by assessing processes of adaptation. By examining the systematics, distribution, social behaviour, and ecological relationships over the array of non-human primate forms, we attempt to assess processes of adaptation.

Teaching Method: 3 hours of lectures per week. The 2 hour block permits zoo visits and films. A long paper topic is selected early in the year (it may be a library work or original research at the zoo.).

Bibliography:

Bramblet, C., Patterns of Primate Behaviour. Rowell, T., Social Behaviour of Monkeys. Jolly, A., Evolution of Primate Behaviour. Napier, P., Monkeys and Apes. Poirier, F., Primate Socialization. Quiatt, D., Primate Patterns. Kummer, H., Primate Societies.

Prerequisites: ANTA01 or BJOA03; ANTB14 or ANTB15

Course description: This course will deal with the phylogenetic and ontogenetic development of the human skeleton. The interrelationship of structure and function will be dealt with in an holistic manner. Paleopanthology and forensic aspects will be touched upon. Dentition will also be dealt with phylogenetically and ontogenetically. Population distributions of dental traits will be considered.

Instructors: L.Williams/A.Zeller Sessions: Summer Day
Winter Day

Teaching Method: This course will be oriented around practical procedures and laboratory sessions.

Objectives: To acquaint the students with the systemic and functional aspects of morphological structure.

Bibliography: Anderson, The Human Skeleton, T.B.A.

Evaluation:

Series of tests plus a final examination.

Prerequisite: ANTA01

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 aims, methodology and results of prehistoric Archaeology in both the New and Old Worlds.

Instructor: H.B.Schroeder Session: Winter day

Content: The course is divided into two sections of approximately equal length. The first takes up the development of Western science's interest in human antiquity, the traditional objectives and methodology of prehistoric archaeology, as well as the rapid expansion of both during the past decade of the "new archaeology". The topics covered are the data of prehistoric archaeology (its nature and limitations), its methods of recovery (survey and excavation), and techniques of its analysis. The second half of the course considers the evolution of culture as a series of stages of increasing technological and behavioural complexity: nomadic hunting and gathering, settled village agriculture, and urban civilization.

Teaching Method: 2 hours of lecture and 1 hour of lab/tutorial per week plus one or two field trips (Saturdays) during the fall term.

Evaluation:

two tests - 33%
one major essay/project - 33%
lab exercises - 33%

Prerequisites: ANTA01, ANTB26 or ANTB27.

Course description: The course is for advanced students in anthropology and archaeology; may interest other advanced students in geography, Quaternary studies, history, etc.

Instructors: M.Latta/M.R.Kleindienst Session: Winter Day

Content: The course treats archaeological analysis as a means of discovering past human behaviour patterns, as they are reflected in diverse dimensions of the two most common material categories of artifacts. Standard techniques are related to an understanding of the processes that produce useful objects.

Teaching Method: Lectures and laboratory work.

Evaluation:

Fall Term: 3 written reports on projects (2 minor, 1 major)
1 term test

Spring Term: 3 written reports on laboratory projects
1 final examination

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

Instructor: J.A.Davies

Session: Winter Day

Objectives: This course is designed for students interested in urban studies. It offers an opportunity to work with research data collected by the student, and to formulate and test hypotheses in the field. The aim is to produce an original piece of research that has practical value for future professional careers.

Content: The course consists of interrelated components: the development of urban life styles and their impact on different cultural groups and the historical relation of rural and urban settings, laboratory experiments designed to assist in preparing methodology for field research, and introduction to various media presentations, graphic arts, cartography, photography. The second term is devoted to group discussions and interpretations of individual research progress, and theoretical applications (use of models) for the urban material collected.

Teaching Method: Two hours per week of lectures and seminar discussion, plus a minimum of one hour per week for field research.

Evaluation: To be announced.

Prerequisite: ANTA01

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 contexts of simple as well as plural societies. Special interest derives from the study of Latin American institutions.

Teaching Method: Seminar

Evaluation: Major paper and test.

Prerequisites: ANTB15; ANTB14 and ANTB22 are recommended but not required.

Course description: This course is designed for students who intend to pursue higher studies in Anthropology. Three hours per week permit two hours of laboratory dissection of non-human primates. The weekly lectures discuss functional anatomy of locomotion, manipulation, mastication, reproduction and vision. Student presentations of library research are required. Films and zoo visits supplement dissection work. Limited enrolment: 20.

Instructor: F.D. Burton

Session: Winter Day

Evaluation:

Seminar reports: 2 @ 10% each

Mid-term exam: 35%

Final examination: 35%

Lab Practicals: 10%

Prerequisites: ANTB14; ANTB15. ANTB09 is recommended but not required

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

Instructor: T.B.A.

Session: Winter Day

Content: Consideration will be given to theories that emphasize the structural aspects of man's emergence. Demographic and ecological models will also be reviewed. However, it is expected that investigative emphasis will be placed on bio-behavioural models of hominid evolution. Some of the conceptual parameters that may be dealt with are: hominid neural evolution; possible hominid behavioural propensities by biology, such as, aggression, territoriality, and altruism; palaeoecology and the development of diagnostic hominid masticatory and locomotor complexes and; the relative roles of the various evolutionary forces of genetic drift, gene flow, non random mating and natural selection. The final section of the course will synthesize the above information in an effort to understand hominisation in a broad perspective and to make a rigorous analysis of the controversial works of R.Arderly, D.Morris, K.Lorenz, L.Tiger, 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.

ANTB37F

Prehistory of Mexico and Mesoamerica

Prerequisite: ANTA01

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 contribute to the emergence or disappearance of civilization.

Instructor: M. Latta Session: Winter Day

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.

ANTB38S

Prehistory of North America North of Mexico

Prerequisite: ANTA01

Course description: This course complements ANTB37 by presenting the prehistory of North America north of Mexico. The course will focus on the processes of diffusion and ecological adaptation in the study of evolution and divergence of North American Indians cultures from a late Palaeolithic hunting base.

Instructor: M. Latta Session: Summer Evening
Winter Day

Content: We will briefly consider the archaeological evidence for the arrival of Man in the New World, and then trace the cultural development of various regions in North America, including the Eastern Woodlands, the Plains, the Southwest, the Great Basin/Plateau, the Northwest Coast, the subarctic and the Arctic.

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

Evaluation:

- 1 two-hour lecture examination
- 1 research paper
- Participation in tutorial discussions.

ANTB39Y

Human Diversity

Prerequisite: ANTA01; ANTB15 is recommended

Course description: Special emphasis will be given to the role of culture in shaping man's 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

Objectives: The goals of the course are to survey the nature and scope of biological variation in contemporary human populations within the framework of NeoDarwinian evolutionary theory.

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 simple 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, dermatoglyphics, anthropometry and anthroposcopy.

Teaching Method: Lecture with discussion and labs.

Bibliography: Consult instructor.

Evaluation: The final grade will be assessed on the basis of two tests (50%), laboratory exercises (50%).

ANTB40Y

Anthropological Demography

Prerequisite: ANTA01; ANTB15 is recommended

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

Instructor: L. Sawchuk Session: Winter Day

Content: Specific topics include: definition of the human population using fundamental concepts in demography, ecology and bio-social anthropology, an introduction to genetic demography, population and societal strategies of survival and adaptation among small-scale societies, urban populations and protohistoric populations, and changing health and disease pressures affecting human populations today.

Teaching Method: Lectures and laboratory work.

Evaluation:

- 1 two-hour lecture examination
- 1 term paper
- 5 laboratory exercises.

ANTB42Y

Native Peoples of Canada

Prerequisite:

ANTA01

Course description: An analysis of traditional native Canadian cultures as they have developed through time, including a detailed treatment of the socio-cultural patterns in some communities, and a comparison of the place of native peoples in Canada with that of native peoples in certain other countries. Attention will be given to the dynamics of the interaction between Native and Euro-Canadian cultures from the time of contact to the present, incorporating: 1) approaches to the study of assimilation and acculturation; and 2) a consideration of varying policies of "administration" of native peoples.

Instructor: T.B.A.

Session: Winter Day

Teaching Method: Lecture and discussion

Evaluation: Essays and Examination.

ANTB43S

Quantitative Methods in Anthropology

Exclusions: (ECOA02), ECOB11; PSYB07

Prerequisites: ANTA01; ANTB15 and ANTB26 are recommended

Course description: A consideration of quantitative data and analytical goals, especially in archaeology and physical anthropology. Some elementary computer programming, and a review of program packages suitable for anthropological analyses will be included.

Instructor: L.Sawchuk

Session: Winter Day

Content: Specific topics include: descriptive statistics, elementary probability, hypothesis testing and decision making, parametric and non-parametric test statistics, regression and correlation analysis and an introduction to the analysis of variance. Laboratory sessions are designed to give the student practical statistical experience with a wide variety of anthropological problems.

Teaching Method: Lectures and laboratory work.

Evaluation:

5 laboratory exercises and an approved research project.

ANTB44Y

Physiological Anthropology

Prerequisites:

ANTA01 or BIOA03

Course description: This course is designed to give the student an understanding of physiology in its ecological setting i.e. physiological Anthropology. It emphasizes physiological principles and systems, ecological principles and systems and the interrelationship of these two areas. An anthropological approach to physiology involves considerable attention to evolutionary schemes and comparative physiology. The student will become aware of the study of populational physiology as well as the physiology of individuals. Discussion periods will supplement the formal presentation of material.

Instructor: S.Hornshaw

Session: Winter Day

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

Teaching Method: Lectures, seminars and discussion periods.

Evaluation:

- 1 two-hour Christmas examination
- 1 two-hour final examination
- 1 research project.

ANTB45Y

Ecology of Anthropological Populations

Prerequisite:

ANTA01

Course description: An examination of the social responses to the interface between biological systems and environmental systems in a number of human populations. Examples will be drawn from Hunting and Gathering, Fishing and Horticultural populations.

Instructor: S.Hornshaw

Session: Winter Day

Content: Specific topics include: ecology and the ecosystem, nutrition, mortality and morbidity patterns, disease, economic relationships, trade networks, political relations, patterns of religious or ritual behaviour, child-raising patterns.

Teaching Method: Lectures and discussion groups.

Evaluation:

- 1 two-hour Christmas examination
- 1 two-hour final examination
- 1 research project.

Prerequisite: At least "B" 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: T.B.A.

Session: Winter Day.

Content: All students will be asked to familiarize themselves with one or two non-Western systems of thought, and be prepared to discuss them in detail. Specific theoretical issues would include the rationality of such systems, their construction and maintenance, and their relation to social process.

Teaching Method: Seminar discussion.

Evaluation:

Seminar contribution
Major paper.

Prerequisite: Permission of instructor.

Instructors: Members of the Faculty

Session: Winter Day

Prerequisite: ANTB14 or ANTB15

Course description: Different problems dealing with human evolution are analyzed each year. This year the subject will be an investigation of the view (Fischer 1914, Dobzhansky 1962, Leakey 1962) that human evolution has been a process of self-domestication. Major areas to be considered are processes of domestication including morphological changes, genetics, ecology, nutrition and behaviour.

Instructor: F.D.Burton

Session: Winter Day

Objectives: To evaluate a question which has bearing on hominization through integration of data from biology and social sciences; to prepare research papers and oral presentations.

Teaching Method: Seminar format. 2 hours per week. Each student presents 4 short seminars.

Bibliography: To be announced and articles on reserve.

Evaluation:

3 presentations 15% each

3 short papers 15% each

Mid-term examination 10%

Prerequisite: ANTB26

Course description: Each year different problems pertaining to the archaeological investigation of the human past will be considered. This year, the subject will be a review of the prehistory of Sub-Saharan Africa. Consideration of the data will emphasize the historical developments in archaeological theory and methodology as well as the current interpretations of the evidence.

Instructor: M.R.Kleindienst

Session: Winter Day

Content: Lectures will summarize the Stone Age and Iron Age archaeological sequences, and the changing environmental contexts, of Sub-Saharan Africa, from West Africa to the Horn, and south to the Cape of Good Hope. Detailed, critical evaluations of specific sites and sequences will be presented in student reports.

Teaching Method: Lectures, seminar presentations, and discussions.

Evaluation: 3 seminar presentations (brief reports) by each student. 1 research paper, based on a seminar topic. Participation in discussions of seminar topics.

Suggested Readings: J.D.Clark 1970 The Prehistory of Africa; R.Oliver and B.M.Fagan, 1975 Africa in the Iron Age; D.F. McCall, 1970, Africa in Time Perspective.

ANTC11Y 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 roles 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.

Instructors: M.Latta/A.Zeller Session: Winter Evening

Content: We will observe female roles among non-human primates and prehistoric hominid populations, as well as a number of modern human cultures. This information, together with physical and psychological data on "femaleness" will be used to consider a number of concepts such as sex role determinism, dominance and status.

Teaching Method: Lectures, discussions, formal presentation of research in class.

Evaluation:

2 examinations
2 research papers
1 presentation.

ANTC12S Research on the Social Behaviour of Non-Human Primates

Prerequisite: ANTB22 or permission of instructor

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

Instructor: F.D.Burton Session: Summer Day

Evaluation: Variable, but minimally includes presentation of data collected.

ANTC13F and C14S Advanced Research in Anthropology

Prerequisite: Permission of instructor.

Instructors: Members of the Faculty Session: Winter Day

Astronomy

Astronomy is at the same time one of the oldest and most dynamic areas of Science. It is basically man's attempt to gain an understanding of his place in the sidereal universe, ranging from the planetary system in which he lives to the most distance galaxies and quasars which can be seen only as they were before men walked this earth. Within the past ten years have come astronomical observations which suggest the explosive "Big Bang" origin of the entire universe and the presence of hitherto unsuspected complex molecules in the interstellar medium of our galaxy. The implications of these and other astronomical discoveries for man and his world are profound.

The full range of astronomical topics is covered at an introductory level in ASTA02 (for science students) and ASTA03 (for non-science students) while selected astrophysical topics are dealt with at a more advanced level in ASTB01 and ASTC01. JPAC08 introduces Einstein's special theory of relativity while JPAC10 presents the general theory and some of its applications in astrophysics and cosmology.

ASTA02Y Astronomy: Exploring the Universe

Exclusion: ASTA03

Prerequisites: Grade 13 Physics, Grade 13 Functions and Relations.

Course Description: In this modern look at the universe an appreciation of the techniques and implications of astronomical observations is developed through an application of familiar physical concepts to the astronomical setting. The material discussed covers observations in the entire electromagnetic spectrum, from X-rays to the radio band. It ranges from the relatively nearby solar system to the distant reaches of quasars; from the wasteland of interstellar space to the nuclear inferno deep in a stellar interior; from the quiet life of a star like the sun to its often cataclysmic demise; from the tranquility of an interstellar dust cloud to the frenzied environs of a pulsar, an X-ray source or a black hole. Completion of this course should better equip one to assess the importance of forthcoming developments to the advancement of knowledge of the universe and to contemplate such questions as life on other worlds. Instruction in the use of the telescopes, cameras and darkroom equipment is provided for all interested students, whether their ultimate purpose is carrying out a term project or merely extracurricular star-gazing.

Instructor: P.G. Martin 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 McLaughlin Planetarium are also arranged.

Evaluation: Term work (problem assignments, laboratory exercises, a term project)-40%; two 50-minute term tests-26%; final examination-34%.

ASTA03Y

Astronomy, Its Early Development and Current Significance
ASTA02

Exclusion:

Course description: A course, designated primarily for students with a non-science background, which contains a description of the extraterrestrial universe and of the past and present methods used to explore it. In addition to a survey of basic Astronomy, this course also emphasizes the history of man's evolving view of the universe. At the beginning of the course the early ideas on the cosmos are discussed, from the Greek ideas up to the time of the Renaissance and the Copernican revolution. Some discussion of the impact of our knowledge of the universe on philosophy and culture is included. This approach to Astronomy, its history and its present impact, are combined with a description of all aspects of Astronomy including the latest discoveries of radio and satellite-based Astronomy. A minimum of mathematics will be used, and tutorial assignments as well as an essay are required for term work.

Instructor: P. Kronberg Session: Winter day

Content: Astronomy A03Y will contain a description of all aspects of the extra-terrestrial universe and the methods used, past and present, to explore it. The first portion of the course will emphasize the historical context in which our knowledge of the universe has developed, and the latter part of the course deals with present and future investigations of the universe, some of its possible economic and even "philosophical" implications. At the end of the course time will be devoted to exploring the various interrelations between current technology and both space and ground based experiments.

Teaching Method: 2 lectures, 1 tutorial per week, and an essay.
Evaluation: 50% exam & term tests; 50% essay & tutorial exercises

ASTB01Y Topics in Astrophysics: Origin and Evolution

Prerequisites: PHYA01 or PHYA02; MATA26 or MATA55

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 - the origin and evolution of the universe as a whole, of the galaxies, of the stars, and of the solar system, and a study of the conditions for and possibilities of other life in our galaxy and the significance of the interstellar medium.

Instructor: R. C. Roeder Session: Winter Day

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

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

Evaluation: Biweekly assignments 35% First term test 15%
Second term paper 15% Final exam 35%

Prerequisites: ASTA02Y or ASTB01; PHYB01; permission of instructor

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

Instructors: P. Kronberg, P. Martin, R. Roeder Session: Winter Day

Content & Teaching Method: ASTC01H is an 'all year' half-course in which the student will do research on some topic of current interest in astrophysics & write a report ("mini-thesis") on his work. The student is expected to gain an appreciation of the current state of knowledge about a particular topic of astrophysical interest and to become familiar with the basic methods of research. The topic will be selected by one of the instructors in consultation with the student. Formal lectures are replaced by regular consultation between the student and instructor. It is expected that at least 80 hours of work will be done during the year, following which the mini-thesis will be submitted to the instructor. For more detailed information see Dr. Kronberg, Dr. Martin or Dr. Roeder

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 (see Major Calendar).

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 Science Division.

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

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

BIOA03Y Introductory Biology

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

BIOB02Y	Basic Microbiology
BIOB05Y	Genetics
BIOB06Y	Plant Physiology
BIOB08Y	Invertebrate Zoology
BIOB12Y	Fundamentals of Ecology
BIOB13Y	Plant Structure and Development
BIOB17Y	General and Comparative Physiology
BIOB22Y	Comparative Vertebrate Morphogenesis
BIOB23Y	Developmental Biology
BIOB24Y	Plant Kingdom
BIOB27Y	Comparative Vertebrate Histology
BIOB37Y	Plant Taxonomy - Principles and Methods
BIOB39Y	Biogeography
BIOB43Y	General Vertebrate Biology

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

BIOB11Y	Animal Populations and Evolution
BIOB15Y	Aquatic Systems
BIOB19S	Biology of Macromolecules
BIOB20F	Cell Ultrastructure
BIOB26F	Field Course in Aquatic Biology
BIOB30F	Phytoplankton - Methods and Techniques
BIOB31F	Insect Structure & Function

third year of full-time study (or equivalent) cont'd

BIOB32Y Quaternary Plant Ecology
BIOB33F Physiological Plant Ecology
JBCB35Y Introductory Biochemistry
JBCB36H Laboratory in Biochemistry
BIOB41Y Physiology of Microorganisms
•BIOB42H Physiology and Biochemistry of Plant Growth and Development
BIOB46S Environmental Biology of Fish Populations
BIOB47Y Plant Ecology

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

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

NSCA02Y Introduction to Natural Science: The Biological Sciences

NSCB02Y Quaternary Environments and Man

BIOA03Y

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, evolution. Laboratory and discussion periods will supplement the lecture material.

Instructors: L. Marin/M. Filosa Session: Winter Day

Content: Specific topics include: the chemical constituents of cells, cell structure and function, inheritance, the structure and function of genes, early developmental processes, mechanisms of development, the genetic control of development, enzymes and their functions, cellular metabolism, photosynthesis, molecular basis of muscle contraction, basic ecology, the nerve impulse, function of the nervous system, evolution.

Teaching Method: Lectures and laboratory work.

Evaluation:

- 3 one-hour lecture examinations.
- 2 one-hour examinations based on laboratory material.
- 1 Practical laboratory test.
- 1 Final examination.

BIOB02Y

Basic Microbiology

Prerequisite: BIOA03

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

Instructor: J. Silver Session: Winter Day

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: Two hours of lecture and three hours of laboratory each week.

Evaluation: Lecture 60%
Laboratory 40%

BIOB05Y Genetics

Prerequisite: BIOA03

Course description: A lecture and laboratory course in cytogenetics and the genetics of bacteria, fungi and Drosophila.

Instructor: M.F.Filosa Session: Winter, Day

Content: Mendel's principles, linkage, mapping, assignment of genes to chromosomes, structure of gene, genetic control of protein synthesis, regulation of gene activity, chromosome structure, mutation, cytoplasmic inheritance.

Teaching Method: Lectures, lab work, problems, discussion.

Evaluation: 4 hours of exams based on lecture and lab work, lab reports - approx. 70%, final exam - approx. 30%.

BIOB06Y Plant Physiology

Prerequisite: BIOA03

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

Instructor: G.F.Israelstam Session: Winter Day

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 and respiration. Growth and development of plants. The objective of this course is to introduce the student to the science of plant physiology, and to provide a training in laboratory techniques and the presentation of scientific data in this field.

Teaching Method: Lectures and laboratory work.

Evaluation:

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

BIOB08Y Invertebrate Zoology

Exclusion: (BIOB38);(BIOB44)
Prerequisite: BIOA03

Course description: A lecture and laboratory course dealing with the biology of the invertebrates.

Instructor: TBA Session: Winter Day

BIOB11Y Animal Populations and Evolution

Corequisite: BIOB05 Prerequisite: BIOA03

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: I.Campbell Session: Winter Day

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

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

BIOB12Y Fundamentals of Ecology

Prerequisite: BIOA03

Course description: A lecture and laboratory course, with some field work, on the relationship between organisms and their environment, with emphasis on terrestrial ecosystems.

Instructor: T.B.A.

Session: Winter Day

Method of Teaching: Lectures and laboratories.

BIOB13Y Plant Structure and Development

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

Instructor: R. Dengler

Session: Winter Day

Content: Specific topics include: embryo development, seedling vascularization, plant cell wall variation, protoplasmic constituents of plant cells; cell types of the epidermis, parenchyma, collenchyma, xylem and phloem tissues; the vascular cambium and cork cambium and their derivatives; initiation and development of roots, stems, and leaves.

Teaching Methods: Lecture and laboratory work.

Bibliography: Esau, K. Anatomy of Seed Plants. John Wiley, New York.

Evaluation:

3 Laboratory reports (6%) 2 laboratory examinations (24%)
2 Lecture examinations (25%) 1 Microtechnique project (15%)
1 Final (30%)

BIOB15Y Aquatic Systems

Corequisite: BIOB12 is recommended

Prerequisite: BIOA03

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. Sparling

Session: Winter Day

Content: Geological background: origin of oceans and lakes. Energy balance: light and heat. Properties of water. Circulation and wave motion. Material cycling. Chemistry of fresh and salt waters. Nutrient cycling. Primary production. Phytoplankton population dynamics: seasonal succession. Evolution of lakes. Natural and cultural (man-made) eutrophication. Secondary production. Fisheries and applied topics.

Teaching Method: Two hours of lectures per week. Informal tutorials seminars by visiting scientists and optional field/lab work amount to about 2 hours per week. In addition, students are expected to write 2-4 major essays on assigned topics.

Bibliography: Limnology-Wetzel, R.G.; Physiological limnology - Golterman, H.L.

Evaluation: 4 tests 60%; Essays and/or reports of field and laboratory work 40%.

Objectives: To become familiar with physical, chemical and biological characteristics of aquatic systems.

BIOB17Y General and Comparative Physiology

Prerequisite: BIOA03

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

Instructor: C.K.Govind

Session: Winter Day

Content: Topics include: 1st term; nutrition, gas exchange, gas transport, heart and circulation, excretion, osmoregulation
2nd term; nerves and bioelectricity, synapses and integration, muscle and neuromuscular systems, sense receptors and C.N.S., hormones.

Teaching Method: Lectures and laboratory work.

Evaluation:

Term tests
Laboratory reports
Final examinations.

BIOB19S Biology of Macromolecules

Corequisite: BIOB05 is recommended

Prerequisite: BIOA03

Course description: The basic concepts of the molecular biology of the gene - key experimental observations. Main topics will be mechanisms of gene replication and regulation of gene activity in higher and lower organisms. Students will receive laboratory experience in the use of a range of molecular biology techniques.

Instructor: I. Brown

Session: Winter Day

Content: This course is divided in 2 sections. The first deals with the structure and replication of DNA. The second concentrates on RNA and protein synthesis. Laboratory exercises include
1) Purification of DNA and RNA 2) Isolation of DNA polymerase
3) DNA reassociation kinetics 4) Purification and gel electrophoresis of chromosomal proteins. The course is suitable for third and fourth year students.

Teaching method: Lectures and laboratory work.

Evaluation: 2 lecture tests, 2 lab tests, lab reports.

BIOB20F Cell Ultrastructure

Prerequisites: (BIOB16) or BIOB13 or BIOB24 or BIOB27

Course description: Current concepts in animal and plant cell ultrastructure. Lectures deal with the structure, development and function of fine structural components of cells. Laboratory work focuses on the interpretation of these components as they appear in electron micrographs.

Instructors: R.Dengler/J.Youson Session: Winter Day

Content: Topics include, 1) methods used in the biological application of electron microscopy, 2) cell membranes and cell surfaces, and 3) cell organelles, e.g., endoplasmic reticulum, mitochondria, plastids, etc.

Teaching Method: Lectures and laboratories.

Evaluation:

2 laboratory examinations
1 term paper
1 lecture examination

BIOB22Y

Comparative Vertebrate Morphogenesis

Prerequisite:

BIOA03

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

Instructor: W.D.Peek

Session: Winter Day

Content: Beginning with the primitive vertebrate ancestors, this course considers the comparative anatomy of the vertebrates from both evolutionary and embryological viewpoints. Evolutionary trends, which have led to the anatomical and physiological diversity of the modern vertebrates, are examined. Practical work includes the dissection of representative vertebrates.

Teaching Method: Lectures and laboratories

Evaluation:
2 3-hour lecture examinations (25% each)
2 mid-term tests based on laboratory material (5% each)
2 final laboratory examinations (15% each)
1 term paper (10%).

BIOB23Y

Developmental Biology

Prerequisite:

BIOA03Y

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

Instructors: I.Brown and R.Dengler Session: Winter Day

Content: In the fall term and the first half of the spring term I. Brown deals with the principles of animal development. The following model systems are employed - erythropoiesis, lens development, spermatogenesis, myogenesis, frog metamorphosis and carcinogenesis. In the last half of the second term R. Dengler discusses aspects of plant development. Some of the topics dealt with in this portion of the course are - comparison of developmental mechanisms in plants and animals, morphogenesis of fertilized eggs in primitive and advanced plants, and the role of cell division and cell enlargement in the development of form.

Teaching Method: Lectures and laboratory work.

Evaluation: Lecture and laboratory examinations.

BI0B26F

Field Course in Aquatic Biology

Prerequisites: BIOA03; BIOB15; permission of instructors
BIOB12 is recommended

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: 20

Instructor: C. Sparling Session: Winter

Objectives: To gain practical, research level experience in a whole ecosystem study of a lake.

Content: During a 14-day period (end of August-beginning of Sept.) students will study a lake in the vicinity of Toronto. An intensive sampling programme will include measurements of: physical and chemical parameters, nutrients, primary production, phytoplankton and macrophytes, zooplankton.

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

Bibliography: Golterman, H.L. Methods for chemical analysis of fresh waters. IBP Handbook No. 8. Blackwell Sci. Publ.; Vollenweider, R.A. (ed.) 1969 Primary production in aquatic environments. IBP handbook No. 12. Blackwell Sci. Publ.

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

BI0B27Y

Comparative Vertebrate Histology

Corequisites: BIOB22 and BIOB20 are highly recommended

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 microscope. Differences and similarities of body systems will be discussed in relation to development, evolution and function. Each student will be required to do an individual microtechnique project.

Instructor: J. Youson 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 (epithelium, connective tissue, muscle, nervous tissue, etc.). Second term: the relationship of the above tissues in the organ systems (sense, digestive, respiratory, excretory, reproductive, and endocrine systems).

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

BI0B30F

Phytoplankton - Methods and Techniques

Prerequisite: BIOB15

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. Sparling Session: Winter Day

Content: Principles of phytoplankton taxonomy. Isolation of unialgal and axenic 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 5-hour session 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 & graduate level course, for students with background in physiology and ecology of algae. Dr. M. Munawar, research scientist at Canada Centre for Inland Waters, Burlington, participates in this course.

BI0B31F

Insect Structure and Function

Exclusion: (BIOC07)

Prerequisites: BIOA03

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. Topics include: neuromuscular analysis of locomotion, respiration, diapause and host plant relationships.

Instructors: I. Campbell/C.K. Govind Session: Winter Day

Content: Topics include: neuromuscular analysis and central control of insect flight; flight orientation mechanisms; escape response in cockroaches; hearing mechanism in nocturnal moths; insect respiration; diapause; diet and growth.

Teaching Method: Lectures, seminars and laboratory work.

Evaluation:

Seminar
Laboratory reports
Final examination.

BIOB39B Biogeography

Prerequisite: BIOA03 or NSCA02

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

Instructor: G. Voss Session: Summer Day

BIOB42H Physiology and Biochemistry of Plant Growth and Development

Corequisite: JBCB35 recommended

Prerequisite: BIOB06

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

Instructor: G.F. Israelstam Session: Winter Day

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

Teaching Method: Lectures and seminars

Evaluation: Essays and seminars

BIOB41Y Physiology of Microorganisms

Exclusion: (BIOB03)

Prerequisite: BIOB02

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 biosynthetic pathways and metabolic versatility. The ecological significance of microorganisms will be discussed with special reference to microbial interactions, symbiotic relationships and geochemical activities.

Instructors: C. Sparling/J. Silver Session: Winter Day

Content: Principles of microbial classification. Kinetics of growth in culture (batch cultures, chemostats and turbidistats and in nature. Effects of light, temperature and nutrients on growth and on 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.

Teaching Method: One (2 hr.) lecture per week; 3 hours of lab work per week, involving about 12 research-style experiments.

Bibliography: The course does not follow a single text, but the following are most useful: Algal physiology and biochemistry - W.D.P. Stewart (ed.); Microbial ecology - T.D. Brock

Evaluation: Laboratory reports - 40%. Tests 60%.

BIOB43Y General Vertebrate Biology

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

Corequisite: BIOB22

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

Instructor: A. Weatherley Session: Winter Day

BIOB46S Environmental Biology of Fish Populations

Prerequisite: BIOB43

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

Instructor: A. Weatherley

Session: Winter Day

BIOB47Y Plant Ecology

Exclusion: (BIOB34S)

Prerequisite: BIOB12

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 majoring in science with primary interests in environmental fields. It will have relevance to such applied fields as management, impact assessment, forestry and resource ecology - in addition to its basic orientation. The primary emphasis is on plant community structure, distribution, environmental relations, dynamics and energetics. Some attention will be given to historical factors.

Instructor: J.C. Ritchie

Session: Winter Day

Content: The nature of the plant community and its relation to ecosystems; a conspectus (brief) of plant community distributions and their general relations to the physical environment; the structure and analysis of plant communities, illustrated particularly by fieldwork in the local area to apply methods of description and analysis; quantitative methods of analysis and classification of plant communities; the dynamics of plant communities; historical perspectives; energy flow in the plant community; nutrient and water cycles; applied aspects of plant communities - disturbance factors in technological development. Autecology - the nature of adaptations; ecotypic differentiation, ecological factors in species-level evolution.

Teaching Method: Lectures; fieldwork; laboratories

Evaluation: 1 3-hour Christmas exam-25%; 1 laboratory and fieldwork report-25%; 1 final exam-50%.

BIOC01Y

Supervised Study in Biology

Exclusions:

(BIOC01F); (BIOC02S)

Prerequisites:

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

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

Instructors: Members of Faculty

Session: Winter

BIOC02Y

Directed Research in Biology

Exclusions:

(BIOC01F); BIOC02S)

Prerequisites:

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

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

Instructors: Members of Faculty

Session: Winter

Prerequisite: At least one of (BIOB07), BIOB13, (BIOB16), BIOB22, BIOB23, BIOB27

Course description: A seminar series on current topics in Developmental Biology designed for advanced biology students. The instructors deliver a series of introductory lectures on selected current topics in developmental biology. From these general topics students choose specific areas for further individual study.

Instructors: M.Filosa/J.Youson/T.B.A. Session: Winter Day

Evaluation: students oral presentation(s)
participation in seminar discussion
written paper(s)
final exam.

Chemistry

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool through which to develop the resources of contemporary society. The Chemistry handbook for 1977, 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 CHMA01 or CHMA02, either of which must be taken by those who wish to take further Chemistry courses or who require Chemistry for another Science. However, we strongly recommend that students possibly planning to take a Chemistry specialist degree enroll in CHMA01 and CHMB06 (Organic) in their second year.

Completion of CHMA01 or CHMA02 permits students to take any of the B-level courses in Chemistry. These are divided according to the following subdisciplines: Inorganic Chemistry (CHMB01), Analytical Chemistry (CHMB02), Organic Chemistry (CHMB05 or CHMB06) & Physical Chemistry (CHMB03). Thereafter, one can proceed to the following advanced-level courses: CHMC01 (Inorganic), CHMC02 (Physical), CHMC03 (Organic) and CHMC06 (Biochemistry).

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

Scarborough Courses	St. George Series
CHMA01; CHMB01; CHMB02; CHMC01	430
CHMA01; CHMB03; CHMC02	420
CHMA01; CHMB06; CHMC03 (providing B standing or permission of the instructor is obtained)	440(except 447)

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

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

CHMA01Y Principles of Chemistry

Exclusion: CHMA02
Prerequisites: Grade 13 Chemistry; Grade 13 Functions and Relations
Corequisites: MATA26 or MATA55; PHYA01 or PHYA02

Course description: Treats essentially the same subject matter as CHMA02 but with greater emphasis upon physical concepts. For those students who plan to specialize in Chemistry or in another Science discipline.

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

Content: This course offers an introduction to the major areas of chemistry, with emphasis upon unifying laws, theories and concepts. The presentation will be at a fundamental level and will make a much more rigorous use of mathematics than CHMA02Y. Specific topics include: nuclear chemistry, quantum mechanics and atomic structure, chemical bonding and the shapes of molecules, the states of matter, kinetic theory of gases, crystal structure, thermodynamics, reaction kinetics and chemical equilibrium. A brief introduction to organic and inorganic chemistry will also be made.

Teaching Method: Two lectures per week, one four-hour laboratory every other week. A tutor will be available for consultation ten hours per week in the Chemistry Study Room.

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

CHMA02Y General Chemistry

Exclusion: CHMA01
Prerequisites: Grade 13 Chemistry (or Grade 12 Chemistry and permission of instructor); Grade 13 Functions and Relations
Corequisites: MATA22 or MATA26 or MATA55

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

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

Content: Starting with the atom, 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 brief discussion of organic compounds, particularly those of biological importance, will be presented, with emphasis on their three dimensional structure and types of isomerism.

Teaching Method: Two lectures per week, one four-hour laboratory every other week. A tutor will be available for consultation ten hours per week in the Chemistry Study Room.

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

CHMB01Y Inorganic Chemistry I

Prerequisites: CHMA01 or CHMA02

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

Instructor(s): A Member of the Chemistry Faculty Session: Winter Day

Content: The further development of the ideas of structure and bonding introduced in CHMA01Y and CHMA02Y: The nature of bonding in covalent, ionic and coordination compounds. Thermodynamics 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: Lectures possibly supplemented by tutorials or supervised study periods.

Evaluation: Tests, problem sets, and exams.

CHMB02Y Analytical Chemistry

Prerequisites: CHMA01Y or CHMA02Y

Other recommended courses: CHMB01Y

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

Instructor(s): T.B.A. 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.

Content: The course consists of three main divisions: qualitative inorganic analysis by wet chemical methods, classical quantitative analysis and modern instrumental quantitative analysis. The classical methods employed include gravimetric and volumetric analyses. The instrumental section will introduce the techniques of various spectrophotometric and electrochemical methods of analysis as well as chromatographic and other separatory techniques.

Teaching Method: One hour of lecture and six hours of laboratory.

Bibliography: Text for this course is D.A. Skoog and D.M. West "Fundamentals of Analytical Chemistry", Third Edition, Holt, Rinehart and Winston, 1976.

Evaluation: The overall grade is a composite of laboratory performance, a final examination, and term tests and problems.

CHMB03Y Physical Chemistry I

Exclusion: PHYB09

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

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

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

Instructor(s): G.A. Kenney-Wallace Session: Winter Day

Content: The kinetic theory of gases provides the major emphasis for the first quarter. This is followed by an introduction to the quantum mechanical principles which govern the internal structure of atoms and molecules. The first half ends with a treatment of chemical kinetics. In the second half of the course we resort to a thermodynamic description of chemical behaviour. The basic laws of thermodynamics and their applications to a wide variety of contemporary problems including spontaneous processes, chemical equilibria, phase equilibria, etc. are emphasized.

Teaching method: 2 lectures a week, tutorial

Evaluation: (Tentatively) problem sets (25%), one hour test (30%)
final exam (45%)

CHMB05Y Organic Chemistry

Exclusion: CHMB06

Prerequisite: CHMA01 or CHMA02

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

Instructor(s) and Text: To be announced, consult chemistry staff

Session: Winter Day

Content: The fundamentals of organic chemistry, including the chemistry of molecules of biological importance will be covered. This course is recommended for those who plan to take only one course in organic chemistry, as the basics of the entire field will be surveyed. Those interested in a more thorough approach, or who plan to take a further course in organic chemistry, should enrol in CHMB06Y. CHMB05Y is particularly suited to those fulfilling an organic chemistry requirement in another programme.

Teaching Method: Two lectures per week and a four-hour laboratory every other week

Evaluation: Lecture tests, mid-term and final examinations, plus a laboratory mark.

CHMB06Y Organic Chemistry I

Exclusion: CHMB05

Prerequisites: CHMA01 or A02

Course description: This course, together with CHMC03Y, (Organic Chemistry II) will provide a rigorous introduction to organic chemistry as part of the Chemistry Major Programme. Students not intending to take CHMC03Y should not register for this course.

Instructor(s): T.T. Tidwell (Lecture), J. Potter (Laboratory).

Session: Winter Day

Content: The fundamentals of aliphatic and aromatic chemistry and introduction to the chemistry of some molecules of biological importance. The subject will be considered at an advanced level, and the course is recommended for Chemistry Majors, those majoring in other Physical Science disciplines, and Life Science Majors with a strong interest in Biochemistry. The text will be "Introductory Organic Chemistry" by Streitwieser and Heathcock, published by Macmillan.

Teaching Method: Two lectures per week and a four-hour laboratory every other week.

Evaluation: One-hour lecture examinations, a mid-term examination, a final examination, plus a laboratory mark.

CHMC01Y Inorganic Chemistry II

Prerequisites: CHMB01, CHMB02

Course description: A study of transition metal Chemistry including oxidation state diagrams; atomic structure and energy levels; crystal field theory; molecular orbital theory; a thermochemical and structural survey of divalent ions, trivalent and higher oxidation states, and low oxidation states, (i.e. carbonyls, nitrosyls, etc.).

Instructor: A. Walker Session: Winter Day

Objectives: To use and modify theoretical concepts obtained in B01Y to understand the chemistry of the transition elements which are intermediate between alkali metals and non-metals.

Content: Oxidation state diagrams. Modification of the "Ionic Model Approach" applicable to pretransition metals so as to accommodate the lending of transition metals. The structure and thermodynamic stability of transition metal complexes is examined for a wide range of oxidation states.

Teaching Method: Two hours of lecture & seven hours of laboratory per week.

Bibliography: "Inorganic Chemistry" by Phillips and Williams, Vol. II (Oxford) is required and "Advanced Inorganic Chemistry" by Cotton and Wilkinson, 3rd Ed., (Interscience, Wiley) is recommended.

Evaluation: Two term tests (25%), Laboratory (25%) and a final examination (50%)

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

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

Instructor(s): P. Brumer

Session: Lectures: Winter Day
Laboratory: Spring Term,
one day

Content: The first half of the course emphasizes quantum chemistry and the various techniques for the determination of energy levels in isolated atoms and molecules. The electronic and molecular structure of molecules are then examined through atomic and molecular spectroscopy. Intermolecular forces and modes of energy transfer between molecules ultimately leads into a study of classical and quantum statistical mechanics through which we interpret the behaviour of macroscopic systems. Finally, the basis of modern reaction dynamics will be introduced.

Teaching Method: Lectures, tutorial, ~ laboratory

Evaluation: 2 three-hour examinations; term paper; problem sets, 75% (Tentatively) Laboratory marks contribute the remaining 25%.

Exclusion:
Prerequisite:

CHM347 (St. George)
CHMB05 or CHMB06

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

Instructor: R. McClelland

Session: Winter Day

Content: This course provides further experience in organic chemistry to those who have completed one course in the subject. Topics will include an in-depth treatment of organic synthesis, stereochemistry, conformational analysis, reaction mechanisms, acids and bases, and free radicals; and an introduction to polymers, photochemistry, heterocycles, terpenes, and some biologically important molecules. The laboratory experiments are designed to complement the topics covered in lecture, with an emphasis on more advanced techniques.

Teaching Method: Two lectures per week, one tutorial, plus one laboratory every week.

Evaluation: One-hour lecture tests, a mid-term examination, final examination, plus a laboratory mark.

Prerequisite: Permission of 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 260 hours of work are expected.

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

Exclusion: CHMC47F/S/H

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

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 conference 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 the oral presentation.

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

Prerequisite: Permission of instructor

Course description: Participation in a chemical research project under the direction of a member of the Chemistry staff, requiring approximately 260 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 Specialist Programmes.

Objectives: To develop familiarity with some of the methods of modern Chemical Research.

Content: The particular research problem to be pursued will be arrived at from 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 the oral presentation.

Prerequisite: Permission of instructor

Course description: Similar to CHMC45 but representing 130 hours of work.

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

Exclusion: CHMC45Y

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

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 conference 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 the oral presentation.

CHMC48F/S/H Special Topics in Inorganic Chemistry

Prerequisite: CHMC01

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

Instructor(s): Members of the Chemistry Faculty. Sessions: to be arranged

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.

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.

Bibliography: The current chemical literature.

Additional Comments: This course will be offered only in years of sufficient student demand and instructor availability.

Prerequisites: CHMC03

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. Kresge/R. McClelland/T.T. Tidwell

Session: Winter Day. To be offered only if there is sufficient student demand and instructor available, in either the Fall or Spring.

Content: This course will likely deal with organic reaction mechanisms in 1977-1978, and CHMC45S (St. George) will probably be an excluded course.

Teaching Method: Lectures only

Evaluation: A final examination plus other assignments.

CHMC50F/S/H

Special Topics in Physical Chemistry

Prerequisites: CHMC02

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

Instructor(s): P. Brumer/G.A. Kenney-Wallace Session: Winter Day

Content: The content of the course varies from year to year and in 1977-1978 will focus on topics in quantum chemistry or theories of elementary chemical reactions.

Teaching Method: Lectures

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

Classical Studies

Discipline Representative: M.E. Irwin

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

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

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

Students interested in Classics should also refer to:

DRAB05	Art and Nature of Comedy
FARB21	Archaic Greek Sculpture
FARB30	Crete and the Mycenaean World
FARB40	Monuments and Topography of Republican Rome
FARB41	Monuments and Topography of Imperial Rome
HUMB07	The Ulysses Factor
HUMB08	Orpheus: The Quest of Beauty
HUMB21	Love and Friendship
HUMB22	The Age of Pericles
HUMB23	The Age of Augustus
HUMB24	The Age of Nero
HUMB25	The Age of Homer
HUMB41	Women in Ancient Greece
HUMC13	Seminar in Literary Theory and Practice
PHLB40	Plato and his Predecessors I
PHLB41	Plato and his Predecessors II
PHLB42	Aristotle and Later Greek Philosophy I
PHLB43	Aristotle and Later Greek Philosophy II

CLAB01Y

GREEK AND ROMAN EPIC

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

Instructor: I.R. McDonald Session: Winter Evening

Objectives: To provide a useful introduction to classical literature, and to help develop an appreciation of the literary imagination and its reflection in language and style.

Content: Close reading (in English translation), study, and criticism of the major classical epics, beginning with the primitive oral tradition of Archaic Greece and concluding with the imitative preciosity of Flavian Rome. 'Mythological', 'historical', and 'didactic' epic. The relationship between society (and its myths and history) and its literary culture. Form, function, tradition, and originality in the epic genre. In addition to the works named above, attention will be given also to at least Apollonius, *Voyage of Argo*, and Ovid, *Metamorphoses*.

Method: Mainly lectures (with an occasional guest), with opportunity for discussion.

Evaluation: Two class tests (one in the Christmas exam period), one major essay due in the spring, one shorter written assignment.

Note: Students who may wish to begin their reading in advance of the start of classes should consult the instructor about the editions and translations to be used.

CLAB02Y

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 Warden Session: Winter Day

Content: How some of the best known myths have been shaped and interpreted by the dramatists of Greece and Rome and by others closer to our own time. We'll look briefly at the way tragedy started, its conventions and staging, the historical and social background to the main periods of composition. Most of the time will go on a close examination of three groups of plays - those concerning Agamemnon and his family (by Aeschylus, Sophocles, Euripides, Seneca, Sartre); Oedipus and his family (Sophocles, Seneca, Anouilh); Hippolytus and Phaedra (Euripides, Seneca, Racine). Classes (two a week) will consist of an oral presentation (by instructor and, class-size permitting, students) and discussion, varied from time to time by playreadings. The details of evaluation will be worked out with the class. Roughly speaking, 4 pieces of work - a major essay, plus tests, in class essay, short paper or seminar presentations. Perhaps some sort of production. If you want something to read in the summer, try: P.D. Arnott, *An Introduction to the Greek Theatre*, Aeschylus I, tr. Lattimore, University of Chicago (Phoenix Paperback).

Course description: An exploration of the nature and range of religious experience. Among the topics discussed will be the nature and function of mythology and its relation to religion, Homer and the Olympian gods, myth and philosophy, mystery religions and popular cults, paganism and Christianity.

Instructor: John Warden Session: Summer Evening

Objectives: To understand the way in which the Greeks and Romans looked at the gods, the world and themselves, not as a study of an alien culture, but of a very important stratum of our own.

Method: The emphasis is not so much on a description of religious phenomena, rituals, buildings, etc., from the viewpoint of an outside observer. It is an attempt to approach religion from the inside, to try to understand the experience of a Greek of the 5th Century B.C. This is a tall order, and requires a degree of sympathy and commitment (I am not asking for a conversion) from student and instructor. Our only mode of access to the feelings and beliefs of that period is the literature that remains. So the discussion of religion will be based in and emerge from major literary works.

Classes will be a combination of oral presentations (by instructor or student), and discussions. A willingness to get involved in discussion is important to the success of the course.

Basic Bibliography: W.K.C. Guthrie, The Greeks and their Gods.

Evaluation: By essays, tests, seminar presentation (4 pieces of work) - details to be discussed with students.

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

Instructor: M.E. Irwin Session: Winter Day

Content: Some of the topics discussed will be a history of the relationship between the church and the state, persecution, other rival religions, the development of Christian art and architecture, the influence of Greek philosophy and the changes taking place between the beginnings of the church and the church in the fourth century.

Evaluation: One essay and one term test.

Texts: Records of Christianity D. Ayerst and A.S.T. Fisher (Basil Blackwell 1971).

Early Christian Writings tr. M. Staniforth (Penguin 1968) a copy of the New Testament in a modern translation - Revised Standard, New English, or New International are suggested.

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

Instructor: A. Boddington. Session: Winter Day

Content: The Bronze Age Civilization of Greek and Minoan Crete: The City State, including Athenian Democracy and the strange society of Sparta: - some cultural history - Greeks versus non-Greek, Iran and Macedonia. Introduction to Macedonia.

Teaching Method: 3 lectures a week. Students are encouraged to ask questions in class, and to seek personal interviews.

Evaluation:

- 1 Final Exam
- 1 Major and 2 Minor papers.
- 1 Class Test.

Course description: A study of the emergence and evolution of the Hellenistic Monarchies after the death of Alexander, the development of Rome as a "World Power", and the interaction of the Greek and Roman Worlds.

Instructor: J. Corbett Session: Winter Evening

Content & Objectives: Major topics include: Alexander the Great and his empire; the great kingdoms of his successors: the development of bureaucratic state with its characteristic social, political and economic forms; the early development of Rome and its emergence as a world power. The course objective is to introduce the student to the study of a crucial but obscure period, which in many ways saw the birth of the western world; a special emphasis will be placed on social history; students will choose a topic area each term for concentrated research, presenting their conclusions orally and in a major essay. Source materials will be read in translation.

Teaching Method: One 2 hour lecture and one 1 hour tutorial per week.

<u>Evaluation:</u>	Essays) one of	60%
	Oral presentations) each	20%
	Book reports) per term	10%
	Oral examination		10%

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

Instructor: A. Boddington.

Session: Winter Day

Content: The following topics will be considered: The development of historiography as a form of expression, its uses and possible abuses: the intellectual and cultural milieu of each author, and the nature of its influence upon him: - the problems of source criticism: - the literary qualities of the 4 authors.

Teaching Method: 3 lectures a week. Students are encouraged to ask questions in class and seek personal interviews.

Evaluation: 3 short assignments.
1 essay - 3000 words.
1 Class Test.

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

Course Description: Special topics will be chosen for study, depending on the interests and qualifications of the students.

Instructor: Ann Boddington

Session: Winter Day

Study of the period covered by B01Y, at more specialized level. Students will be expected to study the source material in some depth - in translation. Choice of topics for study will depend on the interests and qualifications of the study. This course should be useful to students of Classics and GRH, and might interest students of Anthropology, History and Political Science.

Content/Objective: To look at people, places, ideas for which survey courses can't find room. To challenge conventional platitudes about the Greeks. To study the source material intelligently.

Teaching Method: 2 seminar meetings a week.

Evaluation: 1 Major Paper
1 Final Exam, on topics covered in class
3 Short assignments

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 Greco-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 Greco-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 site 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 living community. Students will be expected to acquire 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 three hour seminar per week.

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

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

Instructor: M.E. Irwin

Session: Winter Day

Objective: This is an introductory course for students who wish to acquire a basic reading knowledge of ancient Greek. No prior knowledge of Greek is expected.

Content and Method: Four hours a week intensive class work, examining authentic Greek texts and doing exercises in conversion and translation, to acquire a knowledge of the basic grammatical forms, syntax vocabulary, etc. The texts will introduce students to various aspects of Greek life: the gods, marriage and home life, women, love and friendship, war and wisdom.

Text: B.R. Rees and M.E. Jervis Lampas: A New Approach to Greek (Blackwell 1972).

Evaluation: several term tests plus a final examination.

(This course is not open to students with Grade XIII Greek).

GRKB01F Plato: Apology

Prerequisite: Grade 13 Greek or GRKA01

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: M.E. Irwin

Session: Winter Day

Objective: To read in Greek and understand the Apology (Plato's account of Socrates' defense against the charges of religious non-conformity and of corrupting the young); to appreciate the magnitude of the man 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; other ancient evidence for the character of Socrates and the conduct of his trial; and a review and further study of 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.

Texts: Plato Euthyphro, Apology of Socrates and Crito ed. J. Burnet (Oxford 1967).
Plato The Last Days of Socrates tr. H. Tredennick (Penguin 1969)
A Greek-English Dictionary.

Evaluation: Two translations and comment tests and a short essay.

GRKB11S Homer: Odyssey

Prerequisite: GRKB01; HUMB25 is recommended but not required

Course description: A reading of three books of the Odyssey with discussion of the nature and literary qualities of Homeric epic.

Instructor: John Warden

Session: Winter Day

Content: Odysseus washed up on the beach at Phaeacia; Odysseus escaping from the Cyclops' cave. An introduction to Homer's language, his poetry and his world. The aim is to learn some Greek (after initial difficulties of vocabulary and dialect Homeric Greek runs fairly easily) and to enjoy one of the worlds' great poems at close quarters. We'll be reading 3 books in the Greek, and the rest in translation.

Method: 3 classes a week, translating and discussing. Students will be expected to attend and participate. Details of evaluation will be worked out in class. Something like: two tests (translation and comment) and a short essay.

Text: Homer, Odyssey VI, VIII and IX.

GRKB30F-B34F Supervised Reading

Prerequisite: GRKB11 or GRKB12

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

Co-ordinator: M.E. 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 to 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 tutor once a week normally for a two hour period - the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. 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 studied.

GRKB35S-B39S Supervised Reading

Prerequisite: GRKB11 or GRKB12

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

Co-ordinator: M.E. 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 to 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 tutor once a week normally for a two hour period - the exact arrangements depending on the difficulty of the chosen text and the level of the student's ability. 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 studied.

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 LATB01 or LATB02.

Instructor: I.R. McDonald Session: Winter Day

Objective: 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 complexity 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 routine will be varied by occasional lectures, discussions, slides, 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 F.M. 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 of which he can afford to neglect for any extended period.

Prerequisite: Grade 13 Latin or LATA01

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

Instructor: John Warden Session: Winter Day

To learn Latin by reading one of the greatest of all love poets. Is that fair on the poet? Is it fair on the student? The poet can stand it; and the best way to understand poetry is to be forced to grapple with the words it's made of. Each class is a seminar discussing a poem, its language and metre, its structure and imagery, its relationship to literary influences and contemporary society. It's a small class, and students will be expected to attend and participate. Together with the reading we'll be conducting a language review.

Text: Catullus, The Poems (ed. Kenneth Quinn) Macmillan 1970.

Evaluation: Probably two tests (translation and comment) and a short essay (or seminar presentation). Details to be worked out in class.

Prerequisite: Grade 13 Latin or LATA01

Course description: Sallust's Catilinarian Conspiracy and selections from Cicero's orations in Catilinam will be read. The texts will provide an opportunity of comparing two accounts of the same events from both a literary and historical viewpoint and of examining the causes for the breakdown of the Roman Republic.

Instructor: Ann Boddington: Session: Winter Day

Content: Apart from reading the prescribed 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. Close attention 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 and performance in class.

Prerequisite: LATB01 or LATB02

Course description: A careful study of a selected number of Horace's Odes and Epodes with attention to the social, cultural and political milieu of the poet.

Instructor: I.R. McDonald Session: Winter Day

Objectives: To learn to read and enjoy the lyric poetry of Horace; to understand its forms and structures; to see it in relation to the work of Horace's predecessors and contemporaries; to place it in its cultural and historical context.

Content: Close reading and discussion of a representative selection of the Odes, with occasional reference to other works of Horace as well.

Teaching Method: Three one-hour classes each week, involving active participation by each student in translating and discussing the poems assigned. This routine will be varied by occasional lectures and other events. Reasonably regular attendance is essential.

Evaluation: Two class tests on the translation-and-comment variety, plus a short essay on a literary subject. Each piece of work will be weighted equally.

Note: A bibliography, reading list, and a tentative selection of poems to be read may be had from the instructor prior to the beginning of classes.

LATB30F-33F
LATB35S-39S

SUPERVISED READING

Prerequisites:

LATB01 or LATB02

LATC01F-02S

INDEPENDENT STUDIES

Prerequisites:

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

Interested students should contact Professor M.E. Irwin, Discipline Representative.

Commerce

Commerce courses are designed both for those students who intend to specialize in the area and for those who wish to take one or more Commerce courses to supplement their studies in other areas. Courses in Commerce will 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 Programme in Commerce and Economics (see pp. 52-3 of the 1976-77-78 Calendar). Graduates of a fifteen or twenty course degree programme may be eligible for admission to graduate study in business or may seek employment in accountancy (see separate brochure available from office of Student Services) or other industrial/commercial/governmental careers.

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

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

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

COMA01Y Financial Accounting

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

Instructors: T.B.A. Session: Summer Evening,
Winter Day and Evening

Content: The course begins with an examination of the "accounting model" and then looks at 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.

Evaluation: Two mid-term tests plus examinations in December and April. Weekly homework assignments account for 10% of the final mark.

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. In past years up to 25% of those who register in September have not completed the course and a further substantial number have failed to pass the course.

COMB01Y Management Accounting

Exclusions: (COMB21); (COMB22)
Prerequisite: COMA01

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

Instructor: T.B.A. Session: Summer Evening,
Winter Day and Evening

Content: Topics will include cost-volume-profit relationships, job and process costing systems, variable costing concepts, joint costs, standard costs, planning, budgeting and control, and an introduction to capital expenditure analysis.

Teaching Method: Normally two hours of lecture-discussions per week.

Evaluation: Weekly homework assignments, three tests and a final examination.

Additional Comments: The workload in the course is substantial and is spread evenly over the year. Many students find the course very demanding.

COMC01Y Accounting Theory

Prerequisite: COMB01

Course description: An examination of some of the theoretical and practical accounting problems involved in income determination and balance sheet valuation, including the problem of changing price levels. Limited enrolment: 50.

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

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

Teaching Method: Most of the class time will be devoted to students' presentations 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. In addition one or more essays may be required.

Additional Comments: Since extensive class participation is expected, regular attendance is expected.

COMC03Y Marketing

Prerequisite: COMB01

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

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

Additional Comments:

No further details are available at the present time. For further information, contact the Assistant Chairman, Commerce.

COMC15Y Income Tax

Prerequisite: COMB01

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.

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

Additional Comments: No further details are available at the present time. For further information, contact the Assistant Chairman, Commerce.

COMC20Y Business Policy

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

Course description: This course examines, by means of case studies and readings, the role of top management in formulating and implementing corporate strategy.

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

Additional Comments: No further details are available at the present time. For further information, contact the Assistant Chairman, Commerce.

COMC30Y The Legal Environment of Business

Prerequisites: Completion of at least ten courses including COMA01 and ECDA01

Course description: An intensive examination of those aspects of the law that most directly affect the operations of a business.

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

Additional Comments: No further details are available at the present time. For further information, contact the Assistant Chairman, Commerce.

Computer Science

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 linguists. Computer science includes the identification of classes of problems that can be solved using computers, the study of ways of representing the relevant information in computer usable form, and the investigation of how to describe solutions best in terms of the operations that computers can perform.

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

Course offerings are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers in other fields. The majors programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare him for graduate study. The majors 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 CSCA56F and CSCA66S. JMCC51S is then available, as are CSC208S, 218F, and 300F, given on the St. George campus.

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

CSCA56F/H

Computer Programming

Exclusions:

CSCA58, (MATA56), (MATA58)

Prerequisite:

One Grade 13 course in Mathematics

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

Instructor: R. Moenck

Session: Winter Day & Evening

Objectives and Content: This course provides an introduction to computing. The purpose of the course is to introduce the student to algorithms and to acquaint him with the capabilities and limitations of the computer. The course can be roughly divided into two six-week sections. The first six weeks are spent learning PL/1 as an example of a programming language. This language is introduced as a tool for the precise specification of an algorithm. Its dual purpose, to communicate algorithms to both machines and other people, is emphasized. In the second six weeks sample problems from several application areas are studied to demonstrate the variety of problems that are solved with the aid of computers.

Evaluation: A term test

A final exam

Five assignments

Several tutorial quizzes

CSCA58F

Introduction to Computing

Exclusions:

CSCA56, (MATA56), (MATA58)

Prerequisite:

Grade 13 Functions and Relations, or Grade 13

Calculus

Corequisite:

MATA26 or MATA40 or MATA55

Course description: The specification and formulation of algorithms. Introduction to computer organization and assembly language. Programming in a high-level language such as PL/1. Structured programming. Elementary applications.

Instructor: C.R. Perrault

Session: Winter Day

Content: The PL/1 programming language is used as a vehicle for the formulation and implementation of correct, lucid, and efficient algorithms for digital computers. Applications of programming techniques are considered.

Teaching Method: 2 hours of lectures and 2 hours of tutorials per wk.

Evaluation: Mid-term and final examinations, and 5 programming assignments.

Exclusions: CSCA68, (MATA68) (MATA66)
Prerequisites: (MATA56) or (MATA58) or CSCA56 or CSCA58

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

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

Objectives and Content: This course is a continuation of CSCA56 and it covers sample problems from several areas. Topics covered in this course include data structures, recursion, data processing, graph theory (game theory), and numerical computations. More emphasis is put on data structures and recursion. Three weeks are spent on data structures where structures such as linked lists and trees are studied. The rest of the course is evenly distributed between the other topics.

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

Exclusions: CSCA66, (MATA66), (MATA68)
Prerequisite: (MATA58) or CSCA58 or (MATA56) or CSCA56 and permission of instructor

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

Instructor: R. Perrault 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 wk.

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

Exclusion: (MATB28)
Prerequisite: (MATA68) 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.

Instructors: R. Moenck 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, generalised file processing systems. Some applications will be examined and an overview of the role of mathematical modeling in the business environment will be given.

Teaching Method: Lectures and tutorials.

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

Exclusion: (MATB68)
Prerequisite: (MATA68) or CSCA68

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

Instructor: W. H. Enright Session: Winter Day

Objective 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, SNOBOL, 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

Exclusion: (MATB73)Prerequisite: (MATA68) or CSCA68

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

Instructor: R. MoenckSession: Winter Day

Content: Specific topics include: an introduction to boolean algebra the design and analysis of gate networks, memory devices, the organisation of a simple microprogrammed machine, basic data representation, assembler language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines.

Teaching Method: Lectures and tutorials.Evaluation: 2 - One hour Quizzes

6 - Written or programming assignments

Exclusion: (MATC34)Prerequisite: (MATB68) or CSCB68

Course Description: This course is designed to teach students that care taken in representation of information can lead to improvements in the quality of programmes. A selection of topics will be used to illustrate approaches to choosing a data structure and associated algorithms.

Instructor: R. PerraultSession: Winter Day

Content: Specific Topics covered include: Basic data types and their representation, sequences, graphs and basic graph algorithms, representation of trees and heaps, internal and external sorting algorithms, search aiding structures: trees, dictionaries and hash tables, file structures, data base systems.

Teaching Method: Lectures and TutorialsEvaluation: 2 - Tests

6 - Written or programming assignments

Prerequisites: CSCB28, CSCB73, CSCB68

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

Instructor: R. MoenckSession: Winter Day

Content: Specific topics include: a overview of a language processor, lexical analysis, an introduction to the mathematical theory of syntax, basic concepts of syntactic analysis and parsing algorithms, specification of semantics and code generation, the run-time organisation 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

Drama

Discipline Representative: M. Schonberg

The courses in Drama are open to all full-time or part-time students. Those wishing to specialize in the study of dramatic literature and theatre should refer to the Calendar section on specialist programmes.

DRAB01Y

DRAMA SEMINAR AND WORKSHOP

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-literary elements of theatre, dealing with theatrical conventions, acting styles, and methods of production from classical times to the present. The workshop will develop a full scale theatrical production.

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 Rinehart). 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.

DRAB02Y

The Directors' Theatre

Course description: The course will explore the work of famous theatrical companies of the Nineteenth and Twentieth centuries and the contribution to theatre made by, among others, Antoine, Stanislavsky, Craig, Belasco, Copeau, Reinhardt, Brecht, Barrault, Brook, Littlewood, and Grotowski.

Instructor(s): M. Schonberg Session(s): Winter Day

Content: The study of the theoretical statements and practical work of directors from 1860-1960, including such personalities as the Duke of Saxe-Meiningen, Andre Antoine, Constantin Stanislavsky, Gordon Craig, David Belasco, Jacques Copeau, Max Reinhardt, Bertolt Brecht, Jean-Louis Barrault, Peter Brook and Jerzy Grotowski.

Teaching Method: There will be two 1-hour classes weekly which will include lectures as well as seminars, and extensive use of visual materials. Students will prepare individual projects related to the work of specific directors and theatres.

Bibliography: Cole, Toby and Chinoy, Helen Krich, ed. Directors or Directing. Jerzy Grotowski. Towards a Poor Theatre, (published Simon and Schuster). Brook, Peter. The Empty Space, (published by Avon). Gorelik, Mordecai. New Theatre for Old. Other texts T.B.A.

Evaluation: Essays and class tests.

DRAB03Y

The History of Theatre I

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

Instructor(s): M. Schonberg Sessions: Winter Day

Content: Areas of concentration will include classical Greek and Roman Theatre, with special emphasis on the Hellenistic period; Western European Medieval dramatic traditions; the impact of the commedia dell'arte on European Theatre; the Elizabethan and Jacobean traditions; the theatre of the Baroque; Restoration theatre; neo-classicism. Acquaintance with representative plays of the various periods will be required.

Teaching Method: There will be two 1-hour lectures weekly, and tutorials.

Bibliography: Gassner and Allen, 2 vols. Theatre and Drama in the Making. Oscar Brockett. History of the Theatre. Representative plays T.B.A.

Evaluation: Essays and class tests.

DRAC01Y Advanced Practical Workshop and Elements of
Directing
Prerequisite: DRAB01

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.

Instructor(s): M. Schonberg Session(s): Winter Day

Content: Advanced exercises in acting skills, scenework, 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.

DRAC10Y Individual Studies in French Theatre and Drama
in Translation

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

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

Instructor(s): Members of the French Staff Session(s) Winter Day

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

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

Bibliography:

To be arranged.

Evaluation: to be announced later.

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

DRAC11Y Individual Studies in German Theatre and Drama
in Translation
Prerequisite: Same as for DRAC10

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 students.

Bibliography: To be arranged.

Evaluation: to be announced later

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

DRAC12Y Individual Studies in Italian Theatre and Drama
in Translation
Prerequisite: Same as for DRAC10

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 students.

Bibliography: To be arranged.

Evaluation: to be announced later.

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

Prerequisite:

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-ordinator required.

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

Instructor(s): Members of the Russian Staff Session(s): Winter Day

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

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

Bibliography: To be arranged.

Evaluation: to be announced later.

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

Prerequisites: One B-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 Mr. M. Schonberg, co-ordinator of drama program, who will arrange in co-operation with the student a reading list and set the specific requirement for the course.

Instructor(s): M. Schonberg 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 Mr. M. Schonberg.

Economics

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

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

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

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

<u>Course Name</u>	<u>Number in 1975-76 and before</u>	<u>Number in 1975-76 and beyond</u>
Price Theory I, II	ECOB01Y	ECOB01F&S ECOB02S
National Income and the National Economy	ECOB02F	ECOB05S&F
North American Economic History	ECOB03Y	ECOB81Y
European Economic History	ECOB04Y	ECOB82Y
Economics of Public Sector:		
Taxation	ECOB07S	ECOB31S
Expenditures	ECOB08F	ECOB32F
Economic Development	ECOB09F	ECOB66F
Comparative Economic Systems	ECOB10F	ECOB68S
Money and Banking	ECOB11S	ECOB08F&S
International Economics:		
Finance	ECOB12F	ECOB61F
Trade Theory	ECOB13S	ECOB62S
Labour Economics	ECOB14S	ECOB51S
Industrial Organization	ECOB16S	ECOB41S
Urban Economics	ECOB17F	ECOB47F
Macroeconomic Policy	ECOB18S	ECOB06S
Literature of Political Economy I	ECOB20F	ECOB20F
Literature of Political Economy II	ECOB21S	ECOB21S
Analysis for Decision Making	ECOB26Y	ECOB72F & 73S

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: M.Krashinsky, D.Campbell, Sessions: Summer Evening
L.Tarshis Winter Day and 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: All sections require frequent problem sets, counting towards the final grade. A Christmas mid-term and a final examination are mandatory and term quizzes are also likely, all details to be provided at the beginning of the course.

ECOB01F and S Price Theory I

Prerequisite: ECOA01

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.

Instructors: M.Krashinsky, J.Scadding, Sessions: Summer Day, Winter
F.Bourguignon, R.A.Berry Day and Evening

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. Two lectures and one hour of exercises, discussions, etc.

Evaluation: Depends on the instructor. On the average three tests and five assignments.

ECOB02S Price Theory II

Prerequisite: ECOB01

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

Instructors: F.Bourguignon, J.Scadding Sessions: Winter Day and
Evening

Content: Continuation of ECOB01F and S. Covers market structure, welfare economics, problems of monopoly, market failure and so on.

Teaching Method:

Three hours per week. Two lectures and one hour of exercises, discussions, etc.

Evaluation:

Depends on instructor. On the average three tests and five assignments.

ECOB05F and S National Income and the National Economy

Exclusion: (ECOB02)

Prerequisite: ECOA01

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 also some discussion of Canadian financial institutions and markets, and of the interrelationship between international exchanges and the domestic price level and employment.

Instructors: J.Scadding, S.Howson, Sessions: Summer Day,
L.Tarshis. Winter Day.

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

Teaching Method: 3 hours of class time per week. Lectures and discussion.

Evaluation:

Quizzes and exercises	30%
1 term paper	20%
1 final exam	50%

ECOB06S Macroeconomic Policy

Exclusion: (ECOB28)

Prerequisite: ECOB05

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

Instructors: J.Scadding, S.Howson Sessions: Summer Day and 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 of lectures and discussion.

Evaluation:

Midterm	35%
Paper	25%
Final	40%

ECOB08F and S Money and Banking

Exclusion: (ECOB11)

Prerequisite: ECOA01; (ECOB11 if taken prior to 1975)

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

Instructors: J.Scadding, S.Howson Session: 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:

The evaluation is tentatively as follows:

Mid-term examination	- 30%
Term paper	- 30%
Final examination	- 40%

ECOB11F and S Quantitative Methods in Economics

Exclusion: ANTB43; (ECOA02); PSYB07

Note: MATB52 should not be taken prior to or at the same time as ECOA01

Prerequisite: ECOA01

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

Instructors: R.Westin, D.Campbell Sessions: Winter Day and Winter Evening

Content: Probability Theory, Estimation, Hypothesis Testing, Regression.

Teaching Method: Two lectures per week. One hour of tutorial every two weeks.

Evaluation:

Problems and Computer Assignments	20%
Two Mid-term exams	50%
Final Exam	30%

ECOB12S Quantitative Methods in Economics: Applications

Prerequisites: ECOB11 or (ECOA02); CSCA56 or CSCA58

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

Instructor: R.Westin Session: Winter Day

Content: See course description above.

Teaching Method: Lectures, tutorials.

Evaluation: Exams, projects, assignments, perhaps presentations.

ECOB20F Literature of Political Economy

Prerequisite: ECOA01

Corequisite: ECOB01

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 but generally accept 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 mark 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 a check on the final performance reference to the essay work and participation in class 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.

ECOB21S Literature of Political Economy II

Prerequisite: ECOA01

Corequisite: ECOB01

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

Instructor: V.W. Bladen Session: Winter Day

Content: See ECOB20F

Teaching Method: See ECOB20F

Evaluation: See ECOB20F

ECOB31S Economics of the Public Sector: Taxation

Exclusion: (ECOB07)

Prerequisite: ECOB01

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

Instructor: M.W. Bucovetsky 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: A mid-term test will count for 30% of the final mark; the remaining weight will be carried by the final examination.

ECOB32F Economics of the Public Sector: Expenditures

Exclusion: (ECOB08)

Prerequisite: ECOB01

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

Instructor: M.W. Bucovetsky 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: The final examination will carry a 60% weight. Term marks will depend equally on a mid-term test and one or more written assignments.

ECOB35S

Public Decision Making

Prerequisite:

ECOA01

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

Instructor: M. KrashinskySession: Winter Day

Content: The course begins by examining the view of the public role in the economy, as held by "liberal" economists, Marxists, free-market supporters, and others. We then consider how public policy is actually made, examining various models in the literature. Case studies of current problems complete the course.

Teaching Method: Lectures, participation dependent on enrolment.

Evaluation: 1 term exam worth 25% - 1 final exam worth 50% - 1 paper (3000-4000 words) worth 25%.

ECOB41S

Industrial Organization

Exclusion:

(ECOB16)

Prerequisite:

ECOB01

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: M.W. BucovetskySession: Winter Day

Content: A three-fold approach is taken using theoretical models, institutional description 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: The final examination carries a 70% weight. Term work consists of one test and one or more "problem" assignments.

ECOB43S

Economics of the Family

Prerequisite:

ECOA01

Course description: The family as a functional unit in economic society. The division of economic activity within the family and with relation to the market economy. Topics may include: marriage, fertility, day care, human capital, household production, discrimination, consumer protection.

Instructor: I. ParkerSession: Winter Day

Content: The first part of the course examines critically the neoclassical theory of marriage, fertility and the sexual division of the labour. The second part is an historical materialist analysis of the family and especially of the sexual division of labour in the context of particular systems of social production. Special topics include the transformation of the family in the Industrial Revolution, the changing status of women under capitalism, case studies of other non-capitalist societies.

Teaching Method: Mainly lectures (2 hours per week); discussion is strongly encouraged.

Evaluation:

One essay 50%

One final 50%

ECOB45F

Poverty and Income Distribution

Prerequisite:

ECOB01

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: T.B.A.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, etc.

Teaching Method: Basically a lecture course due to the large class size. 2 hours of lectures per week. Most of the analytical and theoretical work will be covered in lectures and some readings.

Evaluation: One or two term tests each worth 20 marks and a final exam.

ECOB47F Urban Economics

Exclusion: (ECOB17)

Prerequisite: ECOA01

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: T.B.A. 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 discussion (if enrolment permits).

Evaluation: Term examination and quizzes worth 50% and a final examination worth 50%.

ECOB51S Labour Economics

Exclusion: (ECOB14)

Prerequisite: ECOB01

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

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

Content: Methodology of labour market economics, economic theory of fertility and family formation, labour force participation rate theory, hours of work, work-leisure choice, labour demand, market structure and its effect on wage-employment determination, wages and wage structure, etc.

Teaching Method: Basically a lecture course due to large class size with 2 hours of lectures per week.

Evaluation:

One or two mid-terms each worth approximately 20% and a final examination.

ECOB61F International Economics: Finance

Exclusion: (ECOB12)

Prerequisite: ECOB05

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

Instructor: L.Tarshis Session: Summer Day, Winter Day

Content: We begin by examining the operations of the three "systems" - the Gold Standard; the post-1946 IMF Dollar Standard; and the regime of Floating Rates adopted rather generally in 1971, considering carefully how they deal with such stresses as Balance of Payments Disequilibrium or an episode of Inflation or Depression in one country; how they respond to changes in the demand for International Reserves; and so on. We also devote attention to a number of "policy issues".

Teaching Method: 2 lectures a week, with as much discussion as possible.

Evaluation: 1 or 2 mid-term exams; a final exam and up to 6 problem assignments turned in on a scheduled basis during term. Final exam approximately 50% of course grade; the mid-term(s) for about 25%; the problems assignments will count for the balance. At the beginning of term students will get detailed listing of lecture topics, assignment due dates, sample of possible exam questions for guidance and a final statement as to the procedures to be followed in determining the Final Grade.

ECOB62S International Economics: Trade Theory

Exclusion: (ECOB13)

Prerequisite: ECOB01

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

Instructor: I.Parker Session: Summer Day, Winter Evening

Content: Empirical patterns of modern international trade; alternative theories of international trade; theory of comparative advantage; protective policy; customs unions; multinational corporations.

Teaching Method: Two lectures per week. Class discussion when possible is encouraged.

Evaluation: One essay, one term test and quizzes.

ECOB66F Economic Development

Exclusion: (ECOB09)

Prerequisite: ECOA01

Corequisite: ECOB01

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

Instructor: A. Berry Session: Winter Day

Teaching Method: Lectures

Evaluation:

- 1 one-hour mid-term test
- 2 take home questions/problems
- 1 final examination

ECOB68F Comparative Economic Systems

Exclusion: (ECOB10) Prerequisite: ECOB01

Course description: This course is designed to provide students with some basic methods for analyzing open economic systems in theoretical and empirical-historical terms. Lectures are divided roughly equally between theoretical analysis and empirical examination of particular economic systems.

Instructor: I. Parker Session: Winter Day

Content: Theoretical consideration is given to ecological, neoclassical and Marxist methods of characterizing open economic systems; to command, exchange, and customary economic organizations; to centralization, decentralization hierarchies, and the centre-margin dialectic; and to the nature of the contradictions that generate system change. Empirical studies will be determined by the interests of course members and the capacities of the instructor, but will include the U.S.S.R. and China. Other systems which have been considered in the past are those of Cuba, Hungary, Yugoslavia, Japan, Ghana, Tanzania and South Africa, but additional possibilities exist.

Teaching Method: Lectures and discussion.

Evaluation:

- 2 book reports
- 1 major research paper
- 1 final take-home examination.

ECOB81Y North American Economic History

Exclusion: (ECOB03) Prerequisite: ECOA01

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 staple industries, and urbanization, and the relationship of the state of economic change in the two countries.

Instructor: D.E. Moggridge Session: Winter Day

Content: After a discussion of the factors behind the expansion of Europe to 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, 1790-1860, 1860-1914, 1914-1939. 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: Final examination, 50%; Christmas test, 10%; two essays of 10-12 typed pages, 40%. However, if the final examination mark is higher than the term mark, it will count for 100%

ECOB82Y European Economic History

Exclusion: (ECOB04) Prerequisite: ECOA01

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 the nineteenth century world economy. Particular attention is paid to technical change, the expansion of markets, population growth, the economic effects of public policy, and consequent changes in income levels and the structure of the economy.

Instructor: S.M. Eddie Session: Winter Evening

Content: Among other topics, enclosures 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 reforms, revolutions, and economic development in 19th century Europe; late Victorian retardation.

Teaching Method: Lectures and discussion.

Evaluation:

- | | |
|--------------|-----|
| 2-3 Quizzes | 10% |
| 2 term exams | 60% |
| 1 essay | 30% |

ECOC05S The Economics of J.M. Keynes

Prerequisites: ECOB05; ECOB06 or ECOB08; ECOB01

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

Instructor: D.E. Moggridge Session: Winter Day

Content: After a series of introductory discussions of the work of Keynes, its context and influence, the course will look at a series of topics within the field in greater detail. The topics chosen will vary with the interests of the participants and will be subjects for student presentations.

Teaching Method: Seminar/group discussions - 2 hours per week. For this reason, enrolment is limited to approximately 20.

Evaluation:

Final examination 50%; essay of 10-20 typed pages, 30%; class presentation, 10%; class participation 10%.

ECOC07F The Economics of Karl Marx

Exclusion: (ECOB05)

Prerequisite: ECOB01

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: D.Mole Session: Winter Evening

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

Teaching Method: Lecture and discussion.

Evaluation: One essay, final examination, class participation.

ECOC11F and ECOC12S Supervised Reading

Prerequisite: Permission of Instructor

Course description: No course description available at the present.

Instructors: Faculty in Economics. Sessions: Summer Day,
Winter Day, Evening.

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.

ECOC13F

Advanced Microeconomic Theory

Prerequisites: ECOB02; ECOB05; ECOB11; MATA22 or MATA26 or MATA55

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

Instructor: F. Bourguignon Session: Winter Day

Content: Topics to be covered include general equilibrium, welfare economics, linear production theory, problems of risk, uncertainty, information and so on.

Teaching Method: Lectures

Evaluation: Quizzes, exercises, exams.

ECOC14S

Advanced Macroeconomic Theory

Prerequisites: ECOB05; ECOB06 or ECOB08; ECOB11; 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 macro-econometric models.

Instructor: S. Howson Session: Winter Day

Teaching Method: Lectures and class discussion

Evaluation:

2 short essays - 20% each
1 final exam - 60%

ECOC15F and ECOC16S Topics in Advanced Economic Theory

Prerequisites: ECOB01; ECOB02; ECOB06; MATA22 or MATA26 or MATA55

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 received theory, or to alternatives to orthodox economic theory.

Instructors: T.B.A. Sessions: ECOC15F Winter Day and Evening
ECOC16S Summer Evening and Winter Day.

Content: The content of these courses change with the instructor and with new developments in economic analysis. In the past, topics have included capital theory, risk and uncertainty, growth theory, etc. An attempt will be made to circulate during spring registration more precise information on content for the coming year.

Teaching Method: Seminar/group discussion - 2 hours once a week.

Evaluation: T.B.A.

ECOC17F, ECOC18S, Workshop in Economics
ECOC19F and ECOC20S

Prerequisites: ECOB01; ECOB02; ECOB05; ECOB06; MATA22 or MATA26 or MATA55

Course description: The problems to which the individual workshops will be devoted will be announced during the spring registration period. They may be chosen from among: economic discrimination; Canada-U.S. relative price levels; international capital movements; natural resources policy for Canada; monetary and fiscal policy in an open economy; urban transportation.

Instructors: M. Krashinsky, D. Campbell, L. Tarshis.

Session: Winter Day

Content: Varies with instructor. This year topics will include Eurodollars, resources, markets and firms, and so on.

Teaching Method: Seminar format - class discussions, student presentations.

Evaluation:

Class participation, essays, one term exam. Subject to variation.

English

Discipline Representative: John Kay

English Studies has as its subject matter all the communicative arts in English. The range of subject matter encompasses the study of English, Canadian, and American literatures and, to a limited extent, other literatures in English. Emphasis is placed on close responsive critical reading, clarity of expression, and the development of the powers of criticism and judgment. The program is directed toward the broadening of experience, the refinement of feeling and judgment, and the expansion of the imagination.

Students are advised, when selecting courses in other disciplines, to match their English courses with appropriate courses in those disciplines: i.e. with courses in Classics concerned with literary criticism, comedy, tragedy, satire, love poetry; with appropriate historical period courses in foreign literatures; with courses in Aesthetics (see Philosophy), History, Drama, Fine Arts, Comparative Literature (see Humanities). Courses in contemporary literature may also be profitably combined with studies in Anthropology, Sociology or Philosophy.

A-level courses in English: All A-level courses in English are designed to provide a basic training in literary discussion.

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

ENGA04Y 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.

Instructors: The Staff in English
Course Chairman: E.P. Vicari

Session: Winter Day
Winter Evg.
Summer Evg.

Content: A variety of works will be read representing four major kinds of literary art, the short story, play, poem 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 analyzed 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 formal instruction and discussion. Regular attendance is required.

Evaluation: Written essays (a total of 7,500-10,000 words)
Participation in discussion. 3-hour final examination.

ENGA08Y Forms of Twentieth-Century Literature

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

Instructors: The Staff in English
Course Chairman: A.C. Thomas

Session: Winter Day

Content: At least three prose works to be selected from the following: Joyce, A Portrait of the Artist as a Young Man, Conrad, Lord Jim, Lawrence, Sons and Lovers (or short stories), Faulkner, The Sound and the Fury, Steinbeck, The Grapes of Wrath, Scott Fitzgerald, The Great Gatsby, Woolf, To the Lighthouse. The work of at least three poets, to be selected from Yeats, Eliot, Pound, Auden and Frost (in Modern Poems, ed. Ellman and O'Clair). Plays by three of the following: Shaw, O'Neill, Synge, Beckett, Albee, Pinter.

Teaching: Classes of about thirty students.

Evaluation: Four essays (or equivalent); term tests; class participation.

ENGB01Y Old English Language and Literature

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

Instructor: A.J.G. Patenall Session: Winter Day

Teaching Method: Three hours of cooperative workshop each week. Students will be expected to prepare work for these meetings.

Bibliography: J.C. Pope, ed. Seven Old English Poems
AElfric, Lives of Three English Saints
Quirk and Wren, An Old English Grammar

Evaluation: Evaluation begins in March by means of testing. The tests cover grammar, translation, and scansion. One essay is also required in March. No final examination.

Prerequisite: One course in English

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

Instructor: E.P. Vicari

Session: Winter Day

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

Teaching Method: Lecture-discussions and seminars.

Evaluation:

3 2,750-word essays

2 oral presentations

2 1-hr. translation and language tests

ENGB04Y English Poetry, Prose and Drama 1660-1800

Prerequisite: 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(s): Wm. J. Howard/H. Jackson Session: Winter Day

Objectives: To read the prescribed texts in the light of the historical period and culture. To develop the student's skills as reader and critic. To improve the student's ability to express himself in written and spoken English.

Content: Works from all genres are studied from the period stretching from 1660 to the end of the eighteenth century. Four major writers, Dryden, Swift, Pope and Johnson will be chosen for special study.

Teaching Method: Classes will combine lecture and discussion.

Bibliography: Reading list available in R-5111A.

Evaluation: Normally one long and two short essays each term.

ENGB05Y Romantic Poetry

Prerequisite: One course in English

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

Instructor: J. Kay

Session: Winter Day

Content: Discontent: on their part the breakdown of 18th c. poetics and the Lockean psychology - the re-emergence of the "romance" tradition - the attempt to assert the validity of the spiritual or imaginative man - the influence of Hume's scepticism and the distrust of nature: on my part the redemption of the Romantic movement from Sir Kenneth Clark.

Teaching method: Lectures interspersed with jarring questions.

Evaluation: Four eight-page papers and a "factual" term test.

ENGB06Y 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, Hardy.

Instructor: H. Jackson

Session: Winter Day

Objectives: The course is intended to improve students' reading and increase their enjoyment of poetry in general; the preoccupations of the Victorian period in particular (in such areas as religion, philosophy, psychology, science, and art) will be considered as they are reflected in successful poems.

Teaching Method: Two hours a week, lecture-discussion.

Evaluation: Two short papers, one longer essay, and one test each term

Bibliography: Victorian Poetry and Poetics, ed. Houghton and Stange (Boston: Houghton-Mifflin, 1959 etc.). Additional texts to be assigned for background reading.

ENGB09Y Prose and Poetry of the English Renaissance 1500-1660

Prerequisite: One course in English

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

Instructor: D. DeMatteis

Session: Winter Day

Content: The poetry of Wyatt, Surrey, Sidney, Marlowe, Shakespeare, Sidney, Donne, Jonson, Herbert, Herrick, Marvell, Vaughan; Spenser (including *Faerie Queene I, II and Mutabilitie*); Milton (including *Paradise Lost*); More's *Utopia*; Sidney, *Apology for Poetry*; Browne, *Religio Medici*; and other selected prose.

Teaching Method: Lecture and discussion. Seminars.

Evaluation: An oral report each term, an essay each term and an in-class test each term.

ENGB10Y Shakespeare

Course description: A study of at least eleven plays.

Exclusions: [ENGA02Y].

Instructor: A.J.G. Patenall

Session: Winter Day

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 expose the lecturer's own aesthetic and critical prejudices. 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*; *Romeo and Juliet*; *Twelfth Night*; *A Midsummer Night's Dream*; *The Tempest*; *The Merchant of Venice*; *Richard II*; *1 Henry IV*; *2 Henry IV*; *Henry V*; Frye, *A Natural Perspective*; Richter, *Shakespeare and the Idea of the Play*.

Evaluation: Between 2500 and 10,000 words in essays.

ENGB11Y Varieties of Drama

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

Instructor: Alan Thomas

Session: Winter Day

Content: Sophocles, *Oedipus Rex*; Aristophanes, *The Frogs*; Marlowe, *Dr. Faustus*; Shakespeare, *Antony and Cleopatra*; Webster, *The Duchess of Malfi*; Ibsen, *The Doll's House*; Shaw, *St. Joan*; Brecht, *Mother Courage*; Jonson, *Volpone*; Congreve, *The Way of the World*; Synge, *The Playboy of the Western World*; Chekhov, *The Cherry Orchard*; Duerrenmatt, *The Physicists*; Pinter, *The Caretaker*; Beckett, *Waiting for Godot*; anon., *Everyman*. Additional reading: Aristotle, *Poetics*. (chs. 4-18).

Teaching Method: Two lectures a week; tutorials, may be introduced if the enrolment warrants it.

Evaluation: One essay (about 1500 words) and two tests each term.

ENGB12Y 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.M.R. Margeson

Session: Winter Day

Content: Main emphasis of the course will lie upon the plays: several 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, play-readings, and if interest warrants, productions of a short play and scenes from plays. Evaluation will be based on 2 major essays (50%), 2 in-class reading tests (20%), and 2 tutorial presentations or participation in readings and productions (30%).

Texts: Parks and Beatty, *The English Drama 900-1642* (Norton)
Shakespeare: *Comedy of Errors*, *Richard III*, *Much Ado About Nothing*, *Measure for Measure*, *Othello*, *Pericles*, *The Winter's Tale*.

ENGB13S Drama in English Canada: 1920-1970

Prerequisite: One course in English

Course description: A study of representative plays and the theatrical history of the period.

Instructor: M.S. Tait Session: Spring Day

Content: In addition to a close analysis of individual plays, we shall consider the evidences of continuity and tradition in Canadian dramatic writing. The course will focus upon the cultural conditions which have impeded and shaped the development of drama in English Canada.

Teaching Method: Seminar discussion.

Evaluation: 1 essay
1 seminar report
1 end of term test

ENGB14Y 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.H. Ramsey Session: Winter Day

Content: Richardson, Pamela; Swift, Gulliver's Travels; Austen, Pride and Prejudice; Shelley, Frankenstein; Bronte, Wuthering Heights; Hardy, Tess of the D'Urbervilles; James, The Ambassadors; Joyce, Portrait of the Artist; Faulkner, The Sound and the Fury; Woolf, The Waves; Lowry, Under the Volcano; Fowles, The French Lieutenant's Woman.

Teaching Method: Lectures and discussion.

Evaluation: One short and one long paper each term.

ENGB15Y English Poetry

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

Instructor: M.S. Tait Session: Winter Day

Content: A variety of poetic forms will be considered including the dramatic monologue, the ballad, the sonnet, the visionary lyric, and the poetry of wit and satire. 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: 2 essays
2 class tests

ENGB16Y Fiction 1832-1900

Prerequisite: One course in English

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

Instructor: Alan Thomas Session: Winter Day

Objective: to provide an understanding of the English novel at one of its most assured and fruitful periods of creation.

Content: C. Bronte, Jane Eyre; G. Bronte, Wuthering Heights; Dickens, Hard Times, Our Mutual Friend; Thackeray, Vanity Fair; Meredith, The Egoist; G. Eliot, Middlemarch; Trollope, The Way We Live Now; Hardy, Far from the Madding Crowd, Jude the Obscure; Conrad, Lord Jim. Students should try to read as many of the books as possible before the course begins. Additional reading: Young, Victorian England; Houghton, The Victorian Frame of Mind; Fowles, The French Lieutenant's Woman (a modern "Victorian" novel).

Teaching Method: Two lectures a week with class discussion; tutorials, in addition, if the enrolment is large.

Evaluation: One 2000-word essay, two tests, each term.

ENGB17Y Fiction before 1832

Prerequisite: One course in English

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

Instructor(s) Wm. J. Howard/H. Jackson Session: Winter Evening

Type of Course: Intermediate level for all interested students. Part of the English Major Programme. Also for students in other disciplines.

Objectives: To read the prescribed texts in the light of the historical period and culture. To develop the student's skills as reader and critic. To expand the student's understanding of the novel as a literary form and to improve the student's ability to express himself in written and spoken English.

Content: The course will attempt to include all of the significant works that shaped the history and formation of the English novel up to 1832.

Teaching Method: Classes will combine lecture and discussion. Close textual study will be emphasized.

Bibliography: available in Room R5111A.

Evaluation: Normally one long and two short essays per term.

ENGB24Y MAJOR AMERICAN AUTHORS

Prerequisites: One previous course in English

Course description: A study of five major American authors.

Instructor: J. Kay Session: Winter Evening

Content: At least twelve novels by five authors (Melville, Hawthorne, Faulkner, Bellow, and a contemporary novelist to be decided). Topics include: a) The development of each writer's style, themes and forms etc. b) Recurrent themes in the American novel, viz. Nature, guilt, primitivism, freedom, alienation, damnation and, with luck, redemption.

Objectives: To explore the ways in which writers develop from their earliest to their most mature works. To give some sense of the range of the American novel in the 19th and 20th centuries.

Teaching Method: Mainly lectures or lectures and discussions.

Bibliography: Melville, Typee, Moby Dick, Billy Budd, Hawthorne, Blithedale Romance, The Scarlet Letter and selected short stories. Faulkner, The Hamlet, As I Lay Dying, Absalom, Absalom! Bellow, Seize the Day, Herzog.

Evaluation: Two short and one long paper; two term tests.

ENGB26Y Canadian Poetry in English

Prerequisites: One course in English

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

Instructor: S. Namjoshi Session: Winter Day
Summer Day

Objectives: to gain some understanding of the relationship between poetry and its cultural context.

Teaching Method: Lectures, seminars and tutorials.

Evaluation: 2 seminars, 2 class tests and 2 essays.

ENGB27Y 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: R.H. Ramsey Session: Winter Day

Content: Duncan, The Imperialist; Grove, The Master of the Mill; Buckler, The Mountain and the Valley; Callaghan, The Loved and the Lost; MacLennan, The Watch that Ends the Night; Lowry, Under the Volcano; Watson, The Double Hook; Richler, St. Urbain's Horseman; Cohen, Beautiful Losers; Davies, Fifth Business; Laurence, The Diviners; Atwood, Surfacing; Kroetsch, Badlands.

Teaching Method: Lectures and discussion.

Evaluation: One short and one long paper each term.

ENGB32Y 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 change in poetic theory and practice that took place in the first two decades of this century and on the development of each of the poets studied. In addition, individual poems will be studied in the seminars in greater detail.

Instructor: D. DeMatteis Session: Winter Day

Content: The poetry of Yeats, Eliot, Pound, Auden, Stevens, Frost, Thomas and Williams.

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.

ENGB33Y Fiction 1900-1950 -

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

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: K. Theil Session: Winter Evening

Content: 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 technique: 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 (short essays, book reports or seminar presentations), and two term tests. Class participation is important and will be graded accordingly.

Reading List: Students are asked to read as many as possible before term.
James, The Ambassadors (Riverside) Woolf, The Waves (Penguin)
Joyce, A Portrait... (Penguin) Joyce, Ulysses (Random House)
Forster, Howards End (Penguin) Conrad, Lord Jim (Riverside)
Lawrence, Women in Love (Viking) Fitzgerald, The Great Gatsby (Scrib)
Huxley, Point Counter Point (Penguin) Ford, The Good Soldier (Vintage)

ENG005Y Studies in Restoration and Eighteenth Century Literature

Prerequisites: Three courses in English, one of which must be EngB04 or EngB17Y

Limited Enrolment: 15

Instructor: Wm. J. Howard Session: Summer Day

Type of Course: An advanced seminar focusing on poetry and poetic theory, with special study of works by John Dryden and Alexander Pope.

Objectives: To do a close study of the theory and practice of writing poetry in its social and intellectual context.

Content: In addition to the basic texts, students will read and report on critical works and influential works by other authors of the period. In their written assignments, students will be encouraged to follow routes of their own invention.

Teaching Method: Brief reports and discussion.

Evaluation: Short reports of background reading (Two or three each) and one long essay of about 4000 words.

ENG008Y Studies in Twentieth Century Literature

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

Course description: Detailed examination of Yeats, Eliot, Pound, Auden.

Instructor: S. Namjoshi Session: Winter Day

Objectives: To study some of the developments in modern poetry.

Teaching Method: Lectures, seminars and tutorials.

Evaluation: 2 seminars, 2 class tests and 2 essays.

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 pre-registration period in the spring.

Content: In this course the student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate his supervisor, but advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed:

By the last day of Term the previous Spring a brief statement of the area of the project, signed by the Supervisor is to be sent to Professor 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.

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

Course description: English CI5Y counts as a full course in the student's programme, and is one of three alternatives in the new category 9 of the Major Programme. It will take the form of a reading course under the direction of an adviser.

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

Standing in English CI5Y 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.

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

Course description: A study of the short novels and stories of D.H. Lawrence.

Instructor: M.S. Tait

Session: Winter Day

Content: A detailed study of characteristic themes and techniques in St. Mawr, The Fox, The Virgin and the Gypsy, The Captain's Doll, and other stories. Emphasis is upon the ways in which Lawrence's essential ideas are communicated through style, structure, characterization, and imagery.

Teaching Method: Combined Lecture and Seminar.

Evaluation:
1 essay
1 seminar report
1 end of term test

Fine Art

Discipline Representative: G. Scavizzi

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, forms, 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 improve 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 - \$30 for materials for each half course.

Students interested in Fine Art should also refer to:

GRKB11S Homer: Odyssey
HISA01Y The European World: An Introduction to History
HUMB08Y Orpheus: The Quest of Beauty
[HUMB22F The Age of Pericles]
HUMB23S The Age of Augustus
HUMB25F The Age of Homer
HUMB71Y Introduction to Cinema
PHLB03F Philosophy and Art

FARA04Y Art History: An Introduction

Course description: A chronological study of the cultural, political and aesthetic forces at work in architecture, sculpture and painting. The course will concentrate on a number of important monuments, artists and trends of Western Art from Ancient Greece to the Nineteenth Century. Recent contributions to methodology, art theory, and artistic media will be discussed.

Instructor: Mrs. M.C. Shaw

Session: Fall Day

Course Content: This term involves a highly selective analytical survey of art from Palaeolithic down to Roman Imperial times (from c. 25,000 B.C. to the 4th century A.D.). The purpose is not to provide a comprehensive picture of products of human artistic activity, but rather to try to explore some of the basic trends, styles, techniques, the reasons for and functions of art through the ages. Prehistoric Europe, Pharaonic Egypt, the Sumerian, Babylonian, Persian Civilizations of W. Asia, Minoan, Aegean, Mycenaean and Classical Greece, as well as the vast Roman World will constitute areas and eras from which representative examples of sculpture, painting, and architecture will be chosen for analysis and evaluation.

Teaching Method: Lectures illustrated by slides.

Evaluation: 1 essay

One 1 hour examination

1 Final examination (on material from Fall and Spring Terms)

Instructor: L. Carney

Session: Spring Day

Content:

The second term will begin with a discussion of the International Style ca. 1400 and will then focus on fifteenth-century art in both Italy and the North. The work of major painters, sculptors and architects from the Renaissance, Mannerist, Baroque and Rococo periods will be discussed. As France assumes a central artistic position in Europe in the eighteenth century, the highlights of French painting from the Revolutionary era and through the nineteenth century will be studied.

Teaching method:

Two one-hour slide lectures and a one-hour tutorial each week. Visits to the Art Gallery of Ontario and the Royal Ontario Museum.

Evaluation:

One term examination to be held during the examination period.
One essay analysing a work of art from the AGO or ROM.
Occasional brief tutorial assignments.

FARA70F Two-and Three-Dimensional Design

Exclusion: (FARB10)

Limited enrolment: Two groups of 20 each

Course description: FARA70 and FARA71 are introductory to all studio courses; their primary aim is to help students cultivate a familiarity with basic terms, concepts and principles in visual design.

Instructor: To be appointed

Further information about this course will be available in the Summer.

FARA71S Colour

Exclusion: (FARB10)

Limited enrolment: Two groups of 20 each.

Course description: An analysis of the properties, perception, and interaction of colour.

Instructor: To be appointed

Further information about this course will be available in the Summer.

FARB20Y The Arts in Canada: 1670 to Present

Corequisite: FARA04

Course description:

This course will examine the problem of Colonial art, with concentration on the history of painting. The establishment of a Quebecois tradition of painting, and of an independent Canadian landscape school, will be considered in the context of the artists' contacts with European centres, and the history of patronage in Canada. Contemporary problems with U.S. influence and recent Canadian art will also be included.

Instructor: L. Carney

Session: Winter Day

Objectives:

To help students develop a perspective on painting and sculpture in Canada as a reflection of the Canadian identity. To increase familiarity with works which are so readily accessible to the Toronto student and to encourage individual critical awareness of the painting and other art that is happening around us.

Teaching method:

A two-hour lecture each week, with class participation encouraged. Visits to the McMichael Canadian Collection, Art Gallery of Ontario and possibly to important exhibitions at other galleries.

Evaluation:

Term examination in each examination period. One essay each term.

FARB21F Archaic Greek Sculpture (700-490 B.C.)

Prerequisite: One Fine Art History term course or GRHB01

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

Instructor: M. Shaw

Session: Winter Day

Evaluation: 1 essay

2 1-hour examinations

FARB25 F High Gothic Architecture

Corequisite: FARA04

Course description: A study of the evolution of Gothic style with particular attention to the cathedrals of Chartres, Amiens and Rheims. The course will also deal with the decoration of the Gothic cathedral and with elements of mediaeval iconography.

Instructor: To be appointed.

Session: Winter Day

Further information about this course will be available in the Summer.

FARB31S Classical Greek Sculpture (490-300 B.C.)

Prerequisite: One Fine Art History term-course.

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

Instructor: M. Shaw

Session: Winter Day

Evaluation: 1 essay
2 1-hour examinations

FARB35 S Gothic Painting

Corequisite: FARA04

Course description: The course will focus on the mature phase of Gothic in Italy and primarily on the achievements of the schools of Siena and Florence between 1300 and ca. 1350. The following painters will be studied: Duccio, Giotto, Simone Martini, Ambrogio and Pietro Lorenzetti.

Instructor: To be appointed.

Session: Winter Day

Further information about this course will be available in the Summer.

FARB36 P Expressionist Trends in Western Art from Van Gogh to Jackson Pollock

Corequisite: FARA04

Course description:

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

Instructor: L. Carney

Session: Winter Night

Content:

"What I am after, above all, is expression....the purpose of a painter must not be conceived as separate from his pictorial means, and these pictorial means must be the more complete, the deeper is his thought. I am unable to distinguish between the feeling I have for life and my way of expressing it" (Matisse). Expressionism is a crucial tendency in modern painting which dominates the work of many important European and American painters. The course will attempt to define Expressionism through their paintings and writings and to demonstrate their influence on twentieth century art as a whole.

Teaching method:

Two-hour slide lecture each week, class participation encouraged.

Evaluation: Term essay and final examination.

Bibliography: Writings by the artists themselves will be stressed. Critical evaluation of literature on each artist will be provided.

FARB39Y Baroque in Italy and France

Corequisite: FARA04

Course description: Art and architecture in Italy and France from c. 1600 to c. 1750. The first part of the course will deal with the birth and the development of Baroque style in Rome (Bernini and Borromini in architecture; Bernini and Algardi in sculpture; Caravaggio A Carracci, Poussin and Lorrain in painting). The second part will deal mostly with French artists of later time (J.H. Mansart in architecture; Watteau in painting) but will also consider German and Austrian Rococo architecture, and some Venetian painters (G.B. Tiepolo, Canaletto).

Instructor: G. Scavizzi

Session: Winter Day

Teaching Method: Lectures

Evaluation: 3 one hour examinations, one essay of 12/15 pages.

FARB43Y Renaissance in Europe 1400-1600

Prerequisite: FARA04

Exclusion: FARB03, FARB26

Course description: A survey of architecture, sculpture and painting in Europe with primary emphasis on Italy and the Low Countries in the years 1420 to 1520.

Instructor: G. Scavizzi

Session: Winter Evening

Teaching Method: Lectures

Evaluation: 3 one hour examinations, one essay of 12/15 pages.

FARB70F Introductory Drawing

Prerequisite: FARA70; FARA71

Limited Enrolment: 20

Course description: The 'scribble'; iconography of expressive drawing. Students are asked to consider what is intrinsic to the art of drawing, the media and tools traditionally and presently used, and the draftsman's graphic intentions.

Instructor: S.A. Amenta

Session: Winter Night

Type of Course: An introductory course for fine arts students wishing to acquire a familiarity and experience with various drawing media, techniques, and approaches.

Objectives: The aim of this course is to cultivate a sensitivity to line and graphic qualities. Students are expected to think graphically on paper, and to become aware of their body as a drawing instrument.

Content and Method: Scribbling, still-life and life-drawing exercises. Students are responsible for keeping a sketchbook and submitting a number of finished drawings at the end of the course.

Bibliography:

Hill, E. The Language of Drawing, Englewood Cliffs, N.J.: Prentice-Hall, 1966.

Chaet, B. The Art of Drawing, Holt, Rinehart & Winston, 1970.

Klee, P. Pedagogical Sketchbook, New York: Praeger, 1969.

Goldstein, N. The Art of Responsive Drawing, Englewood Cliffs: Prentice-Hall, 1973.

Evaluation: Based on final portfolio submission, participation in class critiques, and sketchbook marks.

FARB72F Introduction to Printmaking
(Screen Process Printing)

Prerequisites: FARA70; FARA71

Corequisite: FARB70

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.

Content: The course will include lectures and demonstrations of the technical problems of screen process printing and lectures on the processes of etching and lithography. The student will be expected to conceive and print several serigraphs and to take part in group critiques 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.

Evaluation: Based on 1. Work attitudes
2. Finished work
3. Written Analysis of prints viewed at private and public galleries.

Additional comments: \$30.00 Lab Fee. Limited enrolment: 15.

FARB74S Intermediate Drawing

Prerequisites: FARB70

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

Instructor: D. Holman

Session: Winter Day

Objectives: To give the fine arts students an opportunity to expand their knowledge of the art of drawing.

Content & Method: 3 hrs. per week of studio work, with group and personal criticism 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, participation in class and sketchbook marks.

FARB75Y Introduction to Painting

Exclusion: (FARB71)

Prerequisite: FARA70; FARA71; permission of instructor

Limited enrolment: 20

Course description: Students will participate in seminars/presentations on historical methods and materials of the artist; a number of paintings in chosen media are also required. Group presentations, critiques, experimentation, and research are combined in this introductory course on painting.

Instructor: S.A. Amenta

Session: Winter Day

Type of Course: For fine arts students wishing to acquire a familiarity with the historical development of painting, and to develop an appreciation for the intrinsic qualities and expressive potentials of the various media.

Content: Seminar-presentations; group research; experimentation with a chosen medium. A number of works for critique and evaluation must be submitted along with a final group report.

Method and Evaluation: Students are responsible for a group presentation and report. Individually, students will work on an appropriate number of works in a given medium, and present these for critique and evaluation along with the group term paper.

Bibliography: available from Mrs. B. Gover in R-5111A.

FARB82F Introduction to Lithography

Prerequisite: FARA70; FARA71; FARB72 or Permission of Instructor

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

Instructor: D. Holman

Session: Winter Evening

Objectives: To introduce the student to Stone Lithography.

Content: The course will include several lectures explaining the technique and artistic nature of Stone Lithography, along with working demonstrations of the processes involved. 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 \$30.00

FARB83S Intermediate Lithography

Prerequisite: Normally "B" standing in FARB82

Corequisite: FARB74

Course description: An extension of FARB82. Limited enrolment: 10.

Instructor: D. Holman

Session: Winter Evening

Objective: To further explore the art of stone lithography in multi-colour printing.

Content: The same as FARB82F

Method: 3 hrs. per week, studio work, lectures, working demonstrations. Critiques 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 \$30.00. Limited enrolment. Permission of instructor required.

FARB90F) Supervised Studies in Studio: Intermediate Level
FARB91S)

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

Course Description: These courses may be in any of the fields of drawing, painting and printmaking. Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for students who can demonstrate the need to pursue further study in any of the above areas. Students are also required to meet with instructors on a regular basis for critiques of work in progress. Limited enrolment: 3.

Instructors: S.A. Amenta/D. Holman Session: Winter Day

Content and Method: To be planned in co-operation with instructors.

Evaluation: Evaluation is conducted by both instructors with participation of the student.

FARC02F Supervised Reading
C03S

Session: Winter Day

Prerequisite: At least two B-level courses in Art History; permission of Instructor must be obtained by first week of classes. A reading knowledge of a second language is recommended.

Interested students should contact Professor Scavizzi.

FARC09F Studies in the High Renaissance I

Prerequisite: FARB03Y or FARB26Y or
Corequisite: FARB43Y

Course description: Leonardo's art from the apprenticeship in Verrocchio's Workshop to the Mona Lisa. The study will include Leonardo's drawings as well as his theoretical work on Painting.

Instructor: G. Scavizzi Session: Winter Day

Teaching Method: Lectures

Evaluation: 1 one hour examination, one essay of 10/12 typed pages.

FARC21Y Advanced Studio: Individual Study in Painting

Prerequisite: 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 maturing 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 enrolment: 5.

Instructor: S.A. Amenta & 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.

FARC22Y Advanced Studio: Individual Study in Printmaking

Prerequisite: Permission of Instructor must be obtained by first week of classes. Limited enrolment: 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.

FARC24F) Independent Studies in Studio: Advanced Level
FARC25S)

Prerequisites: FARA70, FARA71: at least one B-level course in the field of study: a portfolio demonstrating proficiency in this field: permission of instructors which is based on the evaluation of the portfolio.

Course Description: These courses may be in any one of the fields of drawing, painting and printmaking. Limited enrolment: 3 students

Instructors: S.A. Amenta/D. Holman Session: Winter Day

Students are required to submit a portfolio along with their proposal outlining intended research. These courses are intended for students who can demonstrate the need to pursue independent study in one of the above areas. Students are also required to meet with Instructors at appointed times; however they are expected to work on their own most of the time.

Content and Method: To be planned in co-operation with Instructors.

Evaluation: Evaluation is conducted by both Instructors with participation of the student.

French

Discipline Representative: L.E. Doucette

The courses offered in French are designed primarily for students with Grade 13 French who wish to continue their study of the language and of the literature of France and French Canada. Students without Grade 13 French or an equivalent background who wish to qualify for FREA01, or simply to begin their study of the subject, will find opportunities in FREA00 (Winter Session), and in the program of the Summer Language Institute. FREA01 serves to consolidate the previous experience of students in the understanding and use of the language.

Providing prerequisite requirements are met, courses may be combined in a variety of ways; however, students intending to pursue a Major Programme in French are invited to consider taking both FREA01 and FREA02 in their first year, then to choose courses from within the following groups: (1) the main trends of French and French-Canadian literature; (2) the genres: poetry, theatre and novel in various periods; (3) advanced language; (4) language practice courses.

Students should also consult the Major Programme entries under French and under Modern Languages and Literatures in the College Calendar.

FREA00Y Introductory French

Prerequisite: Permission of Instructor

Course description: Intensive laboratory and class-room instruction in written and oral French, designed to enable students without the prerequisite for FREA01 to acquire the competence needed for entrance to FREA01 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 take an entrance examination before being admitted. It is anticipated that only those students with some previous experience in French will be accepted. Students who demonstrate the necessary skills in this examination may be admitted directly to FREA01.

Instructor: t.b.a. Session: Winter Day

Content: Basic skills in comprehending and using spoken and written French will be emphasised.

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 after 1 June, 1977.

Evaluation: The final mark is based on performance in a Final Examination (3 hrs), 1/3 total; and on a Term mark 2/3 total, which includes a 1 hr test in December.

Corequisites: Both courses have to be taken concurrently in the Summer Language Institute.

Course descriptions: FREA00B: This course is designed to enable students to begin or to continue their study of the French language with a view to entering FREA01 in a subsequent year. Intensive laboratory and class-room instruction in written and oral French. The course is not normally open to students with Grade 13 French.

FREA04S: Intensive practice in the spoken language through controlled situational oral work and discussion groups.

Instructor: L. Mignault (co-ordinator) Session: Summer Day
(Summer Language Institute)

Content and Teaching Approach: The unique approach used to teach the basic three-hour daily class is designed to accelerate the learning process, improve and facilitate short and long-term memorization and free students of inhibitions frequently associated with language study. Students are expected to acquire mastery of approximately 2000 words and expressions necessary for effective communication in ordinary circumstances of life along with the basic syntax and grammar of the language. In order to support these objectives, a number of factors are present: a different class-room environment; a particular type of rapport between the instructor and the students as well as among the students themselves, calling for imagination and creativity; use of techniques which stimulate the activity of certain subconscious and psychological elements involved in the learning process. The approach presupposes that the skills necessary for acquiring mastery of a second language are best developed if based on the foundations of oral speech. Written work is therefore introduced progressively and to the extent that students are ready for it.

FREA04 is designed to reinforce and complement the learning which takes place in A00. A number of diversified recreational, creative and cultural activities are offered among 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 throughout the course. Final grades, based on progress and performance of students are assessed 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.

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI brochure carefully. These courses can also be taken on a non-credit basis.

Prerequisites: Permission of Instructor

Course description: This course is designed to enable students to begin or to continue their study of the French language with a view to entering FREA01 in a subsequent year. Intensive laboratory and class-room instruction in written and oral French. The course is not normally open to students with Grade 13 French.

Note: Students wishing to take this course will be required to take an entrance examination before being admitted. It is anticipated that only those students with some previous experience in French will be accepted. Students who demonstrate the necessary skills in this examination may be admitted directly to FREA01. Students with no previous experience in French are strongly advised to take FREA00B and FREA04S in the Summer Language Institute.

Instructor: F. Mugnier. Session: Winter Day

Content: Basic skills in comprehending 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 after 1 June, 1977.

Evaluation: The final mark is based on performance in a Final Examination (3 hours, 1/3 total; and on a term mark 2/3 total, which includes a 1 hour test in December.

Prerequisite: Grade 13 French, or at least 70% in FREA00, or equivalent. Students may qualify for admission to FREA01 by showing sufficient competence in the FREA00 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.

Instructors: J. Curtis and others Session: Winter Day

Other Recommended Courses: For students planning to major in French, FREA02.

Content 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.

FREA01B Language Practice
FREA05S Elementary Conversation II

Prerequisite: Grade XIII French or at least 70% in FREA00.

Corequisites: Both courses have to be taken concurrently in the Summer Language Institute.

Course descriptions: FREA01B: 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.

FREA05S: Intensive practice in the spoken language through controlled situational oral work and discussion groups.

Instructor: L. Mignault (co-ordinator) Session: Summer Day
(Summer Language Institute)

Content and Teaching Approach: The unique approach used to teach the basic three-hour daily class is designed to accelerate the learning process, improve and facilitate short- and long-term memorization and free students of 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, calling 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 as the course progresses.

FREA05 is designed to reinforce and complement the learning which takes place in A01. A number of diversified recreational, creative and cultural activities are offered among 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 throughout the course. Final grades, based on progress and performance of students are assessed 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.

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. These courses can also be taken on a non-credit basis.

FREA02Y Introduction to Literary Analysis

Prerequisite: Grade 13 French or equivalent

Corequisite: FREA01

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 nineteenth and twentieth centuries.

Instructors: L.E. Doucette, Session: Winter Day
P. Moes.

Content: 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 expliquée", class discussion, student presentations of specific topics.

Bibliography: For an official list of required texts consult the College Bookstore. In 1976-77 the following were studied:

Alain-Fournier Le grand Meaulnes
Anouilh Antigone
Balzac Short Stories
Dufau & D'Alélio (eds.) Découverte du poème
Ionesco Three Plays
Mauriac Thérèse Desqueyroux
Musset Fantasio

Evaluation: At least one written assignment each term (one a formal essay) and two term tests. There is no final examination. The weighting of assignments to be determined in consultation with the students.

FREB01B Language Practice
FREB04S Intermediate Conversation I

Exclusion: FREB21
Prerequisite: FREA01

Corequisites: In the Summer Language Institute, both courses have to be taken concurrently.

Course descriptions: FREB01B: A continuation of first-year language work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.

FREB04F: Intensive practice in the spoken language through controlled situational oral work and discussion groups. Attention will be given to the comprehension of such major regional variants as that of the Province of Québec.

Instructor: A. Thomas Session: Summer Day
(Summer Language Institute)

Organization: The three-hour daily class focusses attention on specific skills and intensive practice in each of them.

These are reinforced and complemented by participation to a prescribed minimum number of diversified 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: FREB01: Class participation: 20%.
Regular written assignments (grammar and composition): 40%.
In-course tests and final oral and written examination: 40%.

FREB04: Participation in prescribed activities: 20%.
Evaluation by individual instructors: 40%.
Final oral exam: 40%.

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. These courses can also be taken on a non-credit basis.

FREB01Y Language Practice

Prerequisite: FREA01

Course description: A continuation of first-year language work, including grammar, composition, oral practice, readings and language laboratory work. Not normally open to native speakers of French.

Instructors: J. Bancroft and staff Sessions: Winter Day
Winter Evening

Content: FREB01Y will deal with problems of fluency and pronunciation in speaking and reading, problems of grammar and general composition in writing. Class work will involve oral practice; readings; work in vocabulary-building; composition and basic stylistic analysis. Classes will meet three hours per week (except for the evening section) and will be arranged to cover several aspects of language work.

Teaching Method: Lectures, tutorials and laboratory work.

Evaluation: Several tests and/or examinations; oral assignments; compositions; grammar exercises; class participation.

Additional Comments: Attendance at class and active participation when present are strongly urged for this type of course.

FREB24Y French Thought and Literature in the Age of Enlightenment (1715-1789)

Prerequisite: FREA01

Course description: This course provides a general introduction to French literature of the eighteenth century and the philosophical concepts which so often inspired it.

Instructor: P. Moes Session: Winter Day

Content: Representative works from all the major authors of the period (e.g. Montesquieu, Voltaire, Rousseau, Diderot, Beaumarchais, Prévost, et al.) will be examined. Because the course deals with "a literature of ideas", it will range from such largely philosophical works as Rousseau's *Discours sur l'inégalité* to primarily "literary" works such as *Manon Lescaut* by Prévost and *le Barbier de Séville*, by Beaumarchais. Special consideration will be given to the importance of the Natural Sciences in shaping the philosophical pre-occupations of the Enlightenment.

Teaching Method: Lectures, discussion periods, student presentations.

Bibliography: For required texts consult the college bookstore, for additional reading consult the college library.

Evaluation: The final mark is based on two essays, oral and written reports as time permits, and two one-hour tests, one each term. Weighting to be determined in consultation with the students. There is no final examination.

Prerequisite: FREA01

Course description: Analysis of "romanticism" in 19th century literature, with attention to the main writers of the period.

Instructor: G. Trembley Session: Winter Day

Content: After an introduction to the origins of French romanticism, the student will study a) the theories of romanticism as expressed by the romanticists themselves b) romantic prose c) selected dramas and d) the main poets of the period.

Teaching Method: Two hours per week conducted in French as seminars.

Evaluation:

4 essays (of which 2 at least in French).

2 one-hour examinations.

Participation in class discussions.

Prerequisite: FREA01

Course description: A study of prose fiction in Quebec in the contemporary period. Course intended for the general student of French as well as for specialists. Apart from introductory lectures during the first week or two of classes, this course follows a discussion/seminar format. Students are strongly urged to take the companion course, B36F, as well.

Instructor: L.E. Doucette Session: Winter Day

Content: Detailed analysis and discussion of representative works of prose fiction from the contemporary period, which are chosen to illustrate major thematic and stylistic currents in the French-Canadian novel since the Second World War. Some knowledge of Canadian history in this period would be helpful.

Evaluation: Methods of evaluation will be established by mutual consent. Any combination of the following would be acceptable: Final written exam; oral exam; essay(s) or research paper(s); oral presentation(s). Other proposals also considered. Students whose attendance has, in the instructor's opinion, been less than satisfactory, may have to sit a special final exam.

Bibliography: When last taught, the reading list for B37S was: Y. Thériault, Aaron; A. Langevin, *Le Temps des hommes*; J. Simard, *Mon Fils pourtant heureux*; M.-C. Blais, *Une Saison dans la vie d'Emmanuel*; J. Godbout, *Salut, Galarneau!*; R. Carrier, *Floralie, où es-tu?* There will undoubtedly be changes; please check the Bookstore list.

Prerequisite: FREA01

Course description: A study of French-Canadian novels from the mid-19th century to the end of the Second World War. Course intended for the general student of French, as well as for specialists. Apart from introductory lectures during the first week or two of classes, this course follows a discussion/seminar format.

Instructor: L.E. Doucette Session: Winter Day

Content: Much more than its companion course, B37S (which students successfully completing B36F are strongly urged to take), this course deals with historical, cultural and social developments in French Canada. Some knowledge of Canadian history in the period in question would, therefore, be very useful.

Evaluation: Methods of evaluation will be established by mutual consent. Any combination of the following would be acceptable: Final written exam; oral exam; essay(s) or research paper(s); oral presentation(s). Other proposals also considered. Students whose attendance has, in the instructor's opinion, been less than satisfactory may have to sit a special final exam.

Bibliography: When last taught (1975-76) the reading list for B36F was: L. Conan, *Angéline de Montbrun*; L. Hémon, *Maria Chapdelaine*; A. Laberge, *La Scouine*; F.-A. Savard, *Ménard, maître-draveur*; Ph. Panneton, *Trente arpents* and G. Roy, *Bonheur d'occasion*. There will probably be a few changes to this list, so please check with bookstore.

Exclusion: None

Prerequisite: FREB01 or equivalent language ability.

Corequisite: None

Course description: A discussion of performing techniques combined with practical work in staging and acting modern French plays. This will result in the production of at least one play.

Instructor: t.b.a. Session: Summer Day
(Summer Language Institute)

Content and Teaching Method: Several contemporary plays will be studied from the point of view of producing and acting. Various theories and approaches to staging and acting will be used for discussion. The class will be conducted as a combination of seminar discussions and practical work.

Evaluation: t.b.a.

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. These courses can also be taken on a non-credit basis.

FREB40F The Poetry and Prose of the Golden Age

Prerequisite: FREA01

Course description: A study of non-dramatic literature of the 17th Century with attention to works by Malherbe, Descartes, Pascal, Boileau, La Fontaine, La Bruyère, La Rochefoucauld, Mme. de Lafayette and others.

Instructor: J. Curtis Session: Winter Day

Recommended companion course: FREB41S

Content and Method: Brief lectures and informal discussion (in French) acquaint students with a variety of short texts representing the main writers and thinkers of the Classical period, who influenced much of subsequent French thought and literature. Areas studied include poetry, social and philosophical commentaries, and early forms of the French novel. Two hours a week.

Evaluation: A final test, at least one written assignment, other written or oral work as seems desirable.

FREB42F General History of the French Language

Prerequisite: FREA01

Course description: Topics will be chosen for study from the general history of French, from its origins in Latin to the present, including reference to social and regional variations of the standard language as well as the influence of other languages on its development. Students specializing in French language or literature who select this course are urged to take FREB43 as a companion course.

Instructor: John Kirkness Session: Winter Evening

Content: In addition to a general review of the issues raised in Chaurand's text (see bibliography), special attention in 1977 will be given to the influence of other languages on the development of French, with particular reference to lexical borrowings.

Teaching Method: The class will normally meet once a week for two hours for the presentation and discussion of the topics chosen for study. Active student participation is expected.

Evaluation: Procedures will be discussed at the first class meeting. Required are a research paper and a review test on specified readings. No final examination.

Bibliography: Prescribed texts: J. Chaurand, Histoire de la langue française; P. Guiraud, Les mots étrangers (both in Que sais-je? series).

FREB43S The French Language in Canada

Prerequisite: FREA01

Course description: Attention will be given primarily to the expansion of French abroad, special emphasis being laid on the language in North America, particularly Canada. Students specializing in French language or literature who select this course are urged to take FREB42 as a companion course.

Instructor: John Kirkness Session: Winter Evening

Content: As well as a general review of the history of French in North America, special attention in 1978 will be given to the influence of English and to current issues in 'the status of French in Canada'.

Teaching Method: As for FREB42FN

Evaluation: As for FREB42FN

Bibliography: Langue française, No. 31 (Sept 1976): "Le français au Québec".

FREB41S The Playwrights of the Golden Age: Corneille, Molière and Racine

Prerequisite: FREA01

Course description: A study of the development of classical tragedy and comedy in the 17th century, with emphasis on themes and dramatic structure as seen through the major plays of the period.

Instructor: J. Curtis Session: Winter Day

Recommended companion course: FREB40F

Content and Method: The outstanding figures of French Classicism, as of French dramatic literature, are Corneille, Racine and Molière. The student is expected to read two plays by each author, one play by each providing most of the material for class discussion on themes, language, comic and tragic forms. Classes are conducted in French. Two hours a week.

Evaluation: A final test, at least one written assignment, other written or oral work as seems desirable.

FREB48Y Theoretical and Practical Phonetics

Prerequisite: FREA01

Course description and Content: This course will comprise the following: (1) general principles of French phonetics, phonetic readings, phonetic transcription, corrective pronunciation, the study of the relationship between spelling and pronunciation; (2) analysis and discussion of recordings used in the language laboratory, with use of tapes in the classroom; (3) audition of a wide range of recorded materials: genres, styles, social and regional variants.

Instructor: G. Trembley Session: Winter Day

Teaching Method: Two hours per week and laboratory work, plus recordings made by the students themselves.

Evaluation:

2 written tests in the first semester.
Evaluation of students' tapes.
1 final one-hour written examination.
Final oral examination.
Participation in class discussions.

FREB49Y The Twentieth Century: The Search for Identity

Exclusion: (FREB35)

Prerequisite: FREA01

Course description: A study of the social, political and philosophical ideas of such writers as Camus, Sartre, Malraux, Beckett, Genêt and Saint-Exupéry.

Instructor: W. J. Bancroft Session: Winter Day

Content: This course will study those 20th century French novelists whose primary concern is with social and philosophical ideas. After a general outline, both sociological and historical, of the French novel and a discussion of the various methods by which a novel may be analyzed, attention will focus on the thematic content of specific texts by writers such as Camus, Sartre and Malraux. Novels will not necessarily be studied in chronological order, although some historical background will be provided.

Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking FREB49Y might wish to consult a general account of the 20th century French novel, e.g., *An Age of Fiction* by Germaine Brée and Margaret Guiton. It might be useful, also, to have a general view of 20th century French literature (see, e.g., P.H. Simon, *Histoire de la littérature française au XXe siècle*).

Evaluation: There will be one major essay and possibly an additional classroom assignment per term. There will also be one examination or take-home test per term. Students will be graded on the essays, tests, classroom assignments and class participation.

FREC01B Language Practice
FREB05S Intermediate Conversation II

Prerequisite: FREB01 (except for francophone students)

Corequisites: In the Summer Language Institute, C01B must be taken concurrently with either B05F or B39F.

Course descriptions: FREC01B: This course is a continuation of FREB01 and includes reading, grammar, composition, stylistic exercises, discussion and/or debates.

FREB05F: A continuation of FREB04F.

Instructor: t.b.a. Session: Summer Day
(Summer Language Institute)

Content: The intensive oral and written work conducted in FREC01B is reinforced and complemented by participation to a prescribed minimum number of recreational, creative and cultural activities which are scheduled afternoons, evenings and week-ends throughout the session (an average of 2 additional hours per day).

Evaluation: FREC01B: 20% class participation; 40% written and oral assignments; 40% in course tests and final written and oral exam.

FREB05F: 20% participation to prescribed activities;
40% evaluation by individual instructors;
40% final oral exam.

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. These courses can also be taken on a non-credit basis.

FREC02F Supervised Reading

C04F

C06F

C03S

C05S

C07S

C90Y

Prerequisites: One B-level course in French, excluding FREB11 and FREB12; permission of instructor.

Course description: These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, methods of approach and evaluation. The material studied should bear some relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses.

Interested students should contact Prof. L.E. Doucette.

FREC01Y Language Practice

Prerequisite: FREB01 or FREB21

Course description: This course is a continuation of FREB01Y and includes reading, grammar, composition, stylistic exercises, discussion and/or debates.

Instructors: G. Trembley/F. Mugnier Session: Winter Day

Content: Formal grammar will be studied in Darbelnet's "Pensée et structure". "Contes modernes" and Bryan-Duché's "Pour parler" will be used for discussions and compositions.

Teaching Method: Three hours per week conducted as seminars.

Evaluation:

8 compositions.

1 oral test.

2 written tests.

2 one-hour examinations.

Participation in class discussions.

FREC09Y Problems in Translation

Exclusion: (FREC08)

Prerequisite: FREB01 or FREB21

Course description: A comparative study of expression in English and French, including practice in translating and analysis of selected examples of the translator's art.

Instructor: J. Curtis Session: Winter Day

Content and Method: Basic terminology and concepts of comparative stylistics will be studied in *Stylistique comparée du français et de l'anglais* by Darbelnet and Vinay (Beauchemin; text and workbook). On the practical side, there will be translating and discussion of passages in English and in French representing various styles and levels of expression: formal, colloquial, technical, literary, journalistic. Two hours a week.

Evaluation: Class preparation, term tests, written assignments including a major project in the second term.

FREC22Y Introduction to Medieval French Language and Literature

Prerequisite: One B-level course in French, excluding FREB11 and FREB12

Course description: An introduction to old French language and the study of representative works in the following genres: epic, courtois and bourgeois literatures.

Instructor: L.E. Doucette Session: Winter Day

Content: The first half-semester will concentrate heavily on the language aspect of this period. As the students' skills sharpen, we shall move rapidly towards a more participatory format, with more and more attention paid to content, as opposed to form.

Evaluation: Methods of evaluation will be determined, in pseudo-democratic fashion, within the first few weeks of term. The instructor claims no unreasonable bias as to the "best" way of evaluating the individual's performance and progress. There will, however, be an examination (value to be decided by mutual consent) on the language aspect of the course, towards the end of first semester.

Bibliography: Last time this course was taught, we used the following texts: Chrétien de Troyes, *Erec et Enide*; Classiques Larousse, *Poésie lyrique au moyen âge* (2 vols); Villon, *Poésies choisies*; Maistre Pierre Pathelin; et le texte général: *Littérature française du moyen âge*, edited by Messrs Groulx, Emond, Murail. There will probably be changes to this list: check with your friendly local bookstore for reading list this spring.

FREC40Y Modern French Poetry from Baudelaire to Valéry

Prerequisite: One B-level course in French literature (at least), excluding FREB11 and FREB12

Course description and Content: A study of such major 19th century post-Romantic poets as Baudelaire, Gautier, Nerval, Verlaine, Mallarmé and Rimbaud. 20th century poets will include such major figures as Apollinaire, Péguy, Claudel and Valéry. Emphasis will be placed on the characteristic aspects of French poetry and on poetic analysis rather than on historical development.

Instructor: W. J. Bancroft Session: Winter Day

Teaching Method: Although a general history of French poetry will be provided in the introduction to the course, classes will be devoted to a detailed analysis of selected poems by major late 19th century and early 20th century French poets. The proportion of lectures to tutorials will depend, in part, on the size of the class but the general method followed will be lectures, plus class discussions.

Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking FREC40Y might wish to consult a suitable anthology of French poetry such as *The Oxford Book of French Verse*.

Evaluation: There will be one major essay per term, plus classroom assignments; there will also be one term examination or take-home test per term. Students will be graded on essays, tests, assignments and participation in class.

Geography

The geography programme includes courses on diverse topics having to do with the development of landforms, the evolution and experience of urban and rural landscapes, the management of natural resources, and the spatial expression of economic processes. It therefore offers students a variety of potential themes which can be followed either separately or in combination towards a B.A. or a B.Sc. degree.

The geography curriculum is designed in terms of course sequences and combinations that will provide students both with a broad background in the discipline and with a sound basis for a career, whether in planning, teaching or various government agencies and departments. While each student should, in consultation with the faculty, develop his or her own programme, the following sequences are recommended. Please note that the order in which the courses are listed here is the order in which we intend these courses to be taken. Some suggestions for relevant courses in other disciplines are also made; there are many other relevant courses in Geography and other subjects offered on the St. George Campus.

Sequence A: Physical Geography

A04, A05
B02, B21, B22, B03, B19, B18, B07, B15
C06, C15, C23, C01, C05, C07, C12
GLGA01, NSCB02.

Sequence B: Urban/Economic Geography

A04, A05
B02, B21, B22, B05, B13, B20
C03, C04, C13, C18, C01, C07, C12
ANTB31, ECOB47, SOCB05.

Sequence C: Landscape/Regional Geography

A04, A05
B21, B22, B05, B13, B17, B19, B23
C04, C14, C17, C01, C07, C12
GGR359F (St. George).

Sequence D: Environmental and Resource Geography

A04, A05
B02, B21, B22, B01, B03, B19, B18
C15, C21, C23, C01, C07, C12
NSCA02.

Sequence E: A General Programme in Geography

A04, A05
B21, B22, B01, B03 or B19, B05 or B13, B17
C12, C13, C14.

Supervisor of Studies: E.C. Relph

GGRA04Y

The Nature of Human Geography

Exclusions: (GGRA08); (GGRA09)

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 "objective" 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.

Instructors: P.W.Cave/M.Bunce Session: Winter Day

Content: Specific topics include: objectives and orientation of human geography; changing philosophical basis; environmentalism, regionalism and spatial analysis as related, alternate approaches; regional description; natural regions; regional science; interpretive themes in the study of regional landscapes; basic theory of land use, location and human interaction; some elementary cartography and descriptive statistics.

Teaching Method: Lectures and seminar work.

Evaluation: The course will have a final examination and several term assignments for the seminar/tutorial sessions. Precise details will be arranged at the first meetings of the course.

GGRA05Y

Introduction to Physical Geography

Exclusions: (GGRA06); (GGRA07); (GGRA08); (GGRA09)

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.

Instructors: R.Bryan/A.Price Session: Winter Day

Content: As above.

Teaching Method: Lectures, laboratories.

Evaluation: To be announced in 1st week of lectures.

GGRB01Y Geography of Resources

Prerequisites: GGRA04 and GGRA05 (for 1977-78 only, either will suffice.)

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-agricultural resources, and finally (4) an examination of the use/misuse and abuse of resources.

Instructor: J.Dworkin Session: Winter Day

Content: Resource management will be examined using three broad perspectives: the economic, the ethnologic, and the ecological approaches. Specific resource issues include: water and air pollution, energy, solid waste management, environmental hazards, conservation, wildlife management, population, public participation, 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.

GGRB03Y Climatology

Prerequisites: GGRA04 and GGRA05 (for 1977-78 only, either will suffice.)

Course Description: The main aspects of Physical Climatology and the dynamics of the Earth's atmosphere. The second half of the course concentrates on Applied Climatology and atmospheric pollution and urban climates. Tutorial work includes the use of simple climatic instruments.

Instructor: C.Sparrow Session: Winter Day and Evening.

Content: As in course description above.

Teaching Method: Lectures, laboratories, field trips.

Evaluation: To be announced in 1st week of lectures.

GGRB02Y Analytical and Quantitative Methods in Geography

Exclusions: ECOB11; PSYB07; MATB52, MATB57

Prerequisites: GGRA04 or GGRA05.

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, evaluation of spatial patterns, and regionalization. Elementary computer programming is also included.

Instructor: J.R.Miron Session: Winter Day

Evaluation: To be announced.

GGRB05Y Urban Geography

Prerequisites: GGRA04 and GGRA05 (for 1977-78 only, either will suffice.)

Course Description: An introduction to the characteristics and major problems of Canadian cities, in three main sections: urban theory, the development of Canadian cities and urban problems. Topics include urbanization and processes of urban growth; systems of cities; urban form and design; spatial structure of land uses; distinctive socio-economic areas within cities, circulation; transportation and immigration.

Instructor: P.W.Cave Sessions: Summer Day
Winter Day

Content: Specific topics include: development of urban morphology in the Gothic, Renaissance and Modern forms; urban settlement history in North America; central business district, inner and outer suburbs, exurbia; urban land and housing supply, demand, prices and spatial patterns; mobility and transportation; urbanization and planning.

Teaching Method: Lectures and seminar work.

Evaluation: The emphasis will be upon written assignments of "essay" form. Precise details will be arranged during the first meetings of the course.

GGRB07Y Geomorphology: The Pleistocene Epoch

Corequisites: GGRB02; GGRB03; GGRB19

Course description: The course is centred around the theme "Morphology and Process" and evaluates landscape changes during and since the pleistocene Epoch. The relationships between the mechanics of erosion, transport, and deposition and the surface forms associated with the growth and decay of continental ice sheets will be studied. Field trips during the fall term. Limited enrolment: 25.

Instructor: B.Greenwood Session: Winter Day

Content: Specific topics include Climatic Geomorphology; the Pleistocene Epoch as a unit of geological time; techniques of geochronology; theories of climatic change; mechanics of glacial erosion, transport and deposition; periglaciation; land of Southern Ontario.

Teaching Method: Lectures, laboratories and field trips in the Fall term which are required for the course.

Evaluation:

- 1 field project
- 1 term essay
- 1 3-hour examination.

GGRB13Y Cultural Geography

Prerequisites: (GGRA04 or GGRA05) (for 1977-78 only, either will suffice)

Course description: An elucidation of the main concepts of cultural geography through an examination of the characteristics, origins and experience of present-day landscapes.

Instructor: E.Relph Session: Winter Day

Content: Fall term - the features of modern landscapes and their technological, architectural and cultural origins will be discussed and compared with the attributes of landscapes of non-literate and handicraft cultures. Spring term - an examination of the experiences and meanings of landscapes and places, and a consideration of environmental design theories and strategies as they apply to landscapes and places. Tutorial/workshop sessions will focus on methods for investigating particular places and settings, and will involve field work.

Evaluation: Depends in part on class size. Probably based on several reports of field investigations and one major essay.

GGRB17Y Themes in Rural Geography

Exclusion: (GGRC02)

Prerequisites: GGRA04 and GGRA05 (for 1977-78 only, either will suffice)

Course Description: A thematic study of the geography of rural environments. Lectures and seminars in the first term will examine such themes as concepts of rurality, agricultural land use, rural settlement and community, the evolution of landscape, and rural-urban relationships. These will be discussed in various cultural contexts. In the second term seminars will concentrate upon some aspects and problems of rural Ontario, including, for example, contemporary issues in Ontario agriculture, rural poverty, the rural-urban fringe and rural planning. Students will be expected to undertake a research project on a selected aspect of rural Ontario.

Instructor: M.Bunce Session: Winter Day

Content: As in course description above.

Teaching Method: Lectures, seminars.

Evaluation: Will be announced in 1st week of lectures

GGRB18Y Hydrology and Water Resources

Prerequisites: GGRA04 and GGRA05 (for 1977-78, GGRA05 alone is necessary).

Course Description: The course presents a quantitative study of the processes governing the behaviour of water at or near the surface of the earth. Conventional techniques of analysis and prediction are considered as well as some of the applications to problems of water resources management planning.

Instructor: A.G.Price Session: Winter Day

Objectives: To understand the controls on the behaviour of surface and subsurface water, and to develop a familiarity with methods of analysis and prediction of hydrologic events, as well as changes in hydrologic regimes caused by man's interference, both deliberate and unintentional.

Content: See above course description and objectives.

Teaching Method: 3 hours per week, two lectures and 1 lab.

Bibliography: To be announced.

Evaluation: Laboratories, two 1-hour exams, two 2-hour exams, and two major assignments.

GGRB19Y General Geomorphology

Prerequisites: GGRA04 and GGRA05 (for 1977-78, GGRA05 alone is necessary.)

Course Description: Processes of surficial material development and landform evolution; weathering processes and soil development; hillslope form and process; principles of fluvial geomorphology and drainage system analysis; introductory coastal geomorphology; processes of landform evolution in arid regions; the geomorphic role of climatic changes; Pleistocene and present day glaciation; geomorphology as an applied geotechnical field.

Instructors: R.Bryan/B.Greenwood Session: Winter Day

Content: As in course description above.

Teaching Method: Lectures, field trips, laboratories, group research work.

Evaluation: To be announced in 1st week of lectures.

GGRB20Y Introduction to Regional Science

Prerequisites: GGRA04Y, ECOA1Y
Corequisite: GGRB02Y

Course description: An introduction to analytical regional planning, this course surveys quantitative approaches to regional development problems. Topics include the following: industrial location analysis, regional input-output models, regional social and income accounting, inter-regional migration and population growth, urban systems models, spatial interaction, and regional economic growth theory. The purpose of the course is to provide an overview and assessment of methods and theories currently in use in Regional Science.

Instructor: J. Miron

GGRB21S Aerial Photograph Interpretation

Exclusion: GGRB11Y

Prerequisites: GGRA04 and GGRA05 (in 1977-78 one of these courses will be sufficient) or Instructor's discretion

Course description: The geometric properties of aerial photographs are treated, and methods for analysing them are developed, including the measurement of heights and distances. The extraction of other types of information is also covered, including the application of aerial photograph interpretation to problems in geomorphology, soils, agriculture, forestry, and urban studies. The course will conclude with a brief treatment of modern remote sensing techniques.

Instructor: A. G. Price

Teaching Method: 3 hours/week labs and some lectures

Bibliography: Avery, Thomas Eugene, Interpretation of aerial photographs, 2nd ed., Minneapolis, Burgess Pub. Co., 1968, Spurr, Stephen Hopkins, Photogrammetry and photointerpretation, New York, Ronald Press Co., 1960

Evaluation: Labs (many) and 1 final exam.

Exclusion:

GGRA03

Prerequisites:

GGRA04 and GGRA05 (in 1977-78 one of these courses will be sufficient) or Instructor's discretion

Course description: An introduction to the compilation, construction, interpretation and use of a variety of types of maps. The course also introduces some of the basic field techniques used by geographers. Instructor: C. Sparrow.

Methods: Lectures, laboratories

Evaluation: Labs, examination. Allocation of grades to be announced.

Prerequisites:

Any fifteen courses. By the end of the year in which the student takes this course, at least eight courses in Geography (not including GGRC01) must have been completed.

Course Description: Students will be required to complete a dissertation and discuss it with an examining committee. The topic for the research project should be selected by the end of the third year of full-time study (or equivalent) and must be approved by a staff supervisor. Students should start work on the project during the summer preceding their fourth year of full-time study (or equivalent), and should complete most or all of their field work during this period.

Instructor: by arrangement

Session: Winter Day and Evening

Content: Decided by each student in consultation with faculty.

Evaluation: based on the dissertation submitted no later than March 31.

Prerequisites:

GGRA04 or GGRA05

Course description: A systematic examination of the dynamics of regional geography as expressed in diverse patterns in different world regions. The precise regional examples used will vary from year to year in accordance with research interests of instructors involved and with interests of students.

Instructor: T.B.A.

Methods: Lectures, tutorials, seminars

Bibliography: Will vary with regional examples

Evaluation: Will be announced at the beginning of lectures.

Prerequisite:

GGRB05

Course description: An advanced discussion course focussing upon the process of urbanization and its control and planning. The emphasis is upon the framework and programs of regional planning in southern Ontario, existing trends of land use and population change, and the relationship between urban and rural areas.

Instructor: P.W.Cave

Session: Winter Day

Content: Specific topics include: the social, political and ethical basis for regional planning; regional planning machinery, programs and administration; patterns of demographic, industrial land use change; case studies of York, Durham, Niagara and Ottawa regions; land use conflicts in Niagara and in recreation areas.

Teaching Method: Seminars

Evaluation: Seminar presentations, class discussions and one major term paper.

Theory and Method in Modern Quantitative
Geomorphology

Prerequisites: GGRB19, GGRB07 or GGRB13
Corequisite: None but GGRB02 is strongly recommended

Course Description: Theoretical models of landscape evolution in relation to recent experimental and field studies on geomorphological processes. Seminar and project work with considerable reading assignments. Limited enrolment: 20

Instructor: B.Greenwood Session: Winter Day

Content: Specific topics include: trends in geomorphology, conceptual basis of subject, historical approach, climatic and tectonic approaches, process-response models, systems analysis, numerical models, environmental impact assessment.

Teaching Methods: Lectures plus student seminars.

Evaluation:

1 Term paper (50%)
1 Seminar paper (50%).

Biogeography Seminar

Prerequisites: GGRB03; any two of: GGRB07, GGRB15, GGRB18, GGRB19

Course description: Fundamental concepts in Biogeography and Ecology in relation to specific processes affecting plant and animal distributions. Limited enrolment: 20

Instructor: C.Sparrow Session: Winter Day

Content: As in course description above.

Teaching Method: Seminars

Evaluation: To be announced in 1st week of lectures.

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: Advanced seminar course for all fourth year geography specialists. Course is designed to provide those students with an opportunity to explore areas of special interest through guided research and to gain experience in oral and written presentation of material. Apart from student presentations the course will include seminars by faculty members and visiting professors.

Instructors: Geography staff Session: Winter Day

Content: Will vary with student interests.

Teaching Method: Seminars

Evaluation: To be announced in 1st week of lectures.

Contemporary Issues in the Philosophy of Geography

Prerequisites: Any fifteen courses. By the end of the year in which the student takes this course at least seven other courses in geography must have been completed.

Course description: An examination of the major themes in contemporary geography and a critical discussion of the main philosophical positions adopted by geographers (positivism and the philosophy of science, pragmatism, philosophy of history etc.). Alternative philosophical approaches of increasing popularity (phenomenology, Marxism, conceptual analysis) are also considered.

Instructor: E. Relph Session: Winter Day

Evaluation: An annotated bibliography of books and papers that represent different philosophical traditions in geography; an essay on some aspect of the nature of geography.

GGRC13S A Theoretical Approach to Political Geography

Prerequisites: GGRA04 and GGRA05 and/or POLA02, one B-level course in Geography.

Course Description: An examination of theories and principles postulated to explain the relationships between geographical and political phenomena on various scales - local, regional and world-wide. The two main approaches emphasized are morphological and functional. The basic theme of the course is that an understanding of theoretical details is essential for the proper evaluation of the ever changing geographical conditions and political processes in different parts of the world. Limited enrolment: 20

Instructor: J.Dworkin Session: Winter Day

Content: Specific topics include: the nature of political geography, the state - purpose and methods of analysis, the internal structure and functioning of the state, boundaries and frontiers, nationalism and its structural alternatives, geopolitical patterns, political ecological models, law-landscape relations, international perspectives, and behavioural models.

Teaching Method: One 2-hour lecture/seminar per week

Evaluation: One examination, several review essays, and class participation.

GGRC14F Settlement of Upper Canada

Prerequisites: Any three B-level courses in Geography or History.

Course Description: An examination of aspects of the historical geography of pre-confederation Ontario. Particular attention will be paid to the development of the settled landscape through a study of such themes as pioneer settlement, the impact of ethnic diversity, the growth of agriculture, the spread of transportation, and the development of towns. Reading and research of archival and other original source material will form an important part of the course, and will be the basis of weekly seminar discussions. Limited enrolment: 20

Instructor: M.Bunce Session: Winter Day

Content: As in course description above.

Teaching Method: Lectures, seminars, group research.

Evaluation: To be announced in 1st week of lectures.

GGRC15 Y Soil Management and Conservation

Prerequisites: (GGRB10) or GGRB19

Course Description: Application of soils geography to problems of resource use and management. Soil erosion and conservation procedures. Drainage and reclamation of wet soils; reclamation of polder soils. Soil surveys and agriculture. Problems of soils in Arctic and sub-Arctic. Soils of arid and semi-arid lands; irrigation salinization, reclamation.

Instructor: R.Bryan Session: Winter Day

Content: As described in course description above.

Teaching Method: Lectures, seminars, group research, field trips.

Evaluation: To be announced in 1st week of lectures.

GGRC17Y Landscape Evolution in Southern Ontario

Prerequisites: At least three B-level courses in Geography including GGRB05 or GGRB13.

Course description: The effects upon the southern Ontario landscape of changing patterns of settlement, economy and society in the last two hundred years. Both rural and urban landscapes are studied as expressions of culture. Limited enrolment: 20.

Instructors: P.Cave/E.Relph Session: Winter Day

Content: In the Fall Term the course is based on several field trips (held during class time) followed by discussion and analysis of observations. In the Spring Term the emphasis will be on the analysis of individual landscape features, landscape experience and assessment.

Evaluation: Brief reports on the field trips. Class presentation on one landscape element. Paper on landscape development.

Other Comments: Because of transportation problems enrolment is limited to 20.

GGRC18S Transportation Systems and Spatial Development

Prerequisites: ECOA01

Corequisites: , GGRB02Y; (GGRB20Y is also strongly recommended).

Course description: The nature, structure and function of transportation systems. Particular attention will be paid to the study of intra-urban transportation problems and to the theoretical justification for, and empirical evaluation of the role of transportation investment in regional and national planning and development. Limited enrolment: 20

Instructor: J.R.Miron

Session: Winter Evening

GGRC21F Environmental Economics

Prerequisites: GGRB01

Course Description: Environmental issues in a regional context; conservation and resource management; regional development and environmental indicators. Problems of defining and implementing environmental standards. Environmental politics and decision making. Limited enrolment: 20

Instructor: J.Dworkin

Session: Winter Day

Content: A broad range of water resources 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 resources planners. Topics will include methods for preparing projection, impact analyses, project evaluations and public involvement programs.

Evaluation: A combination of a research paper, planning project, and class participation.

GGRC23S

Physical Aspects of Water Resource Management

Prerequisites:

GGRB18; students who have a credit in any of GGRB03; GGRB07; GGRB10 or GGRB15 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 sewage, chemical, thermal and organic wastes. The course outlines the main sources of degradation and depletion of water resources and proposes some physical solutions to these problems.

Instructor: A.G.Price

Session: Winter Day

Objectives: To appreciate the physical implications of man's water usage in times of the degradation of water systems it causes, and to suggest strategies whereby damage may be reversed or at least arrested.

Content: See description and objectives above.

Teaching Method: 2 hours per week of lectures.

Bibliography: To be announced.

Evaluation:

1 seminar, 1 exam and 1 major assignment.

Geology

Geology is the principal branch of the Solid Earth Sciences concerned with the origin, history and structure of the Earth. It is a scientific discipline providing a dynamic perspective view of the physio-chemical and biological process that have operated on the Earth by observations of rock materials. Because of the multidisciplinary nature of Geology, the course "Planet Earth: an Introduction to Geology" interfaces well with other fields such as Anthropology, Biology, Chemistry, Geography, Physics and Quaternary Studies, and provides a sound basis for further studies in these areas as well as a basis for specialization in Geology itself. (Students intending to specialize in Geology are advised to consult Professor J. A. Westgate - Room S521).

GLGA01Y Planet Earth: an Introduction to Geology

Exclusion: GLG140 (St. George)
Prerequisite: None, but one Grade 13 course in Mathematics and Grade 13 Chemistry or Biology or Physics are strongly recommended.

Course description: Fundamental concepts of physical and historical geology are discussed in the context of the Earth as a planet. The first part of the course deals with the composition, structure and origin of the Earth and the physical processes that operate on and in it. The second part details the chronological succession of physical and biological events on the Earth as revealed in the rock record.

Instructors: J. A. Westgate & N. D. Briggs Session: Winter Day

Other recommended courses: The suggested first year programme in Geology includes MATA26Y or MATA55Y, CHMA01Y, PHYA02Y and BIOA03Y.

Content: 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 sediments and landforms they produce; synopsis of the geological history of the Earth with emphasis on North America.

Teaching Method: Lectures, tutorials, laboratory work and field trips.

Evaluation: 2 one-hour mid-term examinations
2 two-hour examinations
2 two-hour laboratory examinations
Laboratory exercises

German

Discipline Representative: H. Wittmann

Courses in German provide opportunities for the study of the language and of the literature of Germany, Austria and part of Switzerland. While language and literature courses may be combined in various ways by students who have completed the necessary prerequisite courses, those who intend to major in German should consult the German and Modern Languages and Literatures entries in the programme section of the two-year calendar. The Programme includes a language course during each year of study in order to maintain continuity in the development of practical skills.

GERA10Y Introductory German

Course description: The fundamentals of grammar and syntax.

Instructor: H. Ohlendorf Session: Winter Day

Content: The course is designed to help the students 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 material 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. Class participation will play a major role determining the final grade.

GERB01F German Literature before 1775

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: The course is to provide the student with a background in German literary history, so that he will be better equipped to understand its development from the middle of the eighteenth century onward.

Instructor: W. Tepfenhardt Session: Winter Day

Content: The course intends to convey an understanding of the historical development of German literature from the beginnings up to 1775. Ideas and the relationship of literary theory and practice during this period will be investigated. Representative literary works will be analysed within the context of their time, with emphasis on the evolution of new genres.

The course includes three comprehensive areas of studies:

1. Medieval Literature (Courtly Epic, Heroic Epic, Minnesang),
2. Renaissance and Reformation (v. Tepl, Hans Sachs, Luther),
3. Baroque and Enlightenment (Opitz, Poetry, Grimmelshausen, Lessing).

Teaching Method: 3 hours of lectures and discussions per week.

Evaluation: 3 one-hour tests in class and a short paper. Class participation will play a significant role in determining the final grade.

GERB02F Twentieth Century Prose

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: Main literary trends in Germany from the turn of the century to the present. A study of works by Rilke, Musil, Mann, Kafka, Hesse, Böll and Grass.

Instructor: Horst Wittmann Session: Winter Day

Content: The course is divided into 3 parts with the following themes: 1. Crisis of consciousness and language (Hofmannsthal, Rilke, Musil, Kafka); 2. The conflict of art and life (Mann, Hesse); 3. Art and morality (Grass, Böll). It intends to show the genesis of modern prose as it emerges from the conflict between the consciousness of the writer and an increasingly complex reality shaped by the revolution of science and technology. Its main goals are to explore the resulting attitude of the writers toward language, toward the structure of society and toward the concept of individuality.

Teaching Method: Three hours of a mixture of lectures and discussion sessions per week.

Evaluation: A number of short quizzes and a paper. Class participation will play a major role in final evaluation.

GERB03S Twentieth Century Drama

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: A study of plays from Expressionism to the present.

Instructor: H. Ohlendorf Session: Winter Day

Content: Each of the 7 to 8 plays we will read are marked by the author's attempt to experiment, to reformulate, to find new departures. Questions we will ask are: What gave rise to the experiments? What was the social, the political climate, in which these plays came to be? What do they have in common? In approaching the answers we will concentrate on the text and the dramatic strategies the authors employed.

Teaching Method: Discussions and lectures in seminar format.

Evaluation: 1 major paper; prepared class participation; 1 take home examination.

GERB04Y Conversation and Composition I

Prerequisite: (GERA11) or GERB20

Course description: A continuation of the language work done in GERB20.

Instructor: Horst Wittmann Session: Winter Day

Content: There will be various kinds of language exercises centered around different textbooks. A more sophisticated grammar review will enable the student to develop all four language skills of reading, writing, speaking, and translating (English to German). Short pieces of prose and poems will offer a basis for literary analysis. In addition, mimeographed material on current events will be introduced to spark class discussion and to encourage oral and written analysis in German. On an advanced level the course intends to foster the students' mastery of grammar and to develop their ability to converse in German with ease and clarity 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.

GERB055 Literature of the Baroque and Enlightenment

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: A study of the seventeenth and eighteenth century literature with special emphasis on Grimmelshausen and Lessing. Poetry will be selected from the works of Gryphius, Fleming, Günther, Klopstock and others. An exploration of themes such as the impact of war on human consciousness and the emergence of the humanistic tradition of German Idealism.

Instructor: W. Tepfenhardt Session: Winter Day

Content: The course is designed to introduce the student to major works of the 17th and 18th century in the fields of poetry, prose, drama and literary theory. It includes a detailed discussion of the theory and practice of Baroque poetry and a close reading of some of Klopstock's poetry. An analysis of Grimmelshausen's novel *Simplicius Simplicissimus* is followed by an exploration of the roots of German Idealism. The last part of the course will deal with Lessing as a playwright and literary critic.

Teaching Method: 3 hours of a mixture of lectures and discussion per week.

Evaluation: 2 one-hour examinations in class and a short paper. Class participation will play a significant role in determining the final grade.

GERB068 History of German

Prerequisite: Grade 13 German or GERA10

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 three main historical eras of the language and to the linguistic phenomena which serve to demarcate the eras from one another.

Instructor: J.D. Woods 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 contribution to class discussion.

GERB07F Modern German Poetry

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: A study of lyrical trends and forms from the post-Romantic era to the present.

Instructor: Horst Wittmann Session: Winter Day

Content: The course deals with a multitude of different forms and styles of poetry in the 19th and 20th Century. It attempts to foster the understanding of how a poem works and of what its role is within the history of its form and in its cultural context. Special topics: The relationship between sound, organization and meaning, poetry and philosophy, poetry and ideology.

Teaching Method: Three hours of a mixture of class discussion and lectures.

Evaluation: Class participation, short quizzes, one short paper.

GERB09F Introduction to Middle High German

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: The structure of the Middle High German language, illustrated through selected works of the literature.

Instructor: J.D. Woods Session: Winter Day

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.

GERB10S Introductory Seminar on German Literature

Prerequisite: Grade 13 German or GERA10
Corequisite: (GERA11) or GERB20

Course description: An introduction to the techniques of literary analysis, applied to representative texts of the eighteenth, nineteenth and twentieth centuries.

Instructor: Horst Wittmann Session: Winter Day

Content: Poems and short pieces of prose from the Baroque to the present will be analysed in close reading. Prosody and metrics will be dealt with at some detail, special attention will also be given to the relationship of form and content. In the final section patterns of rhetoric, syntax, and style will be investigated in the analysis of prose texts. The course will introduce the literary work of art as an intricately structured and coherent unit, it intends to familiarize the student with the fundamental criteria and techniques required for the analysis of literary works.

Teaching Method: All sessions are informal tutorials. Free flowing discussions with a high degree of student involvement.

Evaluation: Each student is asked to prepare a number of short presentations which will be evaluated in class. Class participation plays a major part in the final evaluation.

GERB11Y Classicism

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: A study of Classicism, with particular attention to Schiller and Goethe. Reference will also be made to the critical writings of men such as Winckelmann and Herder and to the essays and the exchange of letters by Schiller and Goethe.

Instructor: H. Ohlendorf Session: Winter Day

Content: The course deals essentially with the writings of Goethe and Schiller after their "Sturm und Drang" period till Schiller's death in 1805. We will read plays, novels, poetry, and essays. The background against which the texts will be read is that of Classicism a term that describes a European literary and critical tradition as well as a specific German literary phenomenon in European Romanticism.

Teaching Method: Discussions and lectures in seminar format.

Evaluation: 2 major papers; prepared class participation; 1 oral examination (end of fall term); 1 take home examination.

GERB15S Nineteenth Century Prose

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: A study of the novella form centering on representative works of major writers in the 19th Century (e.g. Brentano, Grillparzer, Stifter, Keller, Meyer, Storm, Büchner).

Instructor: Horst Wittmann Session: Winter Day

Content: The method of the course is both historical and systematic. Works from three major periods of the 19th Century will be discussed: Romanticism ([Kleist]), Brentano, Eichendorff), Biedermeier (Grillparzer, Stifter, Gotthelf) and Poetic Realism (Droste-Hülshoff, Meyer, Storm). Georg Büchner's role as the most innovative writer of his time and as the precursor of 20th Century man will be assessed. Focal Points: The clash between ideal and reality, and narrative technique, the history and the theory of the novella, the relationship between the evolution of ideas and the character of a literary work of art, the development of the short prose form in the 19th Century.

Teaching Method: Three hours of a mixture of lectures and discussion sessions per week.

Evaluation: Short quizzes and a paper. Class participation will play a major role in the final evaluation.

GERB16F Nineteenth Century Drama

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: The development of drama from Grabbe and Büchner to Hauptmann and Wedekind.

Instructor: H. Ohlendorf Session: Winter Day

Content: The drama in the 19th century is both conservative and revolutionary. We find formal features only realized in the movies, and themes such as murder as a result of medical experiments. There are bourgeois tragedies and open plays for the epic theater. Because of this diversity we will approach the plays by close reading of the text and by viewing them against their biographic, social, and political background.

Teaching Method: Discussions and lectures in seminar format.

Evaluation: 1 major paper; prepared class participation; 1 take home examination.

GERB18F Structure of German

Prerequisite: (GERA11) or GERB20
Corequisite: GERB04

Course description: Specific reference is made to the Sound, Syntactic and Semantic systems of Modern German, in order to ascertain the structures and processes of these systems.

Instructor: J.D. Woods Session: Winter Day

Teaching Method: Discussion of course material.

Evaluation: One class presentation, one major essay, and evaluation of contribution to class discussion.

GERB20Y Intermediate German

Exclusion: (GERA11)
Prerequisite: Grade 13 German or GERA10

Course description: Intensive language work focusing on readings, oral and written composition.

Instructor: W. Tepfenhardt Session: Winter Day

Content: The course is designed to expand the active and passive vocabulary of the students through a variety of reading materials. A thorough grammar review accompanies the reading selections. As the course progresses, the emphasis on grammar decreases in favour of literary discussions and conversation. Short stories and a play by contemporary German writers will supplement the textbook for the course. In addition, mimeographed material on current events will be introduced from time to time to spark class discussion.

Teaching Method: Three hours of lectures 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.

GERC04Y

Conversation and Composition II

Prerequisite: GERB04

Course description: Emphasis will be placed on refining the skills of oral and written composition, of textual analysis and translation.

Instructor: W. Tepfenhardt Session: Winter Day

Content: This course is a continuation of GERB04Y. There will be various kinds of language exercises, selected according to the objectives of the course and the needs and desires of the students. Themes for discussion and composition will be chosen from a wide variety of areas. At the end of this course, the student should be able to write and converse in idiomatic German with a high degree of fluency. He should be able to translate with ease texts of some complexity into both English and German.

Teaching Method: Three hours of informal, yet structured discussion per 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.

GERC01,2,6F
GERC03,5,7S

Supervised Reading

Prerequisite: GERB04

Instructors: Staff Session: Winter Day

Content: Courses are designed to give senior students an opportunity to follow up on ideas generated during the more formal course of instruction. Topics and/or projects are formulated in close consultation between student and supervisor chosen by student.

Teaching Method: Informal tutorials

Evaluation: One paper

Interested students should contact Professor H. Wittmann

History

Discipline Representative: Arthur Sheps

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 (HISA01-HISB09) both provide a foundation in their areas and serve as preparation for more detailed studies. In advanced courses (HISB10-HISC99) students investigate more specific areas or periods or problems. C-level 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, Medieval European, Russian and Ancient Greek and Roman.

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

The requirements of a Major Programme in History are described in the Calendar, pp. 61-62. Students who wish to major in History should consult with members of the faculty as early as possible in order to establish coherence in their studies.

HISA01Y The European World: An Introduction to History

Course description: A survey of European society from the Middle Ages to the present. This course will examine major trends in politics, economy, society and thought, and involves readings from selected primary and secondary sources.

Instructors: J.L. Pearl/M. Eksteins Sessions: Winter Day and Evening.

Content: Among topics covered are: Medieval Society, The Renaissance and Reformation, The Scientific Revolution, Industrialization, Socialism, Marxism, World Wars I and II.

Teaching Method: Lectures and Tutorials

Evaluation:

1 three-hour final examination
1 one-hour examination
Essays and Research papers (at least thirty pages per student in at least three projects).

HISB01Y

Nineteenth Century Britain, 1785-1918

Course description: An examination of the political, social, economic and religious forces which transformed an aristocratic society into an industrial power.

Instructor: J. Kenyon Sessions: Winter Day and Evening

Content: The course will be concerned with the problems caused by the transformation of an agrarian into a highly industrialized economy, of an aristocratic into a liberal democratic society and of a society based on the ideology of the enlightenment into one committed to those of evangelical humanitarianism. It will examine both the social benefits and the social costs of these changes. It will also trace the consequences of Britain's growth as a major imperial power and how this affected her relationship with people of other races.

Teaching Method: Lectures and tutorials

Evaluation:

2 essays
tutorial discussions
1 final examination

HISB02S

From Empire to Welfare State: Britain since World War I.

Course description: This course covers British history from 1906 to the present, with special emphasis on the contraction of British power overseas and the development of government responsibility to provide effective social services.

Instructor: J. Kenyon Session: Winter Day

Content: At the start of the twentieth century Britain was the centre of the most extensive empire the world had ever known. By 1970 she had abandoned her imperial role and replaced it with the purpose of establishing a "just society". The aim of the course is to discuss the reasons for this change and to see how far it has succeeded or whether as a result the British people have lost all sense of purpose in the modern world.

Teaching Method: Lectures

Evaluation:

1 essay
1 final examination

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.

Instructors: A.N. Sheps/W.M. Dick Sessions: Winter Day and Evening

Content: This course is intended to give students a general knowledge of the outline of U.S. history and to introduce them to the main debates with which American historical literature is 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 each term and participation in tutorials will be evaluated to determine the other 50%.

Bibliography: Current, Williams, Freidel, and Brownlee, *The Essentials of American History*, 2nd ed.
Katz and Kutler, *New Perspectives on the American Past*. 2nd ed.
2 vols.

Course description: An examination of the forces which brought about political, social and economic changes in a pre-industrial society.

Instructor: J. Kenyon Session: Winter Day

Content: The purpose of the course is to explain the process of change in a pre-industrial society. It will examine the various forces, political, social, economic, intellectual and especially religious, which brought about a state of crisis in sixteenth and seventeenth Britain from the time of the Reformation through the period of the Civil War until the final outcome in the Revolution of 1688 and the new stability of eighteenth century Britain.

Teaching Method: Lectures

Evaluation:

- 1 essay
- 1 final examination

Course description: The Russian people, state and culture, with emphasis on the major social, institutional and ideological changes from the rise of Moscow to the present.

Instructor: E.W. Dowler Session: Winter Day

Content: Emphasis will be placed on the major institutional, social and ideological developments which characterized Russian life during these centuries. Wherever possible readings have been selected from primary source materials so that students will become acquainted not only with the facts but with the flavour of Russian culture.

Teaching Method: Lectures and tutorials.

Evaluation: There will be an examination at the end of each term on that term's work only. There will also be one long (3000-4000 words) essay or two short (1500-2000 words) essays in each term. Tutorial participation is important for the final grade.

Course description: A survey of the economic, political, religious, social and educational ideas and institutions of Europe from the late Roman period to the fifteenth century.

Instructor: To be appointed Session: Winter Day

Content: This course is intended as a foundation for further studies in medieval history, as an accompaniment to courses in Medieval European art, literature or philosophy, and as a complete self-contained examination of the medieval past for interested students.

Organization and Evaluation: Two lectures and one tutorial per week. Two essays (one per term) will constitute 50% of the final grade; tests and examination will constitute the rest.

Bibliography: To be announced. Consult instructor.

HISB09Y Introduction to Canadian History

Exclusions: HISB05F; HISB06S

Course description: Exploration and settlement; the institutions and life of New France; the British Conquest and its results; the impact of the American Revolution on British North America; development of the British colonies in North America; the confederation movement; the political, economic, social, and cultural history of the new nation-state established in 1867.

Instructors: J. Moir/W. McKay Session: Winter Day

Teaching Method: Two lectures and one discussion 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.

HISB13Y Europe in the Reformation Era 1500-1650

Prerequisite: HISA01

Course description: An examination of major themes in sixteenth century Europe, especially social and cultural developments. There will be strong emphasis on the religious issues and institutions which were so important in that period, and on the interaction of these with the society and culture.

Instructor: J. L. Pearl Session: Winter Day

Content: Sixteenth century class structure, social and political institutions, Intellectual and Cultural Life, The Reformation Movement, both Protestant and Catholic.

Teaching Method: Lectures and discussion groups

Evaluation:

- 1 one-hour final essay test
- 2 research papers, approximately 15 pages each
- participation in discussion sessions

HIS15Y Aspects of European Social History 1789-1918

Prerequisite: HISA01

Course description: A course in international history tracing the development of the mass society from the upheaval of the French Revolution to the end of World War I. Pre-industrial "crowds" and popular responses to industrialization will be studied together with the institutions into which mass action was gradually channelled.

Instructor: W. M. Dick Session: Winter Day

Teaching Method: One double lecture and one tutorial per week.

Evaluation

- Two examinations
- Two term papers
- Tutorial participation

HISB17Y Germany in the Nineteenth and Twentieth Centuries

Prerequisite: HISA01

Course description: A thematic treatment of German history from the end of the Holy Roman Empire to the present, concentrating on social, economic, and cultural interpretations of Germany's political experience.

Instructor: M. Eksteins Session: Winter Day

Content and Organization: Beginning with the emergence of Prussia as a European power and with social and intellectual developments in the 18th century, and concluding with a comparative treatment of the postwar Germanies, east and west, the course focuses largely on Imperial Germany and the Weimar and Nazi experiments. The nature and social impact of industrialization, the strains accompanying the modernization of a 'belated' society, the domestic roots of foreign policy, and the relationship between humanism and barbarism, are some of the important broader issues dealt with in this course. Two consecutive hours of lectures (the first relatively formal, the second more informal during which the thesis presented in the first hour can be discussed and broadened); and one hour of tutorial per week. A set of prescribed readings from primary and secondary sources will be assigned, but extensive further reading is essential. Tutorial participation, two term papers, and a final examination are required.

Prerequisite: HISB01

Course description: A comparative study of the influence of frontiers on the development of new nations. Major issues such as settlement, class structure, race relations, democracy and nationalism, and relations with the metropolitan power, are considered. The main emphasis will be on the history of South Africa.

Instructor: J. KenyonSession: Summer Evening

Content: In South Africa the problems of a frontier society have been compounded by the existence of three races, African, Afrikaaner and British. The purpose of the course is to explain the success of the Afrikaaners in establishing in the twentieth century 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 missionaries and colonial reformers who sought to plan the development of a South African society with very different value standards and from the force of economic imperialism set alive by the discovery of diamond and gold mines.

Teaching Method: LecturesEvaluation:

- 1 essay
- 1 final examination

Prerequisite: HISB01

Course description: The impact of imperialism on India; the motive behind British imperialism; the problems of administration; the transfer of power; neo-colonialism.

Instructor: J. KenyonSession: Summer Evening

Content: Britain was to exercise authoritarian power in India for 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 just as extensively as was that of India. The problem for the historian is to measure the impact on India for good or evil of Britain whose own character was being changed 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: LecturesEvaluation:

- 1 essay
- 1 final examination

Prerequisite: HISA01Y

Course description: An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century. Emphasis will be placed on the incongruity of theory and practice in the writings and policies of the enlightened despots.

Instructor: E.W. DowlerSession: Winter Evening

Content: In the first term the course will focus on the ideas of the Enlightenment and the social, economic and intellectual milieu which spawned them. In the second term the attempts of the so-called enlightened despots to apply Enlightenment ideas to the social, economic and political life of their states will be examined.

Teaching Method: Lectures and tutorialsEvaluation:

- 2 essays (3000-4000 words).
- 1 Final examination.

Prerequisite: HISB03

Course description: The social, political and economic structures of the old South from the colonial period to the Confederacy, the development of southern culture, the relationship between ideas and institutions, slavery as a social and economic system, race relations, and the growth of Southern separatism.

Instructor: A.N. ShepsSession: Winter Day

Organization and Evaluation: One two-hour lecture and one 1-hour tutorial per week. All tutorials will be led by the instructor. The lectures will involve some class discussion and will raise questions to be pursued in tutorials. There will be specific reading assignments for each week. Term work will consist of regular reading and discussion, two brief written reports in the Fall term, and an essay in the Spring term. There will be a final examination.

HISB33S American Society and Thought before the Civil War

Prerequisite: HISB03 and another B-level history course

Course description: A consideration of the major, social and political movements and figures in early 19th-century United States, including Hamilton, Jefferson, Jackson, Lincoln, political parties, abolitionism, racism, reform movements, constitutional and economic theories, and attitudes to immigration, urbanization and territorial expansion.

Instructor: A.N. Sheps Session: Winter Evening

Organization and Evaluation: Lectures and tutorials will emphasize questions and discussion. Attention will be paid to conflicting historical interpretations of the problems studied. Each class will examine a particular topic and will be based on a knowledge of assigned and suggested readings. There will be one essay assigned and an examination.

HISB35Y The United States since 1870; The Response to Industrialism

Prerequisite: HISB03

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 examinations
Two term papers
Tutorial participation.

HISB43Y Ontario History: the 19th Century

Prerequisites: HISB05; HISB06 or HISB09Y

Course description: The land; transportation; economics; social issues; political parties; pioneers and immigrants; forces of international commerce and finance; cultural and religious developments.

Instructor: W. A. McKay Session: Winter Evening

Teaching Method: One lecture and one discussion group per week. Essays, book reviews and oral presentations are required.

Evaluation:

Class participation
Essays
Tests.

Preparatory Reading:

L. Gates: Land Policies of Upper Canada
G. Craig: Upper Canada: the formative years, 1784-1841.

HISB44F Canadian Religious Traditions

Prerequisites: HISB05; HISB06

Course description: A lecture and seminar course investigating aspects of the role of religion in the development of Canadian society. Such themes as religious establishment, denominational education, church-state relations, theological trends, revivalism, religious ethnicism, mission action, nationalism and social groupings in relation to religion, the modernist-fundamentalist controversy, premillennialism, the Social Gospel, and religio-political movements will be examined.

Instructor: J.S. Moir Session: Winter Day

Teaching Method: Two lectures per week.

Evaluation:

Book reviews and essay, class participation, examination.

HISB61Y The Beginnings of France: Constantine to Charlemagne

Prerequisites: Any one of GRHB03, HISB08, HISB27

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 Day

Content: 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 the subject to choose one 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	60%
Oral Presentations	20%
Book Reports	10%
Final Oral Examination	10%

HISC01F)
HISC02S) Independent Studies
HISC03Y)

Prerequisites: At least one B-level course in History; permission of instructor to be obtained in the previous term, by 15 April for HISC01 and HISC03 and by 1 December for HISC02. See History Supervisor of Studies for detailed application procedures.

Instructors: The History Faculty Session: Winter Day

Content: 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.

Organization 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 7500-10,000 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.

HISC14Y The European Mentality in the Early Modern Period (1500-1700)

Exclusions: (HISC12); (HISC13)

Prerequisite: One B-level History Course

Limited Enrolment: 20

Course description: This seminar will examine two major cultural-intellectual developments: the witchcraft crisis and the scientific revolution, which coexisted in this period in a not always antagonistic fashion. Students will do a major research project, based as much as possible on primary sources.

Instructor: J. L. Pearl Session: Winter Day

Content: The nature of belief in witchcraft and what it means for the society. The Scientific Revolution, including classical science, 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

Prerequisite: HISA01; one B-level course in History

Limited Enrolment: 15

Course description: An investigation of the impact of war, technology, economics, and totalitarianism on the social condition and mind of European man. A reading knowledge of one or more foreign languages, although not indispensable, would be very helpful.

Instructor: M. Eksteins Session: Winter Day

Content and Organization: A two-hour weekly seminar in which regular readings and discussion is expected. In the first term certain broad issues, including the problems of methodology, are discussed in order to establish an overview of the subject and to delineate the most significant questions and approaches. In second term specific problems and individual research projects are pursued in detail. 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. A significant proportion of the final grade will be allotted for participation in the seminar.

HISC18Y The Russian Intelligentsia

Prerequisite: HISB07 or ROSA01

Limited Enrollment: 20

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 leading intelligentsia of intelligentsia ideas and personalities. In concluding sessions, the fate of the intelligentsia in the Soviet Union, and the new, 20th-century connotations of the word will be explored.

Teaching Method: Seminar

Evaluation:

2 essays (4000-5000 words).
1 examination.

HISC20S Anglo-Saxon England

Prerequisite: One B-level course in History or English

Course description: A combined seminar and lecture course examining both chronologically and topically such aspects of life in Anglo-Saxon England as law and kinship, political organization, the economic system, the conversion to Christianity, religious organization, the Viking invasions, the Danish imperium, the golden age of Edward the Confessor and the effects of the Norman Conquest.

Instructor: J.S. Moir Session: Winter Evening

Teaching Method: Weekly seminar.

Evaluation:

Oral reports, class participation, essay, examination.

HISC21Y Urbanization and Social Change in 19th Century England

Prerequisite: HISB01

Limited Enrollment: 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 Evening

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 own urban environment. It will concentrate on the major problems which cities share in common and which have proved so difficult to solve: widespread poverty, overcrowded housing, deteriorating public health conditions and a great increase in crime and disorder brought about by the failure of 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

HISC32Y The American Colonies and the British Empire

Prerequisites: Any one of HISB01, HISB03, HISB05 or HISB28

Course description: An examination of the origins of American society and institutions in the seventeenth century and their development in the eighteenth century, the origins, course and effect of the American Revolution and the Constitution and their relation to western political thought, and the impact of the Revolution on British North America and Britain.

Instructor: A.N. Sheps Session: Winter Day

Organization and Evaluation: A weekly two-hour seminar based on required and suggested readings. Discussion each week of particular topics and of the historiographical and methodological debates about them. Class discussion, one brief class report and one essay (4000-5000 words) per term and a final examination will be required.

HISC35F Topics in American Labour History

Prerequisite: HISB03

Course description: A series of seminars surveying American Labor history from the beginning of industrialization to the present.

Instructor: W. M. Dick Session: Winter Evening

Content: The course will deal with the development of trade unions, collective bargaining, relations between government and labour, and labour politics, but will also consider recent literature that attempts to "go beyond institutions" and study the history of the masses of unorganized workers, including women.

Teaching Method: One two-hour seminar per week in which students will report on assigned readings.

Evaluation:

Seminar Reports
One Paper
One Examination

HISC41F Old Huronia

Prerequisite: HISB05

Corequisite: Field trip to be arranged

Limited Enrolment: 15

Course description: Political, social, religious and economic life of the Huron Indians and the interaction of Huron and European cultures.

Instructor: J.S. Moir Session: Winter Night

Teaching Method: Weekly seminar.

Evaluation:

Oral reports, essay, class participation, examination.

HISC43S Selected Topics in Canadian Religious History

Prerequisite: HISB44

Limited Enrolment: 15

Course description: A research seminar examining various themes outlined in HISB44F.

Instructor: J.S. Moir Session: Winter Day

Teaching Method: Weekly seminar.

Evaluation:

Class discussion, essay, examination.

HISC44Y The Prairie Provinces 1850-1950

Prerequisites: HISB05 and HISB06 or HISB09 or equivalent. The course presupposes a knowledge of Canadian history and some skill in historical method.

Limited Enrolment: 15

Course description: A study of the background of Western Canadian alienation beginning with the attempts to break the H.B.C. trade monopoly, native rights, the educational problem, agrarian protest movements, the natural resources control question, the fiscal problems generated by the depression, post-war search for "a place in Confederation".

Instructor: W. A. McKay Session: Winter Day

Teaching Method: One two-hour seminar per week, two essays, book evaluation.

Evaluation: Members must be prepared to make a contribution to the weekly seminar and will be evaluated on their total effort..

Preparatory reading:

A. S. Morton: The Canadian West to 1870-71

G. F. Stanley: The Birth of Western Canada

Prerequisites: HISA01Y and HISC27Y or a number of B-level HISTORY courses

Instructor: To be appointed Session: Winter Day

Content: The precise content of this course has not yet been determined since it will be given by a new faculty member. It will be organized as a seminar and will deal with some particular aspect or event or area of Europe in the later middle ages (e.g. The Crusades; Economic and Social History of Towns; The Western Kingdoms; Religion and Universities). There will be regular readings, class discussion, an essay per term and an examination.

Humanities

Discipline Representative: S. Mittler

The Humanities are concerned with man's never-ending reflection on the human condition, with development and communication of his thought, and with the creation and enjoyment of the beautiful. They are thus an integral part of liberal education.

Courses in the Humanities are offered by the various disciplines which comprise the Humanities Division. However, the student who wishes to explore the Humanities outside the traditional disciplinary framework is encouraged to consider the courses listed below. For the most part, they offer an alternative to examination from within current precise national, historical and disciplinary boundaries, opting instead to restructure subjects of interest around a theme which itself creates its own reasoned limits. Students may find this a particularly attractive point of view from which to study an enduring human myth, a more unified approach to literature, an aspect or aspects of a loose historical period, or a movement of broad cultural relevance.

Roughly speaking, HUM listings may be divided into 3 categories:

- (1) Interdisciplinary courses - i.e. courses that bring together aspects of human experience often taught in separate disciplines.
- (2) Interliterary 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 Scarborough College.

In addition, for senior students, both the Humanities Seminar and the more ambitious Individual Study Year provide a challenging alternative to a conventional programme of study.

HUMA01Y

Prologue*

Course Description: Twenty books of central importance in Western civilization will be read. A comprehensive examination will be given at the completion of each subset of ten books. There is one-hour tutorial for each book. The examination will stress the student's ability to relate the books in his own way, rather than to remember minute aspects of plot and character. At weekly informal sessions guest leaders will present aspects of each work through lectures or other media.

Co-ordinators: P.W. Gooch and W.C. Graham Session: Winter Day

Content:

Group I: The Bible (selections); Homer, The Odyssey; Sophocles, Oedipus Rex; Plato, Symposium; Herodotus, Histories; Aristotle, Poetics; Augustine, Confessions; Dante, Inferno; Machiavelli, The Prince; Chanson de Roland.
Group II: Tirso De Molina, The Trickster of Seville; Montaigne, Essays; Boccaccio, Decameron; Vasari, Lives of the Artists; Newton, Principles; Goethe, Faust; Marx, Communist Manifesto; Darwin, Origin of Species; Freud, Interpretation of Dreams; Wagner, Ring of the Nibelungen.

NOTE: For information on appropriate editions of these works, see the co-ordinators. Titles may change if editions become unavailable.

*"What's past is prologue" - Shakespeare, The Tempest, II, i.

Course Description: The phenomenon of mankind'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.

Instructors: W.G. Oxtoby, B.S. Alton **Session:** Winter Day

Content: The first term concentrates on social and corporate aspects of religion, as specific traditions are differentiated in varying cultural environments and develop through changing historical circumstances. The second term's work investigates aspects of individual experience and 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: Tuesday, 2 hour lecture-discussion on general themes forms, together with reading, the basis of the final examination. Thursday, seminar-tutorials on specific topics provide the context for up to two short papers each term. For reading prior to the course Huston Smith, The Religions of Man, is suggested.

Course description: An examination of the novels of William Morris, Lord Dunsany, George MacDonald, C.S. Lewis, Charles Williams, and J.R.R. Tolkien with a view towards the role of the fantasy novel as a reflection of the modern world and as an escape from it.

Instructor: R. I. Binnick **Session:** Winter Day

Content: Reading and discussion of important works of central fantasy literature.

Teaching method: Lectures and discussion.

Evaluation: 1 in-class examination.
1 term paper or take-home essay examination.
1 optional paper.

Course description: A study of the figure of Heracles/Hercules as he appears in Greek, Latin, Medieval and Modern Works.

Instructor: M.E. Irwin

Session: Winter Day

Content: The course begins with a study of Hercules in Greek and Latin literature and art. It will examine some of the stories centered around him, and the variety of roles he plays. In particular we will be examining Sophocles Women of Trachis and Euripides Alcestis and Herakles. The appearance of Hercules in later literature and art will also be considered. Three modern works Herakles (Frank Wedekind) Women of Trachis (Ezra Pound) and Herakles (Archibald MacLeish) will be discussed. Other works from the classical, mediaeval and modern world will be read and other figures of Hercules-like dimensions will be introduced.

Evaluation: One class test and one essay.

Course Description: A study of the legend of Atlantis from its origins in the writings of Plato to its connections with modern archaeological excavations on the islands of Crete and Thera.

Instructor: W.C. Graham

Session: Winter Day

Content: Atlantis is a paradigm case of the growth of legend and its attendant problems in relation to historical sources, literary developments, scientific investigations, religious and occult speculations. This course will investigate all the major developments of the Atlantis legend since its origin in Plato's dialogues.

Method and evaluations: Lectures and discussions. Students will be expected to participate. Two short or one major paper. One examination.

Course description: Rome in transition from Republic to Principate, with reading of the Aeneid of Virgil as well as selections from Horace and Ovid. Representative pieces of Roman art and architecture will also be studied.

Instructor: I.R. McDonald and Staff Session: Winter Day

Objectives: To present an integrated picture of Augustan Rome and her response to questions of power, social organization, national idealism, and the quality of life as they are reflected in literature, art, and architecture; providing a 'vertical dimension' to consideration of contemporary problems by examination of Rome's influence on European thought and literature.

Content: Study in English translation of selections from Vergil, Horace, Ovid, Propertius, and Livy; the Res Gestae of Augustus; Augustus' building programme, with particular attention to the Augustan Forum and the Ara Pacis; the "Prima Porta" statue and minor works of art; state religion and the cult of the Emperor.

Method: Two hours weekly lectures, one hour discussion every second week.

Additional Comments: This course complements the three other Humanities courses organized on the theme, "The Age of...": HUM B24, "The Age of Nero"; HUM B22 "The Age of Pericles"; HUM B25, "The Age of Homer".

Evaluation: To be announced later.

Course description: The world of Homer's heroes as described in the Iliad and revealed through archaeology. The course will cover the development of early Greek epic poetry and will offer a survey of Mycenaean remains. Required reading will include Homer's Iliad.

Instructor: M.C. Shaw and Staff Session: Winter Day

Objectives:

- 1) To investigate the Homeric poems as sources of history for a period of Greek civilization for which no substantial ancient literary documents exist (ca. 1500-1000 B.C.)
- 2) To appreciate the poetic qualities of the poems and to understand the particular circumstances under which they were composed.
- 3) To impart a knowledge of the cultures described by Homer and known through excavation (eg. Mycenae of Agamemnon, Troy or Priam, etc.) and an understanding of the particular circumstances and processes involved in the composition of the two epic poems.

Method: One 2-hour session per week. Lectures dealing with the Mycenaean culture are richly illustrated by slides. The analysis of the poems from the literary point of view will be based on the assumption that the students will have read the poems early in the term (in translation) so that they will be familiar with their story, form and most outstanding characteristics.

Bibliography: Homer, Iliad and Odyssey: in translation. Selective readings in books dealing with the archaeological content and literary qualities of the Homeric poems.

Evaluation: One term paper either on an archaeological or a literary aspect (1/3 of total grade); one end-of-term or Final examination of 2 hrs. (2/3 of total grade).

Course Description: Science fiction is where Science and Humanities interact. Its authors have been exercised, no less than scientists and philosophers, by the central concepts of western scientific thought, as will be seen in reading the works of such authors as Mary Shelley, Jules Verne, H.G. Wells, Olaf Stapledon, C.S. Lewis, John Wyndham and Aldous Huxley.

Instructor: R. I. Binnick

Session: Winter Day

Content: Reading and discussion of representative authors.

Teaching method: Lectures and discussion.

Evaluation: 1 in-class examination.
1 term paper or take-home essay examination.
1 optional paper.

Course description: An exploration of its philosophical, cultural, political and literary achievements in Soviet Russia before World War II.

Instructors: C.V. Ponomareff, Bill Graham, Wayne Dowler

Content: The Russian Revolution was born amidst a flurry of contradictory ideals and brave hopes. This course will explore these ideals and hopes in their philosophical and literary expressions against the background of the political and social realities of Soviet Russia in the 1920's and 1930's.

Teaching Method: Lecture/discussion

Evaluation: 3 minor essays
1 Final examination

HUMB31Y Russian and English Nineteenth Century Fiction

Course description: A comparative study of Russian and English fiction of the nineteenth century. The course will focus on visions of society and artistic perception in the novels and shorter fiction being studied. While individual works will be examined in some detail, the course will also try to suggest differences and similarities between the cultural, social and political traditions from which prose fiction emerged in England and Russia. Limited enrolment: 30.

Instructors: C. Ponomareff/K. Theil

Session: Winter Day

Content: Novels and shorter fiction by Emily Brontë, Dostoevsky; Thackeray, Goncharov; Dickens, Gogol; Eliot and Tolstoy. A detailed reading list and bibliography will be available in the Spring through the Divisional Office.

Teaching Method: A combination of lectures and class discussion, with both instructors participating in most classes.

Evaluation: One major term paper (approx. 5,000 words); a few shorter assignments (short papers, book reports or seminar presentations); a final examination.

HUMB51S

BEYOND CONSCIOUSNESS

Prerequisite: At least one full course equivalent in either Psychology or Philosophy or English or another 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.

Instructor: W.J. Bancroft **Session:** Winter Evening

Content: In 1977-78, suggestion and the unconscious will be studied insofar as they relate to the educational process and emphasis will be placed on yoga, music therapy, Soviet and Western work in parapsychology and communication theory. As one of a number of possible applications of these disciplines to education, the Lozanov Method will be discussed in some detail.

Bibliography: A detailed bibliography for this course will be provided on the first day of class. Students interested in taking HUM B51SN might wish to consult the following: Brown, *New Mind, New Body* (Harper & Row, 1974); Eliade, *Yoga: Immortality and Freedom* (Princeton, 1958); Ostrander & Schroeder, *Psychic Discoveries behind the Iron Curtain* (Prentice-Hall, 1970) and *The ESP Papers* (Bantam, 1976); *Present-Day Russian Psychology* (Pergamon, 1966); *Problems of Suggestology* (Sofia, 1973); Vygotsky, *Thought and Language* (M.I.T., 1962).

Evaluation: One major essay or research paper; one take-home or class test (or examination); classroom assignment(s).

HUMH

Humanities Seminar

Prerequisite: Any ten courses

Course description: A special half-credit seminar course, taken usually after the completion of ten credits. Each member of the seminar gives a report of individual projects undertaken by him.

Coordinator: P.W. Gooch

Session: Winter Day

This is a seminar for those enrolled in the B.A. in Humanities programme. It is required for those who have completed ten courses; other interested students may attend the seminar sessions.

Topics for the seminars are to be chosen in consultation with the coordinator. The topics chosen should build upon work already done in other courses, and should attempt to relate material from two or more disciplines. **Evaluation** is based upon one long paper or two shorter papers, and the seminar performances.

HUMC19Y

Contemporary Fiction and its Backgrounds

Prerequisite: One B-level course in Literature.

Instructor: S. Mittler

Session: Winter Day

Course description: An interliterary study of important twentieth-century works of English, European and Latin American fiction with emphasis on modern innovations in narrative technique, historical traditions of the epic mode and the changing literary conception of "reality". Prose by Gide, Borges, Joyce, Bulgakov, Kazantzakis, Woolf, Powles, Grass, Queneau and others will be discussed and works read in translation, although students with reading knowledge of one or more foreign languages will be encouraged to read in the original. This course should be of interest not only to "generalists" but also to "specialists" wishing to explore themes and problems beyond the confines of one literature.

Content: Works of English, European and South American fiction studied via methods of literary analysis that include distancing time and space, the technique of Epiphany and reader-narrative voice relationship. The last part of the course will deal with the reader's creative participation in the novel, and the New Novel in France and South America.

Method: Two lectures and one tutorial per week.

Evaluation: One Christmas examination, one Spring examination, one essay and class participation.

Prerequisite: HUMB20

Course description: An analytic and comparative study of the various descriptions of Jesus in early Christianity and in Judaism, as these can be ascertained from the New Testament, the Talmud and Midrash, and the polemics between Jews and Christians in the Apostolic Fathers. The investigation will be set against the background of Jewish Messianic expectations.

Instructor: Peter Richardson Session: Winter Day

Method: Seminars, combining formal class contributions and group work on selected texts. Consistent and regular effort will be expected.

Content: The first term deals with the gospels; most of the time will be spent working with a synopsis, attempting to make critical evaluations of select texts in which there is a polemic interest in Jesus' person or actions. The second term will be spent on texts from Paul, John, Hebrews, Barnabas, Clement, Justin, and the Talmud and Midrash.

Tentative method of Evaluation: based on four seminar presentations and one major essay. No final exam anticipated.

Bibliography: K. Aland (ed.), Synopsis of the four Gospels, Stuttgart
OR H.F.D. Sparks, A Synopsis of the Gospels
R.H. Fuller, Foundations of NT Christology, Fontana p.b
OR F. Hahn, Titles of Jesus in Christology, Lutterworth

Prerequisites: Any two B-level courses.

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 Kirkness 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. Reading 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 their chosen areas, and will take an oral examination at the end of the year before an appropriate board of faculty. Those interested in enrolling should contact the Divisional Chairman by the end of May 1977. (For a year of individual study, students must enrol in all five courses. Those who wish to take Individual Studies, should consult disciplinary listings.

Italian

Discipline Representative: A. Franceschetti

Scarborough College offers a wide range of courses on the language and literature of Italy from the Middle Ages to the present. For students who have no previous training in the language, the study of Italian begins at the elementary level with ITAA01. Students with Grade 13 Italian (or equivalent) take ITAB02 which is the prerequisite for literature courses as well as for the more advanced language courses. In both courses, emphasis is given to the spoken and written aspects of the language.

Courses offered by other disciplines may prove directly valuable to the student in Italian as adjuncts to his plan of study or as an enrichment of his total programme. Similarly, certain aspects of Italian literature complement other areas of interest, such as Fine Art, Music, and English, French, Latin, or Spanish literature.

Students enrolled in Italian, some of whom may later wish to enrol in the Faculty of Education or to continue their studies at the graduate level, are strongly urged to confer with their instructors at the earliest possible date in order to establish a comprehensive and coherent plan of study.

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.

ITAA01Y Introductory Italian

Exclusion: ITAA11

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 McAuliffe 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/aural skills for conversational 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 classtime 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%).

ITAA01B
ITAA02S

Introductory Italian
Conversation I

Exclusions:

ITAA11 or any other Italian course at the university level or at the grade 13 level.

Course description: ITAA01B: is an elementary course for students with no knowledge of Italian. Elements of grammar, with attention given to oral practice. Short contemporary texts will be studied.

ITAA02H: is a graduated and controlled approach to spoken Italian. Topics selected for discussion will aim at a practical application of the language.

Instructor: Dennis McAuliffe

Session: Summer Day
(Summer Language Institute)

Comments of the instructor: The daily three hours (Mon.-Fri.) of class time of ITAA01B are devoted to the presentation and practice of the basic grammatical structures of the Italian language, with emphasis on the oral/aural skills. A special effort is made to engender an ambience in which the students are able to free themselves of the inhibitions frequently associated with language study and establish a rapport among themselves and with the instructor conducive to activating their basic language learning abilities. As soon as possible literary readings and others on topics of general interest will be studied as an introduction to the written language and to provide topics for discussion in class. There will be regular written assignments including grammar exercises and compositions.

The objective of ITAA02H is to provide the students with first-hand experience of the living language. Once again attention is paid to maximizing language learning abilities by fostering a rapport of informal amicability among the students and instructors. A variety of activities will be organized including discussions on topics of general interest; seminars on Italian culture and civilization; the teaching of skills such as cooking and design; both indoor and outdoor situations such as music appreciation and picnicking. Each student will choose a prescribed minimum number of hours of participation from among these activities. The beginner will find that he is rapidly developing the vocabulary of every day usage and the ease of structuring simple discourse.

Evaluation: ITAA01B: Class participation 60%; written quizzes and assignments 40%.

ITAA02H: Participation 70%; oral examination 30%.

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. These courses can also be taken on a non-credit basis.

ITAA02F Conversation I

Corequisite: ITAA01

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 Franceschetti Session: Winter Day

Content and Teaching Method: Relevant current topics and areas of interest to the students will be discussed, such as facets of Italian and Canadian culture, aspects of politics and various social problems. The three hours per week 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%.

ITAA03S Conversation II

Corequisite: ITAA01 or ITAA11

Course description: A continuation of ITAA02.

Instructor: Dennis McAuliffe Session: Winter Day

ITAA01 Elementary Italian

Conclusion: ITAA01

Course description: An elementary course for native speakers with little or no knowledge of standard Italian usage. Short contemporary texts will be studied.

Instructor: to be announced Session: Winter Day

Content and Teaching Method: The course, which is designed only for native speakers, aims at giving a basic knowledge of Italian and the ability to express oneself correctly, to read and write simple texts. The main objective is to free the student of the phonological, lexical and grammatical interference from both dialects and English, as commonly misused in the Italian community. Throughout the year, the study of the grammar and the enrichment of the vocabulary will accompany the effort to minimize the above mentioned interferences. Modern prose passages are analysed in class from the point of view of grammatical structure, lexical choice and idiomatic expressions. The course will be conducted almost entirely in Italian. There will be five hours of lectures per week: the use of the language laboratory is highly recommended.

Evaluation: Oral and written exams (50%), class participation (30%), compositions and oral reports (20%).

ITAB02B Intermediate Italian
ITAB03S Intermediate Conversation I

Prerequisite: ITAA01 or ITAA11 or Grade 13 Italian.

Course descriptions: ITAB02B: Intensive review of the grammar, with drills, exercises and compositions.

ITAB03H: An advanced course in conversation for those students with a knowledge of Italian. Attention will be given to idioms and special constructions.

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

Content and Teaching Method: These courses will improve the basic knowledge of Italian acquired in previous studies and will allow the student further opportunity to converse in Italian with the goal of increasing fluency in the language. The courses concentrate on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of modern Italian passages in prose and poetry and various topics of interest to both students and instructor. Emphasis will be placed on aspects of Italian culture and civilization. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The courses will be conducted in Italian; there will be three hours per day plus some extra class activities.

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

Additional Comments: Registration for these courses is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. These courses can also be taken on a non-credit basis.

ITAB02Y

Intermediate Italian

Prerequisite: Grade 13 Italian or ITAA01 or ITAA11 or equivalent

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

Instructor: G. Katz

Session: Winter Day

Content: The course concentrates on explaining and practising the more difficult parts of Italian grammar. This will alternate with reading and discussion of modern Italian passages in prose and poetry. The student will be asked to prepare written grammar exercises, as well as to write comments on or summaries of the readings discussed in class. The course will be conducted in Italian whenever possible.

Teaching Method: Three hours of lectures per week.

Evaluation: Six written exams (one per month) 70%; class participation and work done at home (compositions, written grammar exercises) 30%.

ITAB03F

Intermediate Conversation I

Corequisite: ITAB02

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.

Instructor: Dennis McAuliffe

Session: Winter Day

Comment of the instructor: This course offers the opportunity to those who need it to improve their oral/aural skills in a relatively informal classroom situation. Students will be expected to prepare topics of common interest for discussion in class by doing background reading in Italian on the topics chosen and by preparing the specialised vocabulary of those topics. In addition at least three oral reports on an agreed-upon topic related to Italian culture and civilization will be required of each student. There will be an oral examination at the end of the course.

Evaluation: Class participation (40%); oral reports (25%); final oral examination (35%).

ITAB04F

Advanced Composition

Prerequisite: ITAB02

Course description: Study and analysis of selected texts, translations and compositions.

Instructor: G. Katz

Session: Winter Day

Content: The students will be asked to write a brief composition in Italian every week, and at least an hour a week will be spent discussing and explaining the main grammatical and idiomatic difficulties that will have emerged from the compositions. Short passages of modern Italian prose or poetry will be read and discussed in class, and students will be asked to write a brief summary or comment on them in Italian. The course will be conducted in Italian whenever possible.

Teaching Method: Three hours of lectures per week.

Evaluation: Three written exams (one per month) 70%; class participation and work done at home (compositions) 30%.

ITAB05S

Practical Translation

Prerequisite: ITAB02

Course description: Practice in translating from English to Italian and from Italian to English. Different examples of translation will be analyzed, and texts in both languages studied comparatively in terms of literary technique and style of expression.

Instructor: S. Mittler

Session: Winter Day

Content: Passages of different types will be translated in a "translation workshop" concerned primarily with increasing the proficiency of the student, as opposed to grading him per se.

Teaching Method: Prepared translations, taken up in class.

Evaluation: 3 or 4 (to be decided in class) class tests, plus final exam, all of equal value.

ITAB06S

Intermediate Conversation II

Prerequisite: ITAB02

Course description: A continuation of ITAB03

Instructor: G. Katz

Session: Winter Day

Content: This course aims at developing as fully as possible the student's facility with the language and will continue the program outlined in ITAB03.

Teaching Method: See ITAB03.

Evaluation: See ITAB03.

ITAB21Y Introduction to Italian Literature

Prerequisite: ITAB02

Course description: A survey of Italian literature, from the Middle Ages to the present.

Instructor: G. Katz 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 etc. Special attention will be given to major literary movements: "Dolce Stil Novo", 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%.

ITAB31Y Dante and Medieval Culture

Prerequisite: ITAB02

Course description: Introduction to Medieval Italian literature with special reference to Dante.

Instructor: Antonio Franceschetti Session: Winter Day

Content and Teaching Method: This course aims to introduce to the student the problems, mentality, social and cultural patterns of man in the Middle Ages with specific reference to literary phenomena such as Provençal lyrics and old French poetry and epics. The origins and development of medieval literature will be examined, leading up to Dante and the masterpiece of the Middle Ages, *The Divine Comedy*. The course will include a brief survey of Dante's minor works and their significance in terms of the life and culture of the times. There will be three hours of lecture with discussion per week. Class attendance is highly recommended and class participation and student's comments strongly encouraged.

Evaluation: Term tests 50%; class participation 20%; oral report 30%.

ITAB24F The Renaissance Epic

Prerequisite: ITAB02

Course description: A brief survey of the origins of epic poetry in the Middle Ages will precede the study of the masterpieces of the Renaissance Epic: Pulci's *Morgante*, Boiardo's *Orlando Innamorato*, and Ariosto's *Orlando Furioso*.

Instructor: Dennis McAuliffe Session: Winter Day

Content of the instructor: This course intends to give the student an adequate knowledge of the artistic and cultural significance of the masterpieces of Italian Renaissance chivalric literature. A brief survey of the origins of epic poetry in the Middle Ages will precede the study of Pulci's *Morgante*, Boiardo's *Orlando Innamorato*, Ariosto's *Orlando Furioso*. Selected passages of these three poems will be read and discussed in class. The lectures will stress Pulci's comical and burlesque attitudes towards chivalric institutions and conventions, Boiardo's idealistic vision of man, and Ariosto's participation in both these attitudes as well as his role as "inventor of the modern novel".

Evaluation: Three quizzes (40%); oral report and participation in classroom discussions (40%); written report (20%).

ITAB35S Italian Sixteenth Century Theatre

Prerequisite: ITAB02

Course description: A study of tradition and innovation of the genres and techniques in the theatre of sixteenth century Italy. Particular stress will be laid on the *commedia-erudita* as well as on the development of *tragi-comedy* and *tragedy* in the theatre of this period. Plays will be selected from the works of Machiavelli, Ariosto, and Aldo Cinzio and their contemporaries.

Instructor: Dennis McAuliffe Session: Winter Day

Content of the instructor: After a brief introduction of the origins of the vernacular theatre in Italy, we will make a detailed study of the representative of the three areas of pre-*commedia dell'arte*: comedy, including *commedia erudita*, the popular comedy, for example Ruzzante; Tragedy in imitation of Seneca and Greek theatre; and Pastoral Drama. Selections will be made with a mind toward the variety of interests associated with the development of the theatre of this time: literary, linguistic, social, architectonic, and technical both of staging and of performance. If there is sufficient interest and enrolment, it may be possible to arrange the extra-curricular preparation of a play (or scenes) for performance.

Evaluation: Participation in classroom discussion (33 1/3%); oral written report (33 1/3%); written final exam (33 1/3%).

ITAB40S Reformation and Baroque Literature

Prerequisite: ITA002 or ITAB02

Course description: The creation of a new lyric expression in Tasso's Gerusalemme Liberata and other poetry. Its development in Marino and the Marinisti. Aspects of philosophical, religious, political and historical thought of the period (Bruno, Campanella, Botero and Sarpi).

Instructor: Antonio Franceschetti Session: Winter Day

Content and Teaching Method: The aim of this course is to provide the student with an adequate knowledge of the artistic and cultural aspects of Italian literature from the middle of the sixteenth to the middle of the seventeenth centuries. During the three hours of lectures per week selected passages of Tasso's works will be read and discussed in class, pointing out his innovations in the Renaissance tradition and his relevance towards subsequent developments of Italian lyric poetry, as exemplified in Marino's writings and those of his followers. Students' oral reports will focus on other cultural characteristics of the period.

Evaluation: Term test 40%; oral report 30%; class participation 30%.

ITAB45F The Nineteenth Century Italian Novel in Transition

Prerequisite: ITAB02

Course description: Verga's use of VERISMO to translate new social and political reality; Fogazzaro's version of bourgeois life; D'Annunzio's esthetics and cult of the "superuomo"; and Svevo's analysis of the distortion of memory.

Instructor: S. Mittler Session: Winter Day

Content: The changing Italian social and literary scene in the nineteenth century and immediately afterwards, as seen in the following books:

Verga, G: I. Malavoglia
Fogazzaro, A: Piccolo Mondo Antico
D'Annunzio G: Il Piacere
 Il Fuoco
Svevo, I: La Coscienza di Zeno

Teaching Method: Lectures plus, wherever possible, seminars.

Evaluation: 1 Essay, 1 exam plus class participation; breakdown to be discussed in class.

ITAB50F- 54F Supervised Reading
ITAB55S- 59S

Prerequisite: ITAB02

Corequisite: ITAB21 or ITAB31

Interested students should contact Prof. A. Franceschetti.

Courses

Following courses are offered jointly by these disciplines:

Biology and Chemistry

B35Y Introductory Biochemistry.
B36H Laboratory in Chemistry

Business and Economics

B54S Industrial Relations
B72F Analysis for Decision Making I
B73S Analysis for Decision Making II
B02Y Corporation Finance

Business and Sociology

B27Y Organizational Behavior

Liberal Arts and English

L13Y A Seminar in Literary Theory and Practice

Linguistics and Psychology

B55F Psycholinguistics

Mathematics and Computer Science

C31F Combinatorics
C48S Applied Algebra
C51S Numeric Methods

Mathematics and Philosophy

B50F Symbolic Logic I
B51S Symbolic Logic II

Physics and Astronomy

C08S Special Theory of Relativity
C10Y Relativity and Cosmology

Physics and Mathematics

C42S Advanced Classical Mechanics

JBCB35Y

Introductory Biochemistry

Exclusions: (BIOC06); (BIOB35); (CHMB35); (CHMC06)
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. Gurd

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 1-hour lecture exams
 One 2-hour Christmas exam
 One final exam.

JBCB36H

Laboratory in Biochemistry

Exclusions: (BIOB36); (CHMB36)
Prerequisites: BIOA03; CHMB05
Corequisite: JBCB35

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

Instructor: J. Gurd

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.)

JBCB35Y

Industrial Relations

Prerequisite: ECOA01

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

Instructor: T.B.A.

Session: Winter Evening

Content: A detailed examination of the legislative framework which influences virtually every aspect of the industrial relations system. Consideration of the collective agreement, its negotiation and administration. A brief introduction to a number of "issues": e.g. strikes, trade union organization, compulsory arbitration.

Teaching Method: Primary reliance is, of necessity, placed upon lectures. Assigned reading material supplements the lectures and a few problems are provided.

Bibliography: Required texts will probably include: The Ontario Labour Relations Act and Industrial Relations in Canada by Stewart Leson (MacMillan; Toronto 1973).

Evaluation: In 1976/77 there were 2 compulsory exams and an optional essay. The weighting of the final exam was twice that of the midterm.

Additional Comments: Because the public policy of Ontario is expressed in legislation, and labour and management regulate their relationship by means of a legal contract, the course must of necessity be concerned with legal concepts and processes. A certain amount of "legalism" is unavoidable.

JBCB72F

Analysis for Decision Making I

Exclusions: (COMB26), ECOB71)

Prerequisites: (MATA56) or (MATA58) or CSCA56 or CSCA58, or MATA22 or MATA26 or MATA55, ECOB01.

Course description: A course in the analytical formulation and solution of decision problems. Linear decision models, and especially linear programming, are the tools primarily discussed and employed.

Instructor: T.B.A.

Session: Winter Day

Content: An introductory study of linear programming. Applications in Commerce and Economics will be emphasized.

Teaching Method: Lectures with occasional problem sessions.

Evaluation: Exams, problem sets.

Exclusions: (COMB26), (ECOB71).

Prerequisites: ECOB11, JCEB72

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

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

Content: Topics in operations research, such as dynamic or stochastic programming, inventory theory, queueing theory.

Teaching Method: Lectures with occasional problem sessions.

Evaluation:

Exams, problems, projects.

JCECO2Y Corporation Finance

Exclusion: (COMCO2); (ECOCO2)

Prerequisites: COMB01; ECOB01; (ECOA02), ECOB11

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.

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

Additional Comments: No further details are available at the present time. For further information, contact the Assistant Chairman, Commerce.

Organizational Behaviour

Exclusions:

Prerequisite:

(COMB27) (SOCEB27); (SOCC02)

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. Empirical studies used in the first term will focus on single organizations. Those 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 a major project, and should be prepared to share their conclusions in class discussions.

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

Additional Comments: No further details are available at the present time. For further information contact the Assistant Chairman, Commerce or the Assistant Chairman, Sociology.

A SEMINAR IN LITERARY THEORY AND CRITICISM

Exclusion: (ENG13); (HUM13) Enrolment: Limited to 30

Prerequisites: For English students: Normally three English courses - at least one at B-level; for others: Any three B-level courses.

Course description: A study of critical theories from Plato and Aristotle to Eliot and Northrop Frye.

Instructors: E.P. Vicari, John Warden Session: Winter Day

Advanced seminar for students majoring in English and others interested in theories of literature, art and imagination.

Content: In the Fall term some major texts by Plato, Aristotle, Virgil, Horace, Sidney, Dryden, Johnson, Wordsworth, Coleridge, T.S. Eliot and Eliot will be read. The important problems relating to the nature and function of literary art, its social, historical, philosophical and psychological contexts, and the role of criticism will be introduced. In the Winter term discussion will centre on some twentieth-century treatments of these problems.

Teaching Method: Seminar discussions.

Evaluation: Two 2750 word essays. At least two oral presentations. Participation in discussion.

JLPB55F Psycholinguistics

Prerequisite: LINA01
Exclusion: (LINB05); (PSYB71)

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: G. McKoon Session: Winter Day

Teaching Method: One 2-hour lecture and one 1-hour discussion period each week plus reading assignments in text.

Evaluation: 2 2-hour exams over lectures and text assignments. A presentation (one hour) to the class during one of the discussion periods or a term paper.

JMCC31F Combinatorics

Prerequisite: At least two B level courses in mathematics or computer science.

Other recommended Courses: CSCA58F, MATA40F

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. Mendelsohn Session: Winter Day

Teaching Method: Lectures, Assignments and Tests.

Evaluation: 1) Weekly assignments
 2) Two take-home tests and/or one class test

28S Applied Algebra

Prerequisite: (MATC48)
Exclusion: MATC44
Prerequisites: Any two of CSCB28, JMCC51, CSCB68, CSCB73

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 theorem. The fast Fourier transform and multiplication of large integers and polynomials. Semi groups. Lattices. Boolean algebras and their applications.

Instructor: W. H. Enright Session: Winter Day

Objective and Content: This course is concerned with the analysis and derivation of efficient algebraic algorithms. In the first two 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 then be studied and their application to such areas as polynomial factorization, exact solution of linear equations and fast integer/polynomial multiplication will be discussed. Implementation difficulties will also be discussed and various Algebraic computation systems will be surveyed.

Evaluation: A final exam
 6 - 7 Assignments (only one involves programming)

C51S Numerical Methods

Prerequisite: (MATB53)
Prerequisites: MATA40; MATB42 or MATB55; CSCA68

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: W. H. Enright Session: Winter Day

Objective and Content: This course provides an introduction to numerical analysis and the use of numerical methods. Although the course treats the analysis of numerical problems and the evaluation of numerical methods, the main emphasis is on the use and use of numerical methods from program libraries. Inexact floating-point arithmetic, instability, lack of convergence and conditioning are discussed and techniques for detecting and dealing with these difficulties will be presented.

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

Exclusions:

(PHLB50); (MATB80)

Course description: An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic.

Instructor:

H.J. 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, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Topics of more theoretical interest are presented in lectures supported by essays and other materials by the instructor, copies of which are distributed. But the emphasis is on techniques, and examinations are confined to them.

BIBLIOGRAPHY (principal text)

Donald Kalish and Richard Montague, Logic: Techniques of Formal Reasoning (for deductive techniques only).

Evaluation: To be announced later.

Exclusions:

(PHLB51); (MATB85)

Prerequisite:

JMPB50 or (PHLB50) or (MATB80)

Course description: A continuation of JMPB50F.

Instructor:

H.J. Sobel

Session:

Winter Day

Content: In the first and longest part of the course the natural deduction system studied in Symbolic Logic I is extended to cover identity and definite descriptions. Special attention is paid to the restriction of the identity calculus to 'extensional' terms and formulas. Alternative treatments of definite descriptions, one that follows Frege, the other that follows Russell, are developed and compared. The emphasis in this first part of the course is on techniques.

The second part of the course covers the meta-theory of standard elementary logic with emphasis on completeness proofs for sentential and predicate logic and on the 'limitative' theorem due to Skolem, Godel and Church. The object in this part of the course is theoretical not practical -- appreciation of, rather than skill in developing meta-logical structures and proofs.

Bibliography: (principal texts).

Donald Kalish and Richard Montague, Logic: Techniques of Formal Reasoning.

Geoffrey Hunter, Metalogic: An Introduction to the Metatheory of Standard First Order Logic.

Evaluation: To be announced later.

Exclusions: (ASTC08), (PHYC08)

Prerequisites: PHYA01; PHYB01

Course description: Foundations of Relativity Theory. Lorentz transformations. Local reference frames. Relativistic kinematics and dynamics. Space-time, four-vectors, tensor algebra, relativistic particle mechanics and electromagnetism. Stress-energy, and conservation laws.

Instructor: E. Honig

Session: Winter Day

Objectives: To develop an understanding of the conceptual basis of special relativity and a working knowledge of it. Emphasis is placed on the structure of the theory and its applications to branches of physics and astrophysics. The course also forms the basis for a smooth transition to general relativity theory.

Content: The classical notions of space and time and their inadequacies are discussed. The equivalence principle is introduced to define inertial frames. Together with the relativity principle it is used to lay the groundwork for the rigorous presentation of the theory. Relativistic kinematics and optics, ideas of spacetime, and the mathematics of four vectors and tensors are developed. This is followed by relativistic particle dynamics and electrodynamics, as well as various applications. The course ends with the shortcomings of the theory and the need to supplant it with general relativity theory.

Teaching Method: Lectures and a tutorial.

Evaluation: Homework, one midterm, one final, possibly an oral.

Exclusions:

(ASTC10), (PHYC10)

Prerequisites:

PHYB01; JPMC42, JPAC08 would be desirable

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

Instructor:

R. Roeder

Session:

Winter Day

Content:

1. Brief Review of Special Relativity.
2. Mathematical Background: types of tensors, tensor operations, Riemannian space, geodesics, types of differentiation, the Riemann, Ricci, Weyl and Einstein tensors, Geodesic Deviation, Killing Vectors.
3. Field Equations in Free Space: derivation, Schwarzschild exterior solution, tests of relativity, Kerr metric.
4. Field Equations in the Presence of Matter: Schwarzschild interior solution, stability of gaseous masses, gravitational collapse.
5. Cosmological Theory: the Robertson-Walker metric, anisotropic models, inhomogeneous (Swiss Cheese) models, the geometry of a congruence of null geodesics (Ehlers-Sachs Theorem), galaxy formation.
6. Observational Cosmology: distance versus redshift, number counts, the mean density, angular diameters, background radiation, element synthesis, the quasars.
7. Gravitational Radiation: weak field approximation.

Teaching Method: 2 lectures per week.

Evaluation: Assignments 50% Exam 50%

Exclusions: (PHYB46, MATB46); (PHYC42), MATC42)

Prerequisites: MATC41 or MATB56; PHYA01 or PHYA02

Course Description: Dynamics of particles and rigid bodies. Variational principle. Lagrangian and Hamiltonian formulation of mechanics. Canonical transformations. Hamilton Jacobi theory. Small oscillations.

Instructor: T.B.A.

Session: Winter Day

Evaluation: T.B.A.

Linguistics

Discipline Representative: D.M. James

Linguistics is the science of Language. For the linguist, language is a phenomenon of the human mind and of human society. Not all linguists are exclusively concerned with the description of language (an interest reflected in LINA01, LINB11, and LINB12) or the tracing of the history and development of languages (LINB12). Linguists draw on the findings of Philosophy, Psychology, Sociology, and Biology to create new frontiers of research. This new science is reflected in LINE07, JLPB55, JLPB5 and other courses.

Language is, of course, of interest to many people who see it as a humanistic and not a technical concern. To meet this interest we have designed such courses as LINA04 and LINB08.

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 may be of interest.

EB16	Ethnic Cultures of Canada
EB01	Old English Language and Literature
EB25	Introduction to French Linguistics
EB43	The French Language in Canada
EB46	Principles of Lexicology and Their Application to Modern French
EB06	History of German
EB80	Philosophy of Language
EB12	History of the Spanish Language

LINA01Y

General Linguistics

Exclusion: (LINA03)

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.

Instructors: M.W. Salus/P.H. Salus Session: Winter Day

Content: Who talks, why and where? Did you ever meet anyone who saw a talking dog? How did the first people learn to talk? How do you make talking noises? What are those noises like? How do you know what any of this means? How many languages are there anyway? Did you ever meet anybody who met anybody who saw a talking dog?

Teaching Method: Lectures, discussions, films, texts: Fromkin/Robins, Introduction to Language (1974); Gleason, Workbook in Descriptive Linguistics (1955).

Evaluation:

- 5 one-hour tests.
- 20-25 homework assignments.
- 1 Final Examination.

Exclusion:

LINA01

Course description: A general introduction to the nature of language. The relationship of written and spoken language. History of English and related languages. Languages of the world. The problem of bilingualism in Canada. Animal communication. Speech disorders.

Instructor: D.M. James.Session: Winter Day

Other Remarks: This is a non-technical introduction; it cannot be used as a prerequisite for further linguistics courses. Topics in addition to those listed in the course description will include: social attitudes towards language and language differences; the meanings of words; how language reflects culture; how languages affect each other; how children learn to speak.

Teaching Method: Lectures and discussions.Evaluation: Tentatively, two papers and a final examination.Prerequisite:

LINA01 or (LINA03) or SOCA01 or SOCA02

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: D.M. James.Session: Winter Day

Content: Specific topics will include: the extent to which culture is determined by language (specifically, the Whorf-Sapir hypothesis); language as an indicator of differences such as social class, ethnic group, sex, and geographical area, and cultural attitudes towards language differences; multilingualism and the national language question; and the structure of conversation.

Teaching Method: Lectures and discussions.Evaluation: Tentatively, four papers and two end-of-term tests (this would include a scheduled final examination).Prerequisite:

LINA04 or LINA01

Course description: Alphabets and other writing systems, their history, development and use. Hieroglyphs, Cuneiform, and other ancient scripts. History of the Latin and related alphabets.

Instructor: R.I. BinnickSession: Winter dayContent:

𐀀	𐀁	𐀂	𐀃	𐀄	𐀅	𐀆	𐀇	𐀈	𐀉
𐀊	𐀋	𐀌	𐀍	𐀎	𐀏	𐀐	𐀑	𐀒	𐀓
𐀔	𐀕	𐀖	𐀗	𐀘	𐀙	𐀚	𐀛	𐀜	𐀝
𐀞	𐀟	𐀠	𐀡	𐀢	𐀣	𐀤	𐀥	𐀦	𐀧
𐀨	𐀩	𐀪	𐀫	𐀬	𐀭	𐀮	𐀯	𐀰	𐀱

and so on.

Teaching Method: Lectures and discussion, some assignments.Evaluation:

One in-class examination.
One take-home examination.
I reserve the right to grade assignments, though these will probably not be used to calculate course grades; the class will be consulted on this point.

Prerequisite:

LINA01

Course description: The physiological and acoustic bases of language.

Instructor: D. WoodsSession: 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 transcription.

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.

LINB11Y Syntax and Semantics

Exclusion: (LINB03); (LINB06)
Prerequisite: LINA01 or (LINA03)

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: R.I. Binnick. Session: Winter day.

Content: Emphasis 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 or vice-versa? Semantics will be treated in a less formalistic way than syntax.

Teaching Method: Lectures, discussions, assigned problems.

Evaluation: Quarterly in-class examinations.
One term paper or take-home examination.
I reserve the right to grade the homework assignments, though these will not necessarily be used in determining the course grade; the class will be consulted on this point.

LINB12Y Phonology and Historico-Comparative Linguistics

Exclusions: (LINB02); (LINB04)
Prerequisites: LINA01 or (LINA03); (Pre- or co-requisite after 1977-78; LINB09)

Course description: A study of the sound system of language, including phonetics, morphology, systematic phonemics, and universal phonological theory; a study of traditional historico-comparative linguistics, including familial and typological relationships. Dialect geography. The contributions of historical studies to modern universal linguistic theory.

Instructor: D. Woods 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 contribution to class discussion.

LINB15S

Developmental Psycholinguistics

Prerequisite: (LINB05) or JLPB55

Course description: The development of the facility for speech in childhood. Acquisition of a first language. The neurological prerequisites for speech and writing. This course is a continuation of JLPB55.

Instructors: M.W. Salus/P.H. Salus 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.A.

Evaluation:

- 1 one-hour test.
- 3 brief (3 page) "papers".
- 1 Final Examination.

LINC01F

Supervised Reading

LINC02S
LINC03F
LINC04S

Prerequisite: At least one B-level course in Linguistics; permission of instructor.

Interested students should contact Professor D. James, Discipline Representative.

Mathematics

Mathematics has emerged over the centuries from primitive needs to count and to measure into a modern sophisticated system of interrelated axioms, theorems, conjectures and proofs. Some areas of mathematics are very abstract, being intellectual studies devoid, at present, of any practical application. Research in these branches of the subject arises from pure creative curiosity, from the need to understand, and to prove to others, that certain consequences follow rigorously, without ambiguity, from a set of precisely formulated mathematical definitions and axioms. However, many mathematical discoveries have very practical applications, because once a problem has been described in mathematical terms it is easier to analyze. Of course, not all problems can be formulated in this manner, but the applications of mathematics extend beyond the physical sciences and engineering to all areas of knowledge that are subject to quantitative analysis. Sometimes mathematical results guide and stimulate analogous scientific research, and sometimes mathematical theories originate in science, leading on the one hand to more abstract theorems and on the other to further application.

The mathematics programme is divided into four sections:.

(a) MATA22 is a pre-requisite for some non-science programmes. Completion of this course does not qualify the student to proceed to further courses in Mathematics or Computer Science.

(b) MATA26; B41-B42, B52-B57, C41, JPMC42
These courses, primarily for science and social science students, emphasize practise in mathematics, rather than full rigour.

(c) JMPB50-51
A course in logic, listed as a joint course in mathematics and philosophy.

(d) All other courses in mathematics emphasize rigour. Many of these courses are required for major programmes in mathematics or physics.

The student of mathematics should also consult the list of courses offered under "Computer Science".

LEVEL - CALCULUS COURSES

MATA55	Calculus
Winter, Scarborough	
MATA26Y	Calculus with linear algebra
Winter, Summer Evening, Scarborough	
MATA22Y	Techniques in calculus
Winter, Scarborough	

COMPARISON

MATA55 is a theory course. The emphasis is on why theorems are true (hence on rigorous proofs) and students are expected to learn how to prove theorems. This course together with MATA40F-MATA45S is essential for students who wish to specialize in mathematics or theoretical physics.

MATA26 is a practical course, taught at a high level. There is no attempt to provide rigorous proofs. On the other hand, students are expected to learn to solve difficult and sophisticated problems, and to master the necessary techniques. There is an emphasis on applications. MATA26 is advisable for students who wish to take some courses in physical science or mathematics in higher years. Students enrolling in MATA26 will be expected to be familiar with the material of Grade 13 calculus.

MATA22 is a technique of calculus course for students who have had no previous experience with the subject. It covers less material than MATA26, and at a less intensive level. It is intended for students who do not intend to take further mathematics or physical science courses.

A student who completes MATA55 and MATA40-A45 may take any of the second year mathematics courses. A student with MATA26 may take the sequel course MATA41-42 in second year, and its sequel in third year. He/she is however barred from certain advanced second and third year courses. A student should enrol in MATA22 only if he/she does not wish to take further mathematics courses.

MATA22Y Techniques of Calculus

Exclusions: MATA26; MATA55

Prerequisite: One Grade 13 course in Mathematics

Course description: Inequalities and absolute values. The real line. The Cartesian plane. Basic trigonometry. Functions. Limits. Continuity. Derivatives. Extremum problems. Applications to physics and economics. Graph sketching. Rolle's theorem. The mean value theorem. Taylor series. L'Hospital's rule. Integrals as areas. Indefinite and definite integrals. Elementary transcendental functions. Applications of integration.

Instructors: P. Leah & A. del Junco Session: Winter Day

Teaching Method: Lectures and Tutorials

Evaluation: Tutorial problem sets
4 tests
Christmas Examination
Final Examination

MATA26Y Calculus with Linear Algebra

Exclusion: MATA22; MATA55 Prerequisite: Grade 13 Calculus

Course description: Inequalities. Absolute value. Functions of a single variable. Limits and continuity. The derivative. Techniques of differentiation. Applications to related rates, extremum problems, and problems in Physics and Economics. Graph sketching, including asymptotic behaviour. Rolle's theorem. Mean value theorem. Taylor's series. L'Hospital's rule. Indefinite and definite integrals. The fundamental theorem. Elementary transcendental functions. Techniques of integration. Application of integration. Vector spaces. Linear equations. Matrices. Determinants.

Instructors: R. W. Sharpe & 3 others Sessions: Winter Day
Winter Evening

Evaluation: Weekly homework assignments
4 two hour mid-term examinations
1 Christmas examination
1 Final examination

MATA40 Introduction to Linear Algebra

Prerequisite: Grade 13 Functions and Relations or Grade 13 Calculus or Grade 13 Algebra

Course description: The study of vector spaces. Norms. Dot products. Cross products. Subspaces. Linear independence. Bases. Dimension. Matrices. Systems of linear equations. Linear transformations. Matrix of a linear transformation. General applications.

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

Content: 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.

Teaching Method: Two hours of lectures a week plus a weekly 2-hour tutorial session.

Evaluation: Two 2-hour term tests, to be written in the evening.
A Christmas exam
Weekly problem sets

MATA45S Linear Algebra I

Prerequisite: MATA40

Course description: A generalization of the topics covered in MATA40 to abstract vector spaces. Eigenvalues. Eigenvectors. Change of basis. Diagonalization of a matrix.

Instructor: T. Callahan Session: Winter Day

Content: 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.

Teaching Method: Two hours of lectures/week plus a weekly 2-hour tutorial

Evaluation: 2 two-hour term tests written in the evening
Weekly homework assignments
1 Final Examination

MATA55Y

Calculus

Exclusions: MATA22; MATA26.

Prerequisites: Grade 13 Functions and Relations; Grade 13 Calculus

Course description: Continuity. Differentiation. Riemann integral. Sequences. Series. Taylor's theorem. Introduction to functions of two variables. Emphasis on rigour and proofs.

Instructor: R. Delver

Session: Winter Day

Teaching Method:

Lectures, Tutorials, Assignments & Test.

Evaluation:

- 1) Weekly assignments
- 2) One term test per term (Oct and Feb) (for 2 hours)
- 3) 3 hour mid-term (Dec.)
- 4) 3 hour Final Exam

MATB25Y

Geometry

Exclusions: (MATB30); (MATB35)

Prerequisite: MATA45

Course description: Isometries in Euclidean plane and space. Similarities. Inversion in a circle. The inversive plane. Circle preserving transformations. Non-Euclidean geometry. Projective and affine geometry. Finite geometries. Free completions. The theorems of Desargues and Pappus. Projectivities, homologies, elations. The fundamental theorem of projective geometry.

Instructor: G. Gunther

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: Three hours of lectures a week.

Evaluation: 2 tests during lecture hours each term and weekly problem sets.

MATB40F

Linear Algebra II

Prerequisite: MATA45

Course description: Axiomatic vector spaces.

Rank and dimension theorems. Bilinear forms. General scalar products. Index of nullity. Sylvester's theorem. Inner product spaces. Quadratic forms. Applications to critical point theory. Symmetric operators. Unitary operators. Polynomials. Characteristic and minimal polynomial. Triangulation and diagonalization. Spectral theory.

Instructor: E. Ellers

Session: Winter Day

Content: This course MATB40F (followed by MATB45S) is designed for students who intend to pursue further studies in Mathematics and Sciences. The emphasis will be on concepts and their logical relations. The course will enhance the intuition by discussion of examples, counterexamples and problem solving.

Evaluation: There will be tests and a final examination.

MATB41F

Techniques of the Calculus of Several Variables I

Prerequisite: MATB50

Prerequisites: MATA26 or MATA55

Course description: Equations of lines and planes. Geometric representation of functions of several variables. Partial derivatives, directional derivatives and the gradient. Maxima and minima including classification of critical points and the method of Lagrange multipliers. Curves, vector fields and line integrals. Divergence and the Laplacian.

Instructor: S. Halperin

Session: Winter Day

Teaching Method: Lectures and tutorials.

Evaluation: Weekly problem sets, mid-term test, final examination.

MATB42S Techniques of the Calculus of Several Variables II

Exclusions: MATB50, MATB55

Prerequisite: MATB41

Course Description: Double and triple integrals together with applications to geometry and physics. Various coordinate systems and change of variables in multiple integrals. Surface integrals. The theorems of Gauss and Stokes. Sequences and series of numbers and functions. Taylor series and Fourier series.

Instructor: S. Halperin Session: Winter Day

Teaching Method: Lectures and tutorials.

Evaluation: Weekly problem sets, mid-term test, final examination.

MATB45 S Linear Algebra III

Prerequisite: MATB40

Course description: Orthogonal, symplectic and hermitian spaces. Isometries. Reflections. Witt's theorem. Isotropic subspaces. The orthogonal group. The general linear group. Tensor products. Exterior algebra.

Instructor: E. Ellers Session: Winter Day

Content: see note on MATA40F

Evaluation: There will be tests and a final examination.

MATB50 F Analysis

Exclusion: MATB41

Prerequisites: MATA45; MATA55

Course description: Partial Derivatives. Implicit differentiation. Extrema of functions with side conditions. Series of functions. Uniform convergence. Limit and derivative under the integral sign. Multiplication, differentiation and integration of series. Power series. The calculus of vector functions.

Instructor: P. Leah Session: Winter Day

Evaluation: T.B.A.

MATB51F Differential Equations I

Prerequisites: MATA40; MATA55

Corequisite: MATB50

Course Description: Equations with separable variables. Homogeneous equations. First order linear equations. Exact differentials and integrating factors. Equation of Bernoulli. Clairaut equation. Reducible second order equations. First order equations of higher degree in algebraic form. Envelopes. Orthogonal trajectories. The laws of Kepler and Newton. Second order linear equations with constant coefficients and Euler's equations. General second order linear equations. Wronskian. Variation of parameters. Boundary and initial value problems. Green's function. Adjoint operators. Power series solutions of second order equations.

Instructor: I. Kupka Session: Winter Day

Evaluation: T.B.A.

MATB52F Probability and Statistics I

Exclusions: PSYB07 Prerequisite: MATA26 or MATA55

Course description: Sample space, random variables, univariate and bivariate distributions. Point and interval estimations. Tests of significance, parametric and non-parametric. Selected applications to Psychology, Sociology, industrial problems, medical research, etc.

Instructor: T.B.A.

Evaluation: 10 homework assignments
3 quizzes
final examination

MATB55S Analysis II

Exclusion: MATB41 Prerequisite: MATB50

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: P. Leah Session: Winter Day

Evaluation: Term Work
Final Examination

MATB56S Differential Equations II

Prerequisites: MATA45; MATB51

Course description: Metric Spaces. Banach's fixed point theorem. Lipschitz condition. Existence and uniqueness of solutions. Global qualitative analysis of solutions. Higher order linear equations. Formula of Abel-Jacobi-Liouville. First order linear systems. Fundamental matrix. Jordan normal form. Boundary and initial value problems. Green's matrix. Introduction to calculus of variations and to dynamical systems.

Instructor: I. Kupka Session: Winter Day

Evaluation: T.B.A.

MATB57S Probability and Statistics II

Prerequisite: MATB52

Course description: Regression and correlation. Analysis of variance. Distributions of functions of random variables. Characteristic functions. Sufficiency. Efficiency. Completeness. Likelihood estimates. Selected applications to Psychology, Sociology, industrial problems and medical research.

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

Evaluation: 10 homework assignments
3 quizzes
Final examination

MATB70 S Introduction to Number Theory

Prerequisite: MATA45

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: MATB70S will be an exploratory course. The material to be studied will be chosen on its own merit, not for its future usefulness. Number theory is one of the oldest and most beautiful branches of pure mathematics and this course should provide an idea of why it has fascinated mathematicians for so long. It is not intended to be a difficult course but enthusiasm and hard work will be essential.

Evaluation: Two or three 2-hour lecture examinations
Problem sets (3 or 4 per month)

AC32 S Advanced Topics in Mathematics

Prerequisites: MATB40, MATB50

Course description: A survey of different trends in the mathematics of this century. The course content and the prerequisites change yearly. Manifolds. Critical point theory. Mathematical economy. Calculus in Banach spaces.

Instructor: R. Sharpe Session: Winter Day

Evaluation: Frequent homework assignments
1 mid-term examination
1 final examination

MATC41 F Applied Differential Equations

Exclusion: MATB51 Prerequisite: MATB42 or MATB55

Course description: Ordinary differential equations and applications. First order equations. Approximate solutions. Second order equations. Boundary value problems. Eigenvalue problems, special functions. Approximate solutions.

Instructor: I. Kupka Session: Winter Day

Evaluation: T.B.A.

MATC44F Algebraic Structures I

Exclusion: (MATC46)

Prerequisites: MATA45 and one other B-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: S. Pierce Session: Winter Day

Evaluation: T.B.A.

MATC49 S Algebraic Structures II

Exclusion: MATC46

Prerequisite: MATC44

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 n -gon, and the trisection of an angle. The structure of finite division rings and of division rings over the real numbers.

Instructor: S. Pierce Session: Winter Day

Teaching Method: Lectures

Evaluation: T.B.A.

MATC50F Real Analysis I

Prerequisites: MATB40, MATB55

Course description: Algebra of sets. Mappings. Schroder-Bernstein theorem. Axiom of choice. Metric spaces. Compactness. Completeness. Separability. Baire's theorem. Arzela-Ascoli theorem. Hausdorff spaces. Local compactness. Tychonov's theorem.

Instructor: A. del Junco Session: Winter Day

Evaluation: T.B.A.

MATC54 F Differential Geometry I

Prerequisite: MATA45
Corequisites: MATB51, MATB55

Course description: Summary of differentials, inverse and implicit function theorems and their geometrical interpretation. Parametric curves and surfaces in R^3 , singular points, tangent lines, tangent planes. Global definition of curves and surfaces in R^n . Manifolds. Tangent and normal structures. Regular and critical values of smooth maps. Pre-images. Transversality. Images of smooth maps. Vectorfields. Integral curves. Exterior differential of 1 and 2-forms. Theorems of Gauss and Green.

Instructor: R. Delver Session: Winter Day

Evaluation: T.B.A.

MATC55S Real Analysis II

Prerequisite: MATC50

Course description: Lebesgue integral in R and R^k Borel sets. Measurable sets. Lebesgue bounded convergence theorem. Fubini theorem. Hilbert and Banach spaces. Dual spaces. Linear mappings. Hahn-banach theorem. Closed graph theorem. Applications to L^2 and L^p . Compact operators, Fredholm operators. Fredholm alternative. Spectral theory of compact operators. Applications to integral equations and to the Dirichlet problem.

Instructor: A. del Junco Session: Winter Day

Evaluation: T.B.A.

MATC57S Probability Theory and Stochastic Processes

Prerequisites: MATA55, MATB52

Course description: Probability theory (extending elementary results) especially conditional probability. Random 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: T.B.A. Session: Winter Day

Evaluation: 10 homework assignments

MATC60F Complex Analysis I

Prerequisite: MATB55

Course description: Complex arithmetic. Polynomials and elementary functions. Differentiation and the Cauchy Riemann equations. Cauchy's integral formula for differentiable functions and their Taylor expansion. Properties of analytic functions including Liouville's theorem, identity theorem, maximum modulus theorem and open mapping theorem. Laurent expansion and classification of isolated singularities. Residue calculus.

Instructor: S. Halperin Session: Winter Day

Teaching Method: Lectures

Evaluation: Problem sets, mid-term test, final examination.

Prerequisite: MATC60

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: S. Halperin

Session: Winter Day

Teaching Method: Lectures

Evaluation: Problem sets, mid-term test, final examination.

Discipline Representative: T. McGee

is considered one of the liberal arts. The approach to the subject is historical and humanistic, and these courses differ in some respects from those designed for composers and performers. Performing skills are not required for this kind of study. It is expected that courses will vary from year to year.

SA01Y

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 formal construction, style characteristics, and its relationship to trends in art and society. The evolutionary aspects of the various period styles is emphasized as well as the individual characteristics of selected works.

Teaching Method: Three lecture hours per week.

Evaluation:

2/3 tests and term paper
1/3 final exam

Prerequisite: MUSA01 or MUSB08

Course description: Tracing the various trends of music in the present century from Debussy to the most recent electronic and multimedia presentation. Concentration will be on particularly influential composers as well as a look at the influence of jazz.

Instructor: T. McGee

Content: Selected compositions of Debussy, Schoenberg, Stravinsky, Stockhausen are analyzed in detail as representatives of a large repertory of material written in similar styles.

Teaching Method: two hours per week - lecture and class discussion.

Evaluation:

1/3 exam
1/3 class participation
1/3 term paper

Prerequisite: MUSA01 or MUSB08

Course description: A comparative study of the three classic masters involving all categories of their work. The music will be studied in connection with the general cultural and political developments of the time.

Instructor: T. McGee

Session: Winter Day

Content: Selected scores will be studied in detail in an investigation of the composers' styles.

Teaching Method: two hours per week - lecture and class discussion.

Evaluation:

1/3 exam
1/3 class participation
1/3 term paper

Course description: A study of the elements of musical structure approached from hearing and reading. No previous musical training is required.

Instructor: M. Rubin

Session: Winter Day

Objectives: A non-historical look at music, intended for students interested in mechanics, techniques, and "art" of music (as opposed to the historical study of A01Y). Students will devise and learn a variety of ways to approach a musical composition: aurally and visually, aesthetically, technically, etc.

Content: Early classes will concentrate on musical materials ("language"); the rest of the course will apply this knowledge to a few musical masterpieces ("literature"); the final section will probe the nature of the perceptual process in music ("aesthetics").

Teaching method: 2 hrs. a week--lecture, discussion, and prepared assignments: listening, reading, and writing.

Assessment: 1 musical materials test; 1 one-hr. exam; 1 three-hr. final exam. Two exams will allow students to use the analytical and perceptual skills developed in class on a piece of music specially assigned for each exam.

Prerequisite: 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. McGee/G. Crighton 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.

Content: 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.

MUSB10H Supervised Performance II

Prerequisite: MUSB09

Course description: A continuation of MUSB09H.

Instructor(s): T. McGee/G. Crighton Session: Winter Day

Objectives: For further information see Music B09.

Evaluation: to be announced later.

Natural Science

PHYS

Introduction to Natural Science: Physical Science

Course description: A primarily non-mathematical treatment of the basic and applied physical sciences, designed for students whose major interests lie outside of Science. Basic questions discussed include: the history of physical science; scientific method; pseudosciences; dimensional analysis; principles of mechanics; theory of gravitation; oscillating systems; quantum mechanics; symmetry and physical laws; relativity theory; the statistical character of natural phenomena. Applications include: studies of speed and size; magnetic and electric phenomena; the physics of music and the physics of colour; nuclear and other energy sources and some of the philosophic and social implications of modern science. Considerable use is made of films and demonstrations to supplement the lectures. Much of the tutorial time is devoted to discussion. Reading and essay writing are an important part of the course.

Instructor: H. C. Corben Session: Winter Day

Prerequisite: Not open to students who have passed PHYA01 or PHYA02

Other Recommended Courses: MATA22, PHLB70F

Content: An emphasis on the historical development of concepts in physical sciences, from earliest times to the present. It will be necessary for students to work problems involving simple algebra and arithmetic, but no calculus.

Bibliography: Gerald Holton, 'Introduction to Concepts and Theories of Physical Science' (Addison-Wesley, 1973)

Evaluation: Problems, Two mid-term Tests, Christmas Test, Two essays, Final Exam, extra reading.

Exclusion: Not open to students who are taking or have taken BIOA03

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 categories: Man, inheritance and society; population and resources; the cybernetics of ecosystems. Reading and essay writing will be an integral part of the course, supplemented by lectures and discussion periods.

Instructors: I.Campbell/J.C.Ritchie 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-topic essay and one choice-topic essay (optional formats available). In the spring term 2 problems sets will be assigned. Essays & problem sets - 50% final mark. Examinations - 50%.

Prerequisite: One of ANTA01, BIOA03, (GGRA07), GGRA04, GGRA05, GLGA01, NSCA02 (it is strongly recommended that students have a background in one other of the areas listed).

Course description: A multidisciplinary course designed to introduce the study of the events and processes that have shaped the physical, biological and cultural aspects of the world in which we live. Specifically, the course will emphasize the inter-disciplinary nature of the diverse fields investigating the last major period in the earth's history, the Quaternary. Included in the presentation will be the findings and methodologies of such disciplines as Geology and Geomorphology, Historical Ecology and Prehistoric Archaeology. The format will consist of lectures, tutorials, demonstration laboratories and independent assignments.

Instructors: B.Greenwood (Geography), M.R.Kleindienst (Anthropology) J.C.Ritchie (Biology), H.B. Schroeder (Anthropology), J.A.Westgate (Geology).

Session: Winter Day

Teaching Method: Two hours of lecture and one hour of laboratory/tutorials per week, plus several one-day field trips during the fall.

Evaluation:

- 1) one term test and a final exam
- 2) field trip reports, lab exercises
- 3) one research report

Philosophy

Discipline Representative: H.J. Sobel

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 positions in these areas, to clarify the principles on which they are founded, to evaluate such beliefs for their soundness, and to explore their implications for a comprehensive understanding of the world in which we live. Philosophy originates in the desire to know, and its value consists of the systematic development of a questioning attitude and critical awareness.

Course offerings in Philosophy form a two-year cycle: those not offered in 1977-78 will be available in 1978-79 while PHLA01, PHLB01, PHLB20, JMPB50, PHLB60 and PHLB61 are offered every year. It should be noted that in almost all areas Fall/Spring sequences are offered which when combined provide the equivalent of a full year course at the B-level. These sequences are usually scheduled in the same time slot. The B-series of courses is arranged in decade units according to areas within Philosophy, not in order of difficulty.

Further information about Philosophy may be obtained from the Discipline Representative, H513.

PHLA01Y:1

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: D.L. Mosher

Session: Winter Day

Content: In this course there are four 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); (3) questions about the nature, use and justification of moral values and the whole institution called "the moral way of life" (questions in ethics); and (4) questions about the nature, use and justification of claims to believe or to know that something is or is not the case (epistemological questions).

Texts:

Richard Taylor, Metaphysics (2nd ed.); Wesley Salmon, Logic (2nd ed.); William Frankena, Ethics (2nd ed.); Roderick Chisholm, Theory of Knowledge (latest ed.).

Evaluation: To be advised

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: P.W. Gooch

Session: Winter Day

This section discusses some philosophical problems of perennial interest both in their classical form and in contemporary treatment. We begin with Plato's Meno and with selections from The Last Days of Socrates (both Penguin); we read Augustine's On Free Choice of the Will and Descartes' Meditations; and we examine a present-day discussion of their themes in R. Taylor's Metaphysics. In this way, we are introduced to questions about the nature of persons and their relationships to their bodies; freedom and determinism; the existence and nature of God; and some problems in ethics.

There are fairly informal lectures, and discussion groups.

Evaluation takes place through some smaller papers (which analyze texts and arguments), longer essays (which develop philosophical positions) and tests (which fill in gaps and aid the process of review and consolidation). The exact number of assignments is decided at the beginning of the course.

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: To be advised.

Session: Winter Day

Further information on this course will be available later in Room H-525A.

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: B. Powell

Session: Winter Day

Content: The course will be problem-oriented.

Timing and Method of Evaluation: To be announced.

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: H. Herzberger

Session: Winter Day

Teaching Method: A mixture of lectures and discussions. Material from one or more philosophical classics together with a basic anthology of shorter selections. Weekly discussion sections will be focussed around issues raised in the texts and supplementary study questions which will occasionally be provided.

Evaluation: Several short expository exercises, two research papers, and class tests (number and weighting to be negotiated with the members of the class during the first week of term).

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: H.J. Sobel

Session: Winter Evening

Content/Objectives: An introduction to philosophy consisting of consideration of topics drawn from the major divisions of the subject: metaphysics, theory of knowledge, philosophy of religion, ethics and logic. Questions taken up include: What can I know? Can I know I exist? Can you know I exist? Can either of us know anything other than our present state of mind? Is there a God? Are we free? Ought I to concern myself with the interests of others? Can I? Is life ultimately without meaning? If it is, what should I do? Rail against it? Cry? Smile? Forget it? (Or none of the above).

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 Leibniz, and works of recent and contemporary philosophers. The emphasis throughout is on analysis, clarification of ideas, and most of all on the examination and criticism of arguments and reasons for taking up various philosophic positions. One section of the course, occupying several weeks, is an introductory examination of principles of logic and argument, an introduction to some of the tools that in other parts of the course are informally and often only implicitly in use.

Evaluation: To be announced later.

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: D.L. Mosher

Session: Summer Day

Content: In this course there are four 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); (3) questions about the nature, use and justification of moral values and the whole institution called "the moral way of life" (questions in ethics); and (4) questions about the nature, use and justification of claims to believe or to know that something is or is not the case (epistemological questions).

Texts:

Richard Taylor, Metaphysics (2nd ed.); Wesley Salmon, Logic (2nd ed.); William Frankena, Ethics (2nd ed.); Roderick Chisholm, Theory of Knowledge (latest ed.).

Evaluation: To be announced later.

Course Description: A study of philosophical problems and postures in ethics such as the relativity of values, the justification of morality, moral scepticism, ethical egoism, utilitarianism, nihilism.

Instructor: P.W. Gooch

Session: Winter Day

Content: This course is an introduction to some basic problems in ethics: whether all values are relative; whether man is inescapably self-centred in his conduct and morality; whether an action is right because it leads to the greatest happiness of the greatest number, or because it is our duty pure and simple, or because it is commanded by God; whether pleasure is the ultimate criterion of goodness; whether we can be held responsible for any actions; whether punishment is morally justifiable; whether all coercion is bad; and so on.

The basic texts are two in the Prentice Hall series: W.K. Frankena, Ethics (second edition), and Joel Feinberg, Social Philosophy. Additional readings will be assigned.

There will be a short paper (to analyze an argument), a longer essay (to develop a philosophical position) and a test (to consolidate the material).

Evaluation: To be announced later.

Course description: An examination of the moral questions surrounding some of the following: abortion, capital punishment, human sexual relations (homosexuality, adultery etc.), eugenics, ecology, civil disobedience, policies toward the Third World, and toward the poor.

Instructor: To be advised

Session: Winter Evening

Further information on this course will be available later in Room 525A.

Course Description: A study of philosophical problems of the state and society such as the individual in society, the coercive state, the stateless society.

Instructor: W.C. Graham

Session: Winter Evening

Content: A consideration of the thought of some of the following philosophers: Hobbes, Locke, Rousseau, Hegel, Marx, Bakunin, and others. This course aims to investigate the nature of the state as a political and social form of organization.

Method and evaluation: Lectures and discussions. Students will be expected to participate in discussions. Two short or one major paper. One examination.

Course description: An analysis of the various definitions of education, and the nature of knowledge, learning, explaining and understanding (e.g. what are the criteria for a satisfactory explanation? when can something be said to be understood?).

Instructor: R.P. Thompson

Session: Summer Evening

Content: An examination of three basic issues: (1) the Concept of education (e.g. the nature of knowledge, the aims of education, the relationship of knowledge and understanding, etc.), (2) Ethical foundation of education (e.g. the concepts of equality, worthwhile activity, freedom, etc.), (3) Education and Social Control (e.g. the concepts of authority and punishment, the relationship of democracy and education, etc.)

Teaching Method: Lectures and discussion.

Evaluation:

Either two short essays (1000-1500 words) or one longer essay (2000-2500 words).

A take home test.

Bibliography:

Winters, R.S. Ethics and Education. London: George Allen and Unwin Ltd., 1970.

Course Description: What is the relation between law and morality and between law and custom? What is justice? How are concepts such as responsibility, intention, negligence treated in the law? What is legal reasoning like?

Instructor: André Gombay.

Session: Summer Evening

Content: The course will begin with the detailed study of one recent legal case - Queen vs. Dr. H. Morgentaler - and consider some philosophical problems about the law which arise from it: what is the purpose of the judiciary process? what is legal responsibility? what is the relation between law and morality?

Bibliography:

Supreme Court of Canada: Queen vs. Dr. Morgentaler (mimeographed)

Feinberg and Gross (eds): Legal Philosophy.

Evaluation: To be announced later.

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: To be announced. Session: Winter Day

Reading and Method of Evaluation: To be announced.

Further information available later from Room H-525A.

Course description: A study of central themes in the philosophy of Aristotle and in post-Aristotelian developments such as Stoicism, Epicureanism, Neoplatonism.

Instructor: W.C. Graham

Session: Winter Day

Content: A thorough examination of the thought of Aristotle.

Text: The Basic Works of Aristotle edited by Richard McKeon.

Method and Evaluation: Lectures, discussions, and (if desired) seminars. Students will be expected to participate in discussions. Short papers or one major paper, one examination.

Prerequisite: PHLB42

Course description: A continuation of PHLB42F

Instructor: W.C. Graham

Session: Winter Day

Content: A thorough examination of the thought of Aristotle.

Text: The Basic Works of Aristotle edited by Richard McKeon.

Method and Evaluation: Lectures, discussions, and (if desired) seminars. Students will be expected to participate in discussions. Short papers or one major paper, one examination

Course Description: A study of central themes in the philosophy of Christian, Islamic and Jewish thinkers such as Augustine, Boethius, Avicenna, Alfarabi, Maimonides, Anselm, Aquinas, Ockham.

Instructor: D.L. Mosher

Session: Winter Day

Text:

Isidore Hyman and James J. Walsh, Philosophy in the Middle Ages (Minneapolis: Hackett Publishing Co., [1973]).

Evaluation: To be announced later

Course Description: A continuation of PHLB44.

Instructor: D.L. Mosher

Session: Winter Day

Evaluation: To be announced later.

PHLB46F PHILOSOPHY IN THE EARLY MODERN AGE I

Exclusion: (PHLB71)

Course Description: Revolutions in Science and Philosophy involved men in a radical rethinking of the powers of reason, the limits of experience, and the nature of man and reality.

Instructor: B. Powell Session: Winter Day

Content: A study of Hume and Leibniz, especially of their differing views of human knowledge, through close reading of certain texts.

Reading and Evaluation: To be announced.

EXISTENCE AND REALITY

Description: In perceiving, categorizing and classifying reality, certain very basic concepts are employed. The course considers problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, causality, mind and value.

Instructor: D.L. Mosher Session: Winter Night

Content: We shall examine in some detail, by way of lecture, reading material and discussion, the following problems of metaphysics

- the nature and function of metaphysical thought,
- the nature of reality,
- being and substance,
- mind, body and the person,
- the world and God.

Reading: Richard T. DeGeorge, ed. Classical and Contemporary Metaphysics. New York: Holt, Rinehart and Winston (1962).

Evaluation: To be announced later

PHLB47S PHILOSOPHY IN THE EARLY MODERN AGE II

Prerequisite: PHLB46

Course description: A continuation of PHLB46.

Instructor: B. Powell Session: Winter Day

Content: Some main theses in the philosophy of Kant.

Reading and Evaluation: To be announced.

PHLB61F 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: P.W. Gooch Session: Winter Day

Topics considered in this course are as follows: arguments for God's existence; the problem of pain and suffering as a disproof of God's existence; the possibility of miracles; the possibility of life after death; the meaningfulness of language about God; the rationality of belief.

Texts will include: Steven M. Cahn (ed), Philosophy of Religion (Harper & Row), John Hick, Philosophy of Religion (Second Edition) (Prentice Hall), R. Swinburne, The Concept of Miracle (Macmillan), and some assorted articles.

There will be a short paper, a major essay, and a test.

EVALUATION: To be announced later.

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? In what sense does a Science tell us what the world is really like? What is causality and does it play a significant role in Science? How are theories justified?

Instructor: To be advised Session: Winter Day

Evaluation: To be announced later.

Prerequisite: One B-level course or half-course in Philosophy or Linguistics.

Course Description: Contemporary theories of meaning, reference, grammar and the nature of language.

Instructor: H. Herzberger Session: Winter Day

Content: Readings from Frege, Russell, Wittgenstein and other recent philosophers on the nature and functioning of names, concepts, propositions, truth and related topics.

Teaching Method: Expository lectures, with one hour each week devoted to critical discussion of the current reading, or of supplementary material in accordance with the interests of participating students.

Evaluation: Some mixture of short research papers and class tests will be negotiated during the first week of term.

Prerequisites: One B-level course or half-course in Philosophy or Psychology.

Course Description: An examination of the philosophical prepositions of psychological theories such as those of Freud, Jung, Behaviourism, and Existential Psychology. Problems such as the relation of mind and body, conscious and unconscious, the meaning of mentalistic concepts and the analysis of dreaming will be studied.

Instructor: B. Powell Session: Winter Day

Content: The course will especially discuss recent materialistic theories concerning brain-mind identity.

Readings and Method of Evaluation: To be announced.

Prerequisite: One full course equivalent in Philosophy.

Instructor: P.W. Gooch Session: Winter Day

Topic: The Rights of Children and Animals

PHLB01, Morality and Values, is essential as a prerequisite to the understanding of the material in this course. We will begin with J. Feinberg's Social Philosophy and his treatment of rights (that is, human rights). We will then look at Animal Rights and Human Obligations (edited by Regan and Singer, Prentice Hall), and also at the question of the rights of children (a text to be announced later). The course will also examine the implications of various positions on the question of rights for children and animals, such as education, discipline, and vegetarianism. In addition, there will be some discussion of so-called "environmental rights".

The details of evaluation will be decided at the beginning of the course: a short paper, an essay, and a test will be included.

Prerequisite: One full course equivalent in Philosophy, including PHLB80F or equivalent preparation in Philosophy of Language.

Course description: This course is designed for students who have done basic reading in semantics and philosophy of language; and who wish to pursue more advanced discussion of issues on the borderline between philosophy of language and other philosophical disciplines. Introduction to the theory of speech-acts; language as a social institution and as a medium for the expression of thoughts and emotions; and related topics.

Instructor: Hans Herzberger Session: Winter Day

Teaching Method: Lectures and discussion of assigned texts, with active student participation to be encouraged. The course will be conducted in part as a seminar, if conditions permit.

Evaluation: Some mixture of oral reports, short research papers, and written exercises will be negotiated during the first week of term.

PHLC88S

SEMINAR IN PHILOSOPHY

Prerequisites: Two B-level half-courses in Philosophy; permission of instructor.

Instructor: To be advised. Session: Winter Day

Further information on this course will be available later in Room H-525A.

PHLC95F/S
PHLC96F/S
PHLC97F/S
PHLC98F/S
PHLC99F/S

INDEPENDENT STUDIES

Prerequisites: Two B-level half-courses in Philosophy; permission of instructor.

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, the Earth on the motion of a satellite, the effect of a molecule on a neighbouring atom, or of an atomic nucleus on an electron, may be accurately described in terms of the general laws of Physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter can be understood in terms of the interactions between the individual parts 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-ray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications of the subject.

It is possible to develop, in mathematical language, theories that are so closely parallel to the development of physical phenomena that they may be used to accurately describe and even predict the results of many carefully controlled experiments. The study of Physics therefore requires some studies both of Mathematics and of the techniques that are needed in the performance of accurate experiments.

Students intending to specialize in Physics are advised to select their courses in accordance with the requirements of the Major Programme in Physics, described in the Calendar.

As intensive programmes are available for those whose major interests do not lie in Physics. Specifically, the pair of courses PHYA02 and PHYB06 cover many topics in Physics and the principles of their application to a number of areas of science. The laboratory courses PHYB08H and PHYC05H offer a wide spectrum of experiments to students of PHYB01 or PHYB06. Additional more specialized B-level courses are also open to students who have completed A-level Physics and Calculus courses.

Unlisted pre- and corequisites imply others not explicitly listed: Details are available from the Physical Sciences Group Office (Room R-4704).

Students interested in Physics should also refer to:
CA01Y Introduction to Natural Science: The Physical Sciences.

SEE THE FOLLOWING CORRECTION TO ITEM 3 IN CALENDAR, PAGE 67,
REGARDING THE PHYSICS MAJOR PROGRAMME -

"(3) In the third year of full-time study (or equivalent).
PHYC01Y; PHYC03Y; PHYC05H; PHYC42S; MATC41F;
MATC60F (or MATB51F+; MATB56S+; MATC60F; MATC65S)

+ Can be taken in second or third year."

Course Description: Motions of single particles and collections of particles from the point of view of Newtonian physics. Equilibrium of rigid bodies, kinetic theory of gases, mechanics of fluids, introduction to thermodynamics. A laboratory emphasizing most of these physical phenomena is part of the course.

Exclusions: PHYA02

Prerequisites: Grade 13 Physics or NSCA01,
Grade 13 Calculus.

Corequisites: MATA26 or MATA55.

Instructor: H. C. Corben Session: Winter Day

Content: Problem solving is a very important part of the course. A set of solutions to assigned problems must be handled in almost every week. Some lecture demonstrations, but most experience with experimental work is gained in the accompanying laboratory course, which it is essential to pass in order to pass the course.

Teaching Method: Two lecture hours and one tutorial hour per week. One laboratory session every two weeks.

Evaluation: Two mid-term tests, Christmas examination, Final Examination, Problem sets, Laboratory.

Bibliography: Physics Part I by R. Resnick & D. Halliday (Wiley, 1977)

PHYA02Y

PRINCIPLES OF CLASSICAL PHYSICS

Exclusions: PHYA01Y

Corequisites: MATA22 or MATA26 or MATA55.

Course Description: This course with its associated laboratory offers a survey of the principles of Classical Physics. It is complete in itself, but also provides a foundation for those wishing to take a survey course in Contemporary Physics, such as PHYB06Y. However, it is not designed for those who expect to continue with major studies in Physics. The topics include: newtonian mechanics, laws of motion, momentum, energy, simple harmonic motion, gravitational forces, electricity and magnetism, properties of fluids, kinetic theory, laws of thermodynamics.

Instructor: J.M. King Session: Winter Day

Teaching Method: Two hours of lectures (with discussion and demonstrations), one hour of tutorial per week, three hours laboratory every second week. A drop-in centre is open for additional tutorial assistance, including 1-3 p.m. on Fridays.

Text: R.L. Armstrong and J.D. King, Mechanics, Waves, and Thermal Physics, (Prentice-Hall).

Evaluation:

1 problem set per week	10%
4 mid-term exams	15%
laboratory work	15%
term exam	25%
final exam	35%

ELECTRICITY AND MAGNETISM

Prerequisites: PHYA01 (recommended) or PHYA02

Corequisites: MATB41 or MATB50

Recommended Courses: MATB42 or MATB55; PHYB08H (a laboratory course) would also be helpful.

Course description: Electrostatics; electric field and potential; electric currents; direct current circuits; special relativity and Lorentz transformation; magnetic field and vector potential; fields of moving charges; transformation of fields; electromagnetic induction; Maxwell's equations and wave propagation; introduction to electric and magnetic fields in matter; alternating current circuits.

Instructor(s): P.A. Griffin, J.M. Perz 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 thorough understanding of fundamentals, and on logical reasoning and proofs and problem solutions.

Bibliography: Text: Electricity and Magnetism by E.M. Purcell, McGraw-Hill (1965).

Evaluation: Term test in December, final examination in April/May, and problems sets, each to count for approximately 1/3 of the final grade.

PHYB04F

Waves

Prerequisite: PHYA01 or PHYA02; MATA26 or MATA55

Course description: Topics discussed include wave equations, superposition of waves, emission and absorption of waves, impedance, polarization, interference, and diffraction. Applications are made to sound waves, radio waves, light waves, surface water waves and waves on a string.

Instructor: P. J. O'Donnell Session: Winter Day

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

Evaluation: Based on problem sets, one term test and a final three hour examination.

Exclusions: PHYB14F; PHYB15S.

Prerequisites: PHYA02Y or PHYA01Y; MATA22 or MATA26 or MATA55.

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 PHYA02Y. 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: M.J.G. Lee, M.B. Walker.

Session: Winter Day

Teaching Method: Two lectures and 1 tutorial per week. Problem sets will be discussed in detail in a weekly tutorial.

Bibliography: The text is "Fundamentals of Waves, Optics, and Modern Physics" by H.D. Young, 2nd Edition (McGraw-Hill, 1976). An alternative is "Classical and Modern Physics", Vol. 3, by Ford (Xerox, 1972). The lectures will not follow either book that closely.

<u>Evaluation:</u>	Christmas exam	25%
	Final exam	35%
	Two Midterms	20%
	Problem Sets	20%

PHYB08H Intermediate Physics Laboratory

Prerequisite: PHYA01 or PHYA02

Corequisite: PHYB01 or PHYB06

Course description: Experiments are provided that deal with basic electricity and magnetism, electronics, solid state physics, and atomic and nuclear physics (illustrating material covered in lecture courses PHYB01 and PHYB06).

Instructors: M.J.G. Lee, J.M. Perz

Session: Winter Day

Teaching Method: A six-hour laboratory period once every two weeks. (Note that this may be broken into two intervals to accommodate a student's timetable). A single experiment may extend over more than one period. Students are expected to plan their experiments thoroughly beforehand, discussing their approach with one of the instructors or demonstrators. Observations including numerical data must be recorded carefully and thoroughly.

Bibliography: Intermediate Physics Laboratory Manual, available in the laboratory. This contains references to other sources, a number of which are available for consultation in the laboratory.

Evaluation: This will be based, with equal weight, first on the preparation and performance of the experiment, and recording of observations and data, and secondly on four formal laboratory reports.

Additional Comments: At the beginning of the course, a set of 3 or 4 hours of lectures will be given on electrical circuit theory, for the benefit of those who wish to do experiments in that area. (Attendance will be voluntary).

Limited Enrolment - under 20

Exclusion: CHMB03

Prerequisites: MATB41 or MATB50, PHYA01 or PHYA02

Corequisite: PHYB05, MATB42

Course description: General principles of classical thermodynamics including the first, second and third laws and applications. Lectures are the same as those for the spring term half of CHMB03Y; problems presented towards applications in physics will be provided.

Instructor(s): G.A. Kenney-Wallace
A. Griffin

Sessions: Winter Day

Content: As noted in the course description of the second half of CHMB03Y.

Teaching Method: Two lectures per week and one additional hour to be used as a tutorial or lecture at the discretion of the instructor.

Evaluation: Tentatively to be: problem sets (25%), one hour test (20%), final exam (45%).

PHYB17S

Introduction to Quantum Physics

Exclusion:

PHYB06

Prerequisites:

PHYB04, (MATB41 or MATB50).

Course Description:

Experimental evidence of the need for quantum physics (photoelectric effect, atomic spectra, matter waves, black-body radiation). Wave packets and the Schrödinger equation. Energy quantization, tunnelling, the harmonic oscillator. Quantization of angular momentum and spin.

Instructor: P.J. O'Donnell

Session: Winter Day

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

Evaluation: Based on problem sets, one term test a final three hour examination.

Prerequisites: PHYB01, MATB50 or (MATB41 and MATB42)

Course description: Introduction to the basic ideas of quantum mechanics and to its applications in Modern Physics.

Instructor: A. Griffin and A. E. Jacobs Session: Winter Day

Content: Development of quantum physics during the first quarter of the present century. Schrödinger's equation, Heisenberg's matrix mechanics and their inter-relation. Correspondence Principle. Applications to simple harmonic oscillators, to particles confined in a box, and to hydrogen-like atoms. Simple scattering problems, tunnel effect. Approximation methods with application to the helium atom and the hydrogen molecule. Quantization of angular momentum. Electron spin. Isospin and other quantum numbers of particles and nuclei. Rotation and vibration of molecules and atomic nuclei. Excited states of quantized systems. Spontaneous and stimulated emission of electromagnetic radiation. Energy bands in periodic potentials.

Evaluation: Problem sets and term tests.

Reference: "Quantum Physics of Atoms, Molecules, Solids, Nuclei and Particles" by R. Eisberg and R. Resnick

Prerequisite: PHYB08
Prerequisite: PHYC01

Course description: A selection is made of a number of advanced and detailed experiments illustrating fundamental principles and techniques in Physics.

Instructors: M.J.G. Lee, J.M. Perz Session: Winter Day

Objectives: This course is designed to involve students in some more complex experiments, introducing them to vacuum techniques, X-rays, nuclear instrumentation, etc. Students will work with a minimum of supervision and will be responsible for overcoming experimental difficulties.

Teaching Method: A six-hour laboratory period once every two weeks (some accommodation can be made to overcome a student's timetable difficulties). A single experiment may extend over more than one period.

Bibliography: Documentation for individual experiments is available in the laboratory.

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.

Limited Enrolment - under 20

PHYC03Y Electromagnetic Fields and Waves

Prerequisites: PHYB01, PHYB04; MATB41 or MATB50

Corequisites: MATB51 and MATB56 or MATC41

Other recommended course: JPAC08

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. Propagation of electromagnetic waves in infinite media (free space, nonconductors, conductors and low-pressure ionized gases); Poynting vector. Reflection and refraction of electromagnetic waves; Snell's law, Fresnel's equations, Brewster angle, total internal reflection, etc. Wave guides, TE, TM and TEM waves. Radiation of electromagnetic waves; antennae.

Instructors: M. Walker & A. Jacobs Session: Winter Day

Objectives: A thorough understanding of the material in this course is essential for students intending to pursue a career in physics at any level.

Bibliography: "Electromagnetic Fields and Waves" by P. Lorrain and D. Corson.

Evaluation: Two term tests and problem sets.

Political Science

There is no concise and satisfactory definition of "politics". Thus it has been suggested that politics is "the art of the possible", that politics is about the resolution of conflict and the accommodation of diverse interests, that politics is about power and "Who gets, What, When and How", that politics is about "the Good", and so forth. Indeed, in a sense the study of politics is a continuing exploration of these suggestions. But on the whole, as one writer has proposed, it is wiser "to start with ordinary usage, and to explore its implications, rather than to begin or end with a formal definition."

The academic study of politics ranges from philosophical speculation to the empirical analysis of political behaviour. As a discipline it is loosely constructed, although in recent years a more rigorous method has been employed in several fields. In fact, the scope of the subject reveals the impossibility of clearly separating Political Science from a number of other disciplines. At the same time, within the discipline of Political Science itself it is customary to recognize the existence of several major fields, i.e., Political Theory, International Relations, Comparative Government, Political Behaviour and Public Administration.

The Political Science Program at Scarborough College offers a broad and varied selection of courses from every field within the discipline. It is designed to 1) satisfy the needs of students who intend to pursue careers in government service and teaching, and in the legal and business professions; 2) prepare students who wish to go on to advanced graduate study within political science; 3) to offer an interesting range of courses to students who wish to explore in a less structured way the important questions of political inquiry.

Courses may be taken in varying sequences and combinations, leading to specialist certification for those completing an approved

10-course load over four years, or to certification for the completion of an approved specialized study program of recognized academic merit.

COURSE AND PROGRAM SELECTION

Students who intend to pursue some degree of specialization in Political Science should at an early moment, draw up a preliminary program of study in consultation with a member of the Political Science Staff.

The recommended sequence of courses would begin with an introductory course at the A level, (POLA01 Canadian Government and Politics; POLA02 Introduction to Political Theory; POLA03 Introduction to Comparative Politics). Students interested in domestic politics and careers in government should begin with POLA01 since it is a prerequisite for advanced courses in Canadian Government and Politics. Students intending to seek certification should register by filing the appropriate Registration form with the Divisional Secretaries in RS111. While supervision of final certification is the responsibility of the Supervisor of Studies, Professor Richard Johnston, you should consult with the faculty member you know best for guidance on course selection. An Orientation meeting will be scheduled in the early fall to help familiarize students with the aims of the political science program, as well as to introduce faculty responsible for teaching, and career and graduate study guidance.

POLA01Y

Canadian Government and Politics

Course description: A study of the political process in Canada, including: Canadian political culture; the formation of public opinion; political behaviour; political parties; the constitution; federalism; French Canada; federal-provincial financial relations; and the structure and functioning of political institutions, such as the Cabinet, Parliament, the Judiciary and the public service.

Instructors: J.Esberey, P.Hanson Sessions: Summer Day, Winter Day and Evening

Objectives: To acquire a knowledge and understanding of Canadian political institutions and processes. This course will also introduce students to the academic study of politics.

Teaching Methods: Lectures and tutorials.

Evaluation:

Final examination (50%) plus term exams and essays to be specified at the start of term.

POLA03Y

Introduction to Comparative Politics

Course description: This course is designed to introduce the student to comparative political inquiry through analysis of selected developed and developing nations. The course will not be a comprehensive survey of the politics and history of each country. Rather, concrete analysis will proceed in terms of a number of inter-related conceptual issues in political science concerning government and public policy. Among the themes isolated for discussion and analysis are political power, leadership, conflict resolution, constitutions, political stability and governmental performance. The countries included are: United States, Japan, United Kingdom, France, China and the U.S.S.R.

Instructors: M.Donnelly, V.Falkenheim Session: Winter Day

Teaching Method: Lectures and tutorials.

Evaluation:

Term tests, papers and a final examination.

Course description: The focus of this course is upon the national political parties and the national party system. While "third" parties will be treated in this context, provincial party systems as such will not be considered. Among the subjects dealt with are: party competition; elections; selection of leaders and candidates; platforms and ideologies; organization; finance.

Instructor: R. Johnston Session: Winter Day

Teaching Methods: Lectures

Evaluation:

- 1 term paper
- 1 final examination.

Course description: A study of the major political philosophers of the eighteenth and nineteenth centuries.

Instructor: J. Colman Session: Winter Day

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, Hume, Kant, Burke, Bentham, Tocqueville and T.H. Green.

Teaching Method: Two hours of lectures (with discussion) and one hour of tutorial per week. Students are expected to attend the lectures. The tutorials are voluntary.

Evaluation:

Final examination (40%) and either two long (30% each) or four short (15% each) papers. No mid-term examination. No work for class participation.

Reading Lists: These will be distributed during class or are available earlier on request.

Course description: An examination of the role of the bureaucracy in the Canadian and other political systems, focussing on the organization, staffing and management of the public service. Special emphasis will be placed on the powers of the bureaucracy and ways and means of controlling it.

Instructor: J. Galimberti Session: Winter Evening

Teaching Method: Lecture-seminar with emphasis on case studies and simulations.

Evaluation: Grades will be based on research papers, presentations, and a final examination.

Course description: A discussion of the political thought of Plato, Aristotle, Augustine, Machiavelli, Hobbes and Locke.

Instructor: A. Davis Session: Winter Evening

Content: The course will comprise a close reading of Plato's Republic, Aristotle's Politics, H. Deane's The Political and Social Ideas of St. Augustine, Machiavelli's Prince, Hobbes' Leviathan (pt. 1 and 2) and Locke's Second Treatise of Government. Some of the issues raised in the reading are: what is justice, what is its relation to law, what is meant by natural law and natural right, in what ways does politics interact with economics, religion, etc., what is the justification of rebellion and of constitutional government, what is meant by reasons of state as they bear on individual rights and generally what are the ways in which thinkers have related politics to ethics?

Teaching Method: Lecture-seminar

Evaluation:

Grades will be based on class presentations, participation and term essays.

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 analyse politics at the international level.

Instructor: A. Rubinoff Session: Summer Evening,
Winter Day.

Content: Specific topics include a consideration of important concepts such as power and various interpretations of such factors as geography to provide the student with an operational vocabulary. The course also considers the systemic nature of international politics and examines such contemporary issues as nationalism, neutralism, alliances, as well as the cold war and detente. After examining the nature of war in modern society the course focuses on diplomacy, negotiation, international law, international organization and other limitations on power. The remainder of the course concerns itself with the impact of science and technology on the future conduct of international relations.

Teaching Method: Lectures

Evaluation: Specifics will be announced on the fall syllabus but the emphasis is on examinations as opposed to papers.

Course description: An analysis of Chinese political institutions, behaviour and thought, with primary emphasis on the contemporary political system since 1949.

Instructor: V. Falkenheim Session: Winter Day

Content: This course will focus primarily on the efforts of a revolutionary political elite to reshape Chinese society. It will juxtapose the goals and programs of this elite to the social and economic realities of China, stressing the tensions that are generated by the conflict between resilient social and cultural traditions and the pressures for forced draft change. A subordinate theme of the course will deal with efforts of Mao Tse-tung and his associates to discover a distinctively Chinese path towards modernization in which the contradictions between the twin goals of modernization and social revolution are resolved.

Teaching Method: Lecture and discussion.

Evaluation: Two hour examinations, two papers, one final take-home examination.

Prerequisite: POLA01

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. Esbrey Sessions: Winter Day and Evening

Content: The initial emphasis is placed on an examination of three case studies of federal-provincial interaction. The basic propositions put forward in these studies will then be examined in relation to other areas of intergovernmental relations.

Teaching Method: A weekly two hour seminar.

Evaluation:

50% of final grade for class discussion - students may substitute a take-home examination for this requirement. 50% of final grade for research essay investigating some aspect of intergovernmental relations not covered in class discussion.

Additional Comments:

Active participation in class discussion and regular preparatory reading for seminars essential.

Course description: An introductory workshop in applied psychology. This course explores some of the areas in which our understanding of the political process has benefitted from the application of psychological knowledge. The lecture/discussion period will be concerned with a general overview of the literature in the field and students are encouraged to undertake further detailed research in areas where they have the necessary psychological or political science background. During the fall term the focus will be on attitude change and political behaviour and political socialization. In the spring term the focus will be on human nature and politics and the influence of personality factors.

Instructor: J. Esbrey Session: Winter Day

Teaching Method: Seminar

Evaluation: To be announced in the Fall.

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

Content: The first part of the course will deal with aspects of American political culture in relation to attitudes towards government, politics and politicians. Most of the year will then be spent constructing a systematic explanation of national political institutions with special emphasis on the role of the presidency. Some consideration will also be given to selected types of domestic and national policies.

Teaching Method: Lectures and discussion.

Evaluation:

An analytical essay, two one-hour exams during term and a final spring exam of two hours.

Course description: An introduction to the analysis of elite and mass political behaviour focussing on the social, cultural, and personal factors which influence the political behaviour of ordinary citizens, interest-group leaders, and governmental elites. Consideration will also be given to characteristic processes and relationships within the political system, such as voting, bargaining, protest, and violence. The emphasis is on the political systems of industrial societies, particularly Canada.

Instructor: R. Johnston

Session: Winter Day

Teaching Method: Lectures.

Evaluation:

3 take-home mid-terms, involving analysis of data.
1 term paper.
1 final examination.

Prerequisite: POLA01

Course description: The greater part of the course will be devoted to an examination of the judicial role in interpreting the division of legislative powers contained in the B.N.A. Act. The texts of relevant decisions will be analysed in detail. The remainder of the course will deal with the subject of constitutional change, civil liberties, and administrative powers.

Instructor: R. Blair

Session: Winter Day

Evaluation:

essay
test
final examination

Course description: An examination of the Indian political system, including analysis of its political culture and a survey of relevant political history.

Instructor: A. Rubinoff

Session: Winter Evening

Content: This course deals with such problems as caste, untouchability, overpopulation, the "Green Revolution," communalism, corruption, and regionalism in contemporary India. The impact of historical figures from the colonial and nationalist periods such as Gandhi, Nehru and Bose is also covered. Foreign policy, government institutions, political parties, state and local politics and the current State of Emergency are other topics considered.

Teaching Method: Lectures, films, and reports.

Evaluation:

oral report/paper on a nationalist leader (fall term). State politics oral report (spring term).
mid-term exam,
final exam.

Course description: An examination of some of the problems of intergovernmental relations which arise in regional organizations such as the E.E.C. and the machinery which has been developed to cope with these problems.

Instructor: J.Esberey Session: Winter Evening

Teaching Method: Seminar.

Evaluation:

To be announced in the Fall.

Course description: A study of the patterns of growth in federal and provincial policies for economic progress, social order and individual development; the relationship between changing public policies and Canadian political development; and the contributions made by instruments of government toward the achievement of basic political values.

Instructor: R.Manzer Session: Winter Day

Content: Conceptions of human need and related political values; basic problems of Canadian political development; evolution of economic policies for development, stabilization, and integration; social policies for income maintenance, health, education, culture, and criminal justice; evaluation of policies in terms of political values; political ideas, political culture, and patterns of public policies.

Teaching Method: Lectures.

Evaluation:

Term work may be completed either by writing both of the two term tests given in the course or by writing one of the term tests and a term essay. The final grade is based on the combined results of the term work and a three-hour final examination.

Course description: An examination of the politics and government of 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. Colton Session: Winter Day

Content: Specific topics include: urbanization and the "urban crisis"; local government institutions; the city in the federal system; elites and power; elections and party systems; class, ethnic, and area-based politics; interest groups; the power of bureaucrats and planners; proposals for political reform in cities.

Teaching Method: Two lectures a week.

Evaluation:

Full-term book analyses
One-hour Christmas test
Spring-term essay
Final examination.

Course description: The course begins with a study of the provincial constitution and then proceeds to an analysis of elections and the party system. Thereafter the major institutions - executive, legislature, and public service - together with their inter-relationships are examined. Provincial-local and provincial-federal relations will be given only limited treatment.

Instructor: R.Blair Session: Winter Day

Evaluation:

Essay
Test
Final examination

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, international trade unionism, 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, Tanzania and Kenya.

Instructor: K.R.J. Sandbrook

Session: Winter Day

Teaching Method: Lecture.

Evaluation:

2 comparative book reviews one research and a final examination (40%)

Course description: An analysis of politics and government in the postwar period. Special attention will be given to social and cultural explanations of political behaviour. The contributions made by government policy toward achieving "miraculous" economic growth will also be considered.

Instructor: M.W. Donnelly

Session: Winter Evening

Content: The initial task will be to place contemporary Japan into an historical context by examining what went wrong in the prewar period and what the Allied occupation sought to do about it. A major theme of the course will thus be continuity and change. An additional feature of the postwar period has been the simultaneous occurrence of rapid economic growth and sharp political division. Our main task will also be to review various explanations which have been offered to explain the tensions between economics and politics. This will require treatment of social and cultural aspects of modern Japan as well as examination of government policy.

Teaching Method: Lectures and discussion.

Evaluation: An analytical essay and a final examination.

Prerequisites:

PSYA01 or (PSYA02); PSYB09; PSYB07 or MATB52 and PSYB40 are recommended

Course description: Review of operant conditioning research with laboratory exercises in operant schedules of reinforcement and stimulus control of behavior. Emphasizes study of the control of steady-state performance and provides opportunity for the observation and control of operant behavior in infrahuman subjects in the laboratory. Topics include: complex schedules of reinforcement, stimulus control, models of operant behavior, discussion of applications of operant techniques in behavior modification.

Instructor: G. Biederman

Session: Winter Day

Evaluation: There will be a final exam but method of teaching and evaluation is under active review. Final statement of course policy will be issued by September 1/77.

Prerequisite:

PSYA01 or (PSYA02)

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.E. Foley

Session: Winter Evening

Content: Stimuli for the human senses, especially light and sound; receptors and sensory pathways with emphasis on vision; sensitivity; colour and tone; spatial & 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).

Course description: A study of the foreign political, economic and military relationships of Canada from 1867 to the present. Issues to be considered include: policy formation; relations with the U.S., N.A.T.O. and the Commonwealth, etc.

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

Teaching Method: Lecture-Seminar.

Evaluation: To be arranged.

Prerequisites: POLB10 or POLB26

Course description: This course examines the foreign policy of the United States by looking at the tradition and context of American decision-making, the process by which it is formulated, and its application to a number of specific regions and problems in the world.

Instructor: A. Rubinoff Session: Winter Day

Content: Specific subjects for examination include the role of the President, the bureaucracy, Congress, the courts, the media, the intelligence services, the military, and interest groups in the making of U.S. foreign policy. The impact of personalities in various periods such as Woodrow Wilson, John Foster Dulles, and Henry Kissinger will also be evaluated. In addition America's role in the Middle East and relations with Canada will be explored.

Teaching Method: Lectures and discussions.

Evaluation:

Mid-term exam

Final exam

One problem essay.

POLB40S Supervised Reading

Prerequisite: One B-level course in Political Science; permission of instructor

Course description: Advanced reading programme in special topics.

Instructors: Members of Staff Session: Winter Day

Evaluation: To be arranged.

POLB42Y Comparative Communism

Prerequisite: One B-level 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.B.A. Session: Winter Evening

Content: This course will concern itself with the study of political institutions and processes in Communist societies. The emphasis will be theoretical and evaluative, rather than merely descriptive, focusing on problems of socialist political development from a Marxist-Leninist perspective. That is, the study of individual systems will be guided by the issues raised in the on-going Marxist-Leninist dialogue over how to "build" socialist society. In particular it will look at problems of "democratic" development in socialist systems and at problems of stability and change.

Teaching Method:

Lecture-colloquium.

Evaluation:

Grades will be based on two papers and class participation.

POLC13F

The Political Economy of Third-World Urban Poverty

Prerequisites: One Social Science course dealing with the third world

Course description: This course will investigate the human problems created by the confluence of a high rate of urbanization and a low or stagnating rate of industrialization in many underdeveloped countries. It will focus in particular upon the urban poor and their place within peripheral capitalist societies: why they came to the cities; how they earn their meagre livelihoods and their role within the national economy; whether the slums (in particular cases) are characterized by anomie and social disorganization; how the various strata of the poor view the existing social order; and whether political or para-political organizations exist in various countries to politicize the poor and mobilize them behind a programme of social reform or revolution. In addition, the feasibility of certain policies designed to ameliorate urban poverty within the existing social order will be discussed.

Instructor: K.R.J. Sandbrook Session: Winter Day.

Teaching Method: Lecture-seminar

Evaluation:

1 Research paper and one final term test.

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Topics in Canadian Politics

Prerequisites: POLA01; POLB02

Course description: An advanced seminar on political parties and elections in Canada.

Instructor: R. Johnston Session: Winter Day

Teaching Method: If enrolment permits, a mixture of lecture and seminar.

Evaluation: To be announced.

POLC14S

Multinational Corporations and Underdevelopment

Prerequisites: 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 benefits from their operations for the poor. There will be case studies of multinational firms engaged in both primary production and manufacturing in underdeveloped countries.

Psychology

Psychology is that branch of science which seeks to understand behaviour and experience. Why humans and infrahumans act as they do is a puzzle which has always challenged mankind. Philosophers, artists, novelists, theologians and others have sought the answer through reason and intuition. But the methods of scientific enquiry can also be applied to an understanding of behaviour.

The areas of interest which Psychology encompasses include: how organisms perceive their environments; how they learn and adapt; how they change over their lifetimes; how they choose among alternate courses of action; how they respond to stress and conflict; how the presence of other organisms in social settings influences their behaviour; how their behaviour relates to physiological functions; and how individuals differ from each other. The course offerings in Psychology consider how psychologists pursue enquiries into these areas and what knowledge they have gained.

Students interested in Psychology and planning to enter teaching or research professions should consider following the Major Programme in Psychology. Students who are interested in proceeding to the graduate level in Psychology should aim for a well-rounded undergraduate programme rather than narrow specialization in the area which is of immediate interest. The experience which is provided by the Thesis (C98Y) is of particular value to prospective graduate students.

It will often be appropriate to include, as well, courses in other disciplines, such as Biology, Mathematics, Computer Science, Philosophy, and Sociology.

Members of staff are available for consultation in the planning of your programme in Psychology.

PSY

Introduction to Psychology

Session:

(PSYA02)

Description: The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of organisms, both human and infrahuman, perceive their environments; their behavior is modified by experience, and how their activities are instigated, sustained, and directed.

Instructors: Members of the Faculty TBA Session: Winter Day
Winter Evening

Content: The physiological basis of behaviour, particularly the functioning of the nervous system; learning, and the importance of experience in behaviour; perceiving, thinking, and reasoning; intelligence; language; motivation and emotion; social behaviour; abnormality, and abnormalities of behaviour and experience.

Learning Method: Three lecture hours per week. In addition, students complete three laboratory exercises in the course of the year, requiring four hours of lab attendance on dates to be scheduled in the session.

bibliography: A text for 1977 has not yet been selected. In addition a book of readings to supplement the text is typically employed.

Evaluation: There will be three term tests in class hours during the year (45%) and a three-hour final examination (40%). Three laboratory reports will be submitted, contributing the remaining 15% of the final grade.

PSY

Introduction to Psychology

Session:

(PSYA02)

Description: The basic principles and methods of contemporary psychology, emphasizing their contribution to an understanding of organisms, both human and infrahuman, perceive their environments; their behavior is modified by experience, and how their activities are instigated, sustained, and directed.

Instructor: L. Cohene Session: Summer Evening

Content: The physiological basis of behaviour, particularly the functioning of the nervous system; learning, and the importance of experience in behaviour; perceiving, thinking and reasoning; intelligence; language; motivation and emotion; social behaviour; abnormality, and abnormalities of behaviour and experience.

Learning Method: Two three-hour lectures per week. Lectures include discussion, demonstrations, and films. Laboratory exercises (T.B.A.)

bibliography: One comprehensive text and one book of relevant articles. The titles for Summer, 1977 have not yet been selected.

Evaluation: There will be two term tests during the course (45%); final examination (40%); laboratory reports (15%).

Exclusions:

MATB52 (ECOA02), ECOB11, GGRB02, SOCB01

Course Description: Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behavior of man is explained by observing the behavior of men. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed.

Instructor: G. McKoonSession: Winter Evening

Additional Comments: Students concerned about the sufficiency of their background in mathematics should consult H.M. Walker's Mathematics Essential for Elementary Statistics (available in the College library) for a detailed survey of the skills required.

Teaching Method: Lectures, tutorials, and homework assignments.

Evaluation: Homework and 2 exams.

Exclusions:

MATB52, (ECOA02), ECOB11, GGRB02, SOCB01

Course description: Psychologists, like other scientists, arrive at general principles on the basis of limited evidence. The behavior of man is explained by observing the behavior of men. How is the psychologist able to make the leap from the specific data of his experiments to the generalization he may wish to affirm? The course examines the role of statistical decision-making procedures in drawing reasonable inferences from research findings. It details the mechanics of a variety of commonly used data analysis procedures and explores their underlying logic. A working knowledge of elementary algebra (to the solution of simple linear equations in one unknown) is assumed.

Instructor: B. ForrinSession: Winter Day

Content: For a more specific indication of topics covered the interested student is referred to the text used in 1976-77, Horowitz's Elements of Statistics for Psychology and Education. Students concerned about the sufficiency of their background in mathematics should consult H.M. Walker's Mathematics Essential for Elementary Statistics (available in the College library) for a detailed survey of the skills required.

Teaching Method: Four hours of lecture (with some class participation) and one hour of tutorial per week.

Evaluation: The final course grade has commonly been based on problem sets (1/6), brief quizzes (1/6), 2 term tests (1/3), and a final examination (1/3).

Prerequisites:

MATC52

Corequisite:

PSYB07 or MATB52

Description: The course extends the range of techniques examined in PSYB07. Procedures are considered which permit the analysis and interpretation of data from complex experiments involving the simultaneous manipulation of several independent variables. The course is highly recommended for all students completing supervised individual research in psychology.

Instructor: B. ForrinSession: Winter Day

Content: The course focuses on both the logic and the mechanics of analysis of variance as a tool for the interpretation of research. A more detailed overview of course content may be had by referring to a recent text, Ferguson's Statistical Analysis in Psychology and Education (4th ed.), particularly pp. 223-358.

Teaching Method: Three hours of lecture (with some class participation) and one hour of tutorial per week.

Evaluation: The final course grade has usually been based on problem sets and brief quizzes (20%), 2 term tests (40%), and a final examination (40%).

Prerequisites:

PSYA01 or (PSYA02) or BIOA03

Description: The experimental technique of Psychology as applied to problems in learning, motivation and perception in human and human organisms. This course emphasizes research methods of Psychology and is intended to provide a broad foundation of information and research techniques required in specialized laboratory courses and advanced courses.

Instructor: G. BiedermanSession: Winter Day

Content: Provides introduction and methodological design problems in Psychology for an empirical rather than statistical framework. Question: How do you find out? Rather than, what did you find?

Recommended Courses: Prior or concurrent enrolment in PSYB07.

Prerequisites: Two lectures per week with one lecture test/term (1/6) and short answers) worth 40%. Three laboratory hours (1/6) - 4 main laboratory units with 15% each.

PSYB10F Winter Introduction to Social Psychology
PSYB10S Summer

Prerequisite: PSYA01 or (PSYA02)

Course description: Social Psychology focuses on the problem of how human behavior is influenced by others. The course is designed to demonstrate some phenomena of social behavior and to present theories and research evidence relating to these phenomena.

Instructor: John Bassili Session: Summer Day
Winter Day

Content: The course begins by considering processes of social influence (e.g. obedience, conformity, and attitude change), followed by a discussion of dissonance theory, social comparison 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.

PSYB11F Social Psychology Laboratory

Prerequisite: PSYB07; PSYB10

Course description: This course will consider in depth the research methods used to gather the data discussed in PSYB10 and PSYB12. Students will gain experience with various methodological approaches employed in social psychology.

Instructor: John Bassili 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 v/s correlational evidence).

Teaching Method: Lectures-discussions and laboratory work.

Evaluation: Independent Project; one class exam; one laboratory report

Advanced Social Psychology

Prerequisite: PSYB10

Description: Paradigm change in social psychology; the role of cognitive and experimental methodologies; attribution theory; theory, subjective and objective judgmental processes; processes of emotional expressions, individual differences in social psychological processes.

Instructor: G. Cupchik Session: Winter Evening

Content: Beginning with a discussion of appropriate methodologies for investigation of social phenomena, the course considers the different viewpoints in contemporary social psychology. The course then turns to the specific and yet related problems of attribution theory, internal and external control, coping with stress, subjective and objective judgments and the judgment of emotional

Objectives: To attempt a critical analysis of developments in social psychology through an examination of the theories, methods and findings of recent research.

Evaluation: Term multiple choice, final multiple choice.

PSYB12S Developmental Psychology

Prerequisite: PSYA01 or (PSYA02)

Description: This course is divided into two parts. The first part examines broad frameworks which have been offered to explain human development, e.g. Piaget's cognitive theory, social learning theory. The second part focuses on selected research areas which have been studied with different aspects of social and cognitive development in infancy and childhood; e.g. social attachment, intelligence, sex-differences 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 biological 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 sessions.

Evaluation:

The course will be available in the fall

Prerequisite: PSYA01 or (PSYA02)

Course description: How psychologists study the individual and his behavior. Examples of both the traditional broad theories of behavior (e.g. Freud's psychoanalytic theory) and the more contemporary research-oriented "miniature theories" will be discussed. The specific research areas which are covered vary somewhat from year to year. Achievement motivation, manifest anxiety, attraction, intelligence, computer models of personality, curiosity and exploratory behavior, personality assessment and non-verbal behavior are some of the topics which may be included in any given year.

Instructor: A. Kukla Session: Winter Evening

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 consists mainly of original research reports from scholarly journals.

Evaluation: Two essay examinations each of which counts 50% of the final grade.

Prerequisite: PSYA01 or (PSYA02)

Course description: A critical examination of psychoanalytic, S-R, cognitive-interpersonal, biological and phenomenological views concerning the cause and treatment of abnormal behavior. The conceptual problem of defining abnormality and categorizing its varieties will be emphasized.

Instructor: J. Pauker Session: Winter evening both terms

Content: Definition and identification of abnormality, historical-cultural influences on attitudes, practices, theories, and research; a variety of past and current viewpoints in hypothesis, model and theory development, including genetic physiological, stress, medical, psychiatric, psychoanalytic, social-learning, and sociological; classification systems, including problems in their reliability and validity; description of a variety of neuroses, psychoses, and other behavioral disorders of adults and children, including cognitive, emotional, sensory-perceptual, psychomotor, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetics, and epidemiological research; management, control, and modification of abnormal behavior within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

Teaching Method: Mainly lecture, with some use of audiotapes, videotapes, and film.

Evaluation: Three examinations, multiple-choice.

Prerequisites: PSYB07 or MATB52; one additional half-course in Psychology at the B-level

Description: A fundamental concern within Psychology is the measurement of the aptitudes and abilities of individuals, their interests and attitudes, their enduring character traits may be measured. Methodological principles underlying the construction of psychological tests, the interpretation of the scores they yield, and the assessment of their value are discussed and illustrated by reference to a variety of psychometric instruments. Some attention is devoted to certain substantive issues associated with the measurement of psychological attributes, e.g. the nature of intelligence.

Instructor: B. Forrin Session: Winter Day

Description: The course is intended to foster an understanding of how psychologists seek to derive meaning from measurement; it does not have as a significant objective the development of practical skills in administration. For a detailed survey of topics covered, see Stasi's Psychological Testing (4th ed.) or Cronbach's Tests of Psychological Testing (3rd ed.).

Method: Three hours of lecture per week.

Evaluation: The final course grade is likely to be based on problem sets, brief quizzes (20%), 2 term tests (40%), and a final examination (40%). The precise evaluation scheme will be announced at the first week.

Learning

Prerequisites: PSYA01 or (PSYA02); PSYB09; PSYB07 or MATB52

Description: Critical review of basic theories and issues in psychology of learning, with selected laboratory exercises in learning. An introduction to the problems and techniques of the study of the acquisition of behavior. Topics include: reinforcement, motivation, classical and instrumental conditioning, and theory construction.

Instructor: G. Biederman Session: Winter Day

Description: Provides theoretical and practical introduction to concepts and current problems in learning and motivation.

Evaluation: There will be a final exam but method of teaching and evaluation is under active review. Final statement of course will be issued by September 1/77

PSYB51F Perceiving and Knowing

Prerequisite: A B-level course in psychology (or PSYA01 or PSYA02 and permission of instructor); PSYB50 PSYB52, FARA70, PHLB03 are recommended

Course description: In obtaining information about our environment we rely on first-hand contact with real things, and also on second-hand contact, with representations - we have to distinguish between reality and appearance, objects and images, the pictured and pictures. The course examines such distinctions using data from children and adults, from different cultures, from different eras, and from different species. Demonstrations and exercises will form part of the course work, but prior knowledge of laboratory procedures is not required.

Instructor: J.M. Kennedy Session: Winter Day

Content: Theories of representation and research studies by psychologists and educators. Specific topics include processes for overcoming deficits, projection, outline representation, machine decoding of pictures, trompe l'oeil, ambiguous pictures, impossible objects, metaphor in pictures, special pictures for visually handicapped people, perception by special groups in New Guinea, Africa, India. Cave art. Illusory effects.

Teaching Method: Lectures and exercises.

Evaluation: Three exercise reports and 2 multiple-choice/essay exams.

PSYB52S Human Information Processing

Prerequisites: PSYB50, PSYB07 or MATB52; PSYB09

Course description: Recently Psychologists who study human perception and behavior have begun to lay great emphasis on the way in which the human being actively and constructively processes information rather than merely responding passively to stimulation. The course introduces these ideas in their application to perception, memory, and cognition, with special emphasis on quantitative studies. Selected Laboratory exercises.

Instructor: M.C. Smith Session: Winter Day

Objectives: This course is designed to introduce students to one approach to understanding human behaviour - an approach whereby the behaviour is analyzed into a series of discrete stages or processes each of which could be influenced by a variety of factors. The way in which attention and method of processing act at each stage is considered.

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 6 labs per session.

Evaluation: There are 2 term tests, each of which comprise 25% of the total grade. The remaining 50% of the grade is based upon the written lab reports.

Man and Machines

Prerequisites: PSYA01 or (PSYA02); quantitative skills such as are required in PSYB07, or PSYB09 are an advantage

Course description: Experimental Psychology can be used to match the properties of human beings so that we can achieve "use of human beings". This course examines machines which and adapt themselves to humans; the efficient design of machines to match human nervous systems; prosthetics, machines as a part of man; quantitative measures of human performance; and philosophical problems about man's nature in a world of intelligent machines.

Instructor: T.B.A.

Session: Winter Evening

Final information will be available from the Divisional Office in the Fall. A final examination will be held.

PSYB57F-summer Human Learning and Memory
PSYB57S-winter
Prerequisites: PSYA01 or (PSYA02)

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 theory and research.

Instructor: G. McKoon Session: Summer evening
Winter day

Teaching Method: Lectures and reading assignments in the text

Evaluation: 3 2-hour examinations based on lectures and reading assignments.

PSYB60F Brain Mechanisms and Behaviour: I

Prerequisite: PSYA01 or (PSYA02)

Course description: Students with prior credit for PSYB65 may take PSYB60 for credit. This course and PSYB61 deal with the relationship between behaviour and structure and function of the nervous system. Topics covered in PSYB60 include: neuroanatomy, structure and function of neurons, neural mechanisms and movement, and the physiological basis of perception.

Instructor: T. Petit Session: Winter Day

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, neuropharmacology, and neural mechanisms of sensation and movement.

Teaching Method: Two hours lecture and one hour neuroanatomy lab or tutorial per week.

Evaluation: Three term examinations on the lecture and book, and one exam on neuroanatomy, each exam worth 25% of the final grade.

Brain Mechanisms and Behaviour: II
Physiology of Motivation and Learning

Prerequisite: PSYB60

Course description: This is a continuation of PSYB60. Topics covered in the category of Motivation will include physiological basis of eating, drinking and sexual behaviour; sleep; and the neural bases of reward. Topics covered under Learning include: biological processes and memory, structural basis of learning and memory, biochemistry and memory.

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

Course description: In the area of motivation, the course covers physiological (static) and behavioral processes involved in temperature and regulation; neural mechanisms of feeding; sexual behaviour, aggression; electrical self-stimulation of the brain and the basis of reinforcement. The impact of recent neurochemical series (biogenic amine pathways) on motivational systems will be evaluated. Modern theories maintain that sleep is an active process; electrophysiological and neurochemical aspects of the sleep will be discussed. Electrophysiological, biochemical and anatomical changes that take place at the neuronal level during learning will be discussed. The question of how information is stored and retrieved will be dealt with at a grosser anatomical level: the effects of experimental lesions, human brain damage, stimulation and chemical changes will be presented.

Teaching Method: 3 hours of lecture per week with occasional discussions.

Prerequisite: Still under consideration.

Winter Biological Foundations of Behaviour
Summer
Prerequisite: PSYB60

Course description: Students with prior credit for PSYB60 may not take PSYB65 for credit. Examines the structural and physiological basis of behaviour. It is geared towards non-biologically oriented students. Specific topics include: behavioural genetics, endocrinological factors and behaviour, central nervous systems and mechanisms of behaviour.

Instructors: D.Klein-Summer Session: Summer Evening
T.Petit-Winter Winter Evening

Structure and function of the nervous system are covered sufficiently to allow the student an understanding of the basis of behavior. Once these basic fundamentals are covered the course focuses on the following: Disorders of the central nervous system (multiple sclerosis, epilepsy, organic brain damage, strokes and other disorders). Drugs of use and abuse (uppers, downers, stimulants, depressants). 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.

Prerequisite: PSYA01 or (PSYA02)

Course description: Comparison of psychological and ethological approaches to the problems of the structure, causation, ontogeny, and phylogeny of behaviour.

Instructor: T.B.A.

Session: Winter Day

Content: The course starts out with an historical survey of comparative psychology. The ethological (phylogenetic) program is then discussed and analyzed. Some discussion of genetics, behavioral genetics and evolutionary theory is included in this aspect of the course. The behavioristic (ontogenetic) perspective is the next topic discussed. This is, in many ways, the antithesis of the ethological perspective. The final topic considered in some contemporary developments in animal learning.

Evaluation: Will be available before the beginning of term.

Prerequisites: PSYB12 or (PSYB10 and permission of instructor)

Course Description: An intensive examination of selected issues and research problems in social psychology. Limited enrolment: 25

Instructor: R. Karniol

Session: Summer Evening

Content: Aspects of Social behavior: aggressive, altruistic and moral. This course will cover selected aspects of social behavior - aggression, altruism, and moral behavior, trace their development and examine their correlates. Material will be drawn from both social and developmental psychology.

Teaching Method: Class meets 2 nights a week and is organized around a seminar format - lectures and student presentation of seminars (topic to be chosen at start of term).

Texts: 3 paperback texts: Johnson, R.N. - Aggression in man and animals; Wright, O. - The Psychology of Moral Behaviour; H.A. Hornstein, - Cruelty & Kindness.

Evaluation: Class presentation will count for 20%; a paper on the same topic as the class presentation to be handed in prior to the end of term will count for 40%. A final essay exam worth 40%.

Prerequisites: PSYB12 or (PSYB10 and permission of instructor)

Description: An intensive examination of selected issues and problems in social psychology. Limited enrolment: 25.

Instructor: John Bassili

Session: Winter Day

The course will review the development of important theoretical and empirical approaches to the study of social behavior. These will include the "New Look" approach, impression formation, attribution theory, and the perception of emotions and of interaction.

Method: Lectures and discussions

Evaluation: 2 one-hour examinations; 1 term paper.

Prerequisites: PSYB10; PSYB20

Description: Covers the processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g. development of social behaviors) and the context in which it occurs (family, peer group, etc.). Material will be drawn from both Social and Developmental Psychology. Limited enrolment: 25.

Instructor: T.B.A.

Session: Winter Day

Evaluation: Will be available before the beginning of term

Prerequisite: Three B-level half-courses in Psychology

Course description: The systematic investigation of experience. The course begins with a discussion of the concept of experience in the history of Psychology and of methods appropriate to its phenomenological analysis. The specific experiential categories dealt with will vary from year to year and may include the phenomenology of: sensory experience, the emotions, thinking and intuition, mental imagery, hallucinations, time, humour, aesthetic experience, self and others, drug-induced states of consciousness, hypnosis, dreams and mystical states. Limited enrolment: 50.

Instructor: A. Kukla Session: Winter Day

Method of Teaching: 2 hours of lecture per week

Evaluation: Method of evaluation is currently being considered and will be available in September.

Prerequisites: PSYB07 or MATB52 or PSYB09; PSYB20 or PSYB51; permission of instructor

Course description: In a number of areas, there seem to be systems of rules (structures) that characterize physical, logical and psychological phenomena that people employ. The areas and major theorists in each area include: visual perception (Gibson), language (Chomsky), the child's developing grasp of reason (Piaget), and social understanding (Laing). Each of these areas will be considered and possible extension of the main theories will be outlined. The extensions include hypotheses about sex differences in egocentrism, the structure of conversation (Kukla), perception of representations and understanding of metatheory.

Instructor: J.M. Kennedy Session: Winter Day

Content: Specific topics include: The place of structuralism in today's psychology; identification with characters in novels, plays, films; adolescent thought and understanding of language, logic, what is testable and what is not; perception of flow patterns; infinity and zero in children's reasoning; marital discord and disagreement.

Teaching Method: Lectures and class presentations

Evaluation: Weekly papers, 1 essay examination; 1 presentation; 1 essay paper.

Prerequisites: A PSYB50-series course other than PSYB50F; permission of instructor.

Description: While speech may well be "the best show man" reading is perhaps the most complex and intriguing skill that has evolved in man's history. With the increase in study of human information processing mechanisms in recent years, there has been a great interest in reading, in the hope that a breakdown of this process into its successive stages could lead to an understanding of how such large amounts of material are handled during reading. In this course, we will be concerned with defining the functional unit and isolating the factors affecting its processing. We will ask such questions as: What aspects of the printed word are essential to its identification? Does reading proceed word by word or by letter? Must the constituent letters be identified before a word can be recognized?

Instructor: M.C. Smith Session: Winter Day

Method: This course will meet for 3 hours a week, and will be conducted in the form of a seminar. Each student will be expected to present a paper on some aspect of reading.

Reference: Smith, F. Understanding Reading, Holt, Rinehart, Toronto, 1971.

Evaluation: The grade will be based upon both the paper presented to the seminar group, and a final exam to be held at the end of term.

Prerequisites: PSYB60 or a B-level Biology course; permission of instructor

Description: An intensive examination of selected issues and research problems in comparative and physiological psychology.

Instructor: T. Petit Session: Winter Day

The course covers the development of the nervous system and behavior from conception to death. The major emphasis is on prenatal brain development, and factors governing its normal and abnormal growth. The other end of the developmental spectrum, the aging brain will also be considered, including the physiological problems and theories of aging on the brain.

Method: In the beginning of the course, there will be two weeks to give all students a firm background in the basics of developmental Psychobiology. Later, each student will present a seminar in a topic of interest.

Evaluation: Student marks are 50% from evaluation of their seminar presentation, and 50% from a comprehensive final exam.

Exclusion: (PSYC35)Prerequisites: PSYA01 or (PSYA02); two B-level half-courses in PsychologyCourse description: Paradigm change in the history of psychology; animism; Greek psychology; the modern era, Descartes, Leibnitz, the English Empiricists; Nineteenth Century developments, the emergence of descriptive and positivist methodologies; Twentieth Century approaches; systems theory; functionalism, structuralism, behaviourism, phenomenology. Limited enrolment: 35.Instructor: G. CupchikSession: Winter DayContent: The course examines the diverse contributions of the Greek philosophers which established the foundation of Western thought. The course then turns to the conceptual, methodological and factual developments in both continental and English science and philosophy from the 14th to the 19th Centuries. The appearance of psychology in its modern form in the second half of the Nineteenth Century is discussed and a critical analysis is provided of the various modern schools including systems theory, functionalism, structuralism, behaviourism and phenomenology.Evaluation: Mid-term exam, final essay exam, 15 page term paper.Exclusion: (PSYC35)Prerequisites: PSYA01 or (PSYA02); two B-level half-courses in PsychologyCourse description: Paradigm change in the history of psychology; animism; Greek psychology; the modern era, Descartes, Leibnitz, the English Empiricists; Nineteenth Century developments, the emergence of descriptive and positivist methodologies; Twentieth Century approaches; systems theory; functionalism, structuralism, behaviourism, phenomenology. Limited enrolment: 35.Instructor: D. StewartSession: Summer DayMethod of Teaching: Lecture, discussion and oral presentation by students.Evaluation: 2 exams 30%; project involving written and oral presentation 40%.Prerequisites: Three full-course equivalents in Psychology; permission of instructorDescription: A reading or research project.For: Supervision by a faculty memberSession: Winter Day

Winter Evening

Notes: These courses provide an opportunity to investigate an area in depth after completing basic coverage in regularly scheduled courses. They are not intended as substitutes for advanced courses in the field where these are available. The student must demonstrate that his/her background is adequate for the project proposed and must present a clear rationale to prospective supervisors. Consultation with the supervisor is necessary and some library research and/or data collection will be required. The project will normally culminate in a written submission but the extent of evaluation may also be determined by the supervisor. There is no final examination.Prerequisites:

Satisfactory completion of 15 full-course equivalents in any discipline but including PSYB07, one laboratory half-course in Psychology and two additional full-course equivalents in Psychology; consent of a faculty member in Psychology to serve as research supervisor.

Note:

PSYB08 recommended

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 and a defense of that report. During the course of the project, at appropriate times, students will meet to present research proposals, to appraise the proposals of others and to discuss the results of their investigation.For: J.E. FoleySession: Winter Day

or Winter Evening

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 thesis which will be read by both supervisor and coordinator.

There is no final examination.

Russian

Discipline Representative: C.V. Ponomareff

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 Language and Literatures and Russian or Related Studies in the Programmes section of the College Calendar). Students who wish to study Russian literature not as part of any of the above programmes may undertake their reading in translation.

Intermediate Russian

Location: (RUSA11)

Prerequisite: Grade 13 Russian or RUSA10

Description: Expanded study to increase ability in speaking, reading and writing Russian.

Instructor: C.V. Ponomareff

Session: Winter Day

Content: Study of Russian morphology; translation, composition, and reading in the original and conversation.

Learning Method: Four hours a week divided into 2 intensive sessions.

Assessment:

Work.

Midterm test.

Final examination.

RUSA10Y

Introductory Russian

Course description: Fundamentals of Russian Grammar, with emphasis on comprehension and reading, writing and conversation.

Instructor: Natalie Kosachov

Session: Winter Day

Objectives: The course is designed to introduce the student to the Russian language: reading, writing, elementary grammar, basic comprehension and conversation. 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 large enough to permit 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. In addition 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.

Bibliography: Galina Stilman, L. Stilman, W.E. Harkins, Introductory Russian Grammar, Xerox College Publishing.

Evaluation: Tests, class performance and homework considered for grading; no final examination required.

The Twentieth Century Russian Novel

Description: Varieties of novel in pre- and post-revolutionary realist, symbolist, autobiographical, surrealist, picaresque, socialist realist and poetic.

Instructor: C.V. Ponomareff

Session: Winter Day

Eight representative novels will be discussed: A. Kuprin's A. Bely's St. Petersburg; M. Gorky's Autobiography; Yu. Ilyenkov's Envy; Il'f and Petrov's The Little Golden Calf; M. Bulgakov's Heart of a Dog and Margarita; L. Leonov's The Russian Forest; and B. Pasternak's Doctor Zhivago.

Method: Two hour a week seminar.

Assessment:

Essay.

Final examination.

RUSC02F Supervised Reading
C03S
C04H

Prerequisite: RUSB02

Instructors: Staff

Session: Winter Day

Content: To enable students in Russian studies to pursue independent projects.

Teaching Method: Informal two hour meetings every other week.

Evaluation:

Tutorial discussions.

1 minor paper on project.

Interested students should contact Prof. C.V. Ponomareff.

is the scientific study of interaction among people, the relations which they establish, and the social groups which 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, and the consequences of co-operation, competition and conflict.

Topics listed below represent some of the major subdivisions of sociology and several approaches to the scientific study of social behavior.

Course description: An introduction to the basic concepts, principles and methods of Sociology as a discipline for the study of society. Major topics studied include: the nature of social groups, social processes, culture, socialization, deviant behaviour, population, community, stratification, social institutions and social change.

Instructors: R.Beals/T.B.A. Sessions: Summer Day, Winter Day and Winter Evening

Teaching Method:

Lol - 3 lectures weekly.
Lo2 - 2 lectures and 1 tutorial weekly

Evaluation: T.B.A.

Exclusions: SOCA01

Course description: An introduction to Sociology by means of basic concepts and their application to the study of contemporary society with emphasis on Canada; interaction, groups, social systems, socialization, stratification, collective processes, social change etc.

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

Evaluation: T.B.A.

Prerequisite: One course in Sociology. Exclusion: PSYB07

Description: An introduction to the logic of (social) scientific research, including the problems and limitations of the scientific enterprise. Practical applications, including laboratory research, will entail statistics, data analysis, experiments and research. Limited enrolment: 30.

Instructor: S.Ungar Session(s): Summer Day, Winter Day

Teaching Method: Lectures, laboratory sessions and student projects. Attendance at lectures is not mandatory but strongly recommended. Attendance at laboratory sessions is compulsory.

Structure of Interpersonal Relations

Prerequisite: None, but a knowledge of basic sociological concepts are taught in introductory sociology courses will be required.

Description: The analysis of personal relationships in such forms as the family, education, work, friendship and love. Four weeks of lectures and tutorials on basic methods and theory, and conduct research on topics of their own choice, under consultation but informal faculty guidance. The final research report may be in any suitable format - essay, voice tape, videotape, film, novel etc.

Instructor: J.A.Lee Session: Winter day

1: Basic concepts in the sociology of interpersonal relations.
2: Theoretical approaches: role theory, role identity, dramaturgical theory, social network analysis, sociometry, social change, interactionist theory, small groups, ideal typology etc.

Method: Fall term: 2 lectures a week on above content. Each student has chosen a research topic, seminars on methods (listed above) are organized. Two terms tests on lectures and assigned readings. Each student prepares an acceptable research proposal in detail. Spring term: Seminars on analysis of research. Students collect own data, report in stages, each stage is marked. Final, complete report submitted March 31.

Grading: Term tests 10% ea. Proposal 10%, methodology and analysis report 15% ea.; final report 40%.

This course is not suitable to students who rely on regular essays/tests to keep themselves working. You will fail in the second term, and fail.

Prerequisite: One course in Sociology

Course description: This course will study the development of sociology 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, Spenser, Simmel, and Weber. Finally, contemporary schools of sociological theory will be considered, such as functionalism and exchange theory; phenomenology and ethnomethodology; 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: M. Hammond Sessions: Winter Day and Evening

Teaching Method: Two hours per week of lecture; one hour per week of discussion.

Evaluation: Two short papers, one due in the Fall and one in January and a major research paper due at the end of the second term.

Prerequisite: One previous course in Sociology

Course description: A study of patterns of relationships between political institutions and social structures; relationships between social statuses, social norms, formal and informal groupings, and behaviour in political environment.

Instructor: H. Radecki Session: Winter Day

Content: Specific topics include theoretical interpretations, major political ideologies, questions of political power, national character, channels of influence, political behaviour (voting patterns and other activities), and political socialization. The course will also consider a number of contemporary issues such as Wage and Price Controls, Canadian Immigration Laws, economic and cultural autonomy and other issues.

Teaching Method: Lectures and tutorials.

Evaluation:

Minor written submission,
mid-term one-hour in-class test
essay
final two-hour examination.

Description: An examination of the social and cultural conditions of urban settlements, the social organization of the city and the problems and prospects of Canadian cities, with reference to Toronto and area.

Instructor: J.A. Hannigan Session: Summer Day
Winter Day

Topics: Specific topics include: theories of urban genesis, the relationship of urbanization, industrialization and modernization; sociological growth models, community power structures, neighbourhoods, and urban social networks.

Teaching Method: Lectures and discussion

Assessment: In the first semester, a short assignment and a term paper. In the second half, a major research paper and a take-home

Prerequisites: One course in Sociology

Description: Contrary to the course title, the course will be a more general consideration of social psychology. Our concern will be with the processes of interaction and influence in personal behaviour. The course will provide an overview of the areas of social psychology - attitude change, conformity, perception, helping behaviour, role analysis. We will also come to terms with an emergent paradigm in social psychology, encompassing impression management, labelling and action theories.

Instructor: S. Ungar Session: Winter Day

Among other things we will consider the logic of experimental designs and the social psychology of the experiment. This will provide student with the tools to critically read and evaluate research (and not just in social psychology). Other topics: mental illness; the judgement of emotional states; aggression; observational research in social psychology.

Prerequisite: One course in Sociology

Course description: Description and analysis of the nature of social stratification with emphasis on: the basis of stratification; different theoretical views concerning stratification; the structure and function of stratification systems, social classes and associated behaviour; social mobility; and class conflict.

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

Evaluation: To be announced.

Prerequisite: One course in Sociology

Course description: The sociological study of the family in contemporary western society, with special emphasis on: its historical development, social forces which have influenced it, interrelationship with other institutional forms, the family as a group, the family life cycle, family disorganization and family change.

Instructor: R.James/T.B.A. Session(s): Winter Day and Evening

Content: The content of the course is divided into two approximately equal parts: (1) institutional dimensions of family life, including cross-cultural and historical comparisons, changing family patterns, and the family in an institutional setting, and (2) the family life cycle, with emphasis on family behaviour at various points in its life cycle, including establishment, marital interaction, child-rearing, adolescence and family, family disorganization and family problems.

Teaching Method: (L01) This is primarily a lecture course, consisting of two lecture hours per week and one tutorial hour. Opportunity for class discussion exists.

Evaluation: (L01) There are two end-of-term examinations, of one hour duration each. In addition, participation in tutorial work counts about 20% of the total course mark. Students have a choice of presenting a major paper, worth 40% of the course mark, and no final examination, or a final examination worth 40% of the course mark.

Prerequisite: One previous course in Sociology

Course description: Examines the structure and development of Canadian society, with emphasis on basic issues such as the role of religion, the nature of regional differences, and the question of national identity. A particular focus will be major social institutions such as government, the family, and the mass media and how they reflect and influence the value orientations of Canadians.

Instructor: J.A.Hannigan / Sessions: Winter Day
H.Radecki Winter Evening

Teaching Method: Lectures plus tutorials

Evaluation: In each half of the course, a paper and a term test. (L01).

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 behaviour.

Instructor: J-L deLannoy Sessions: Winter Day

Teaching Method: Lectures, occasional tutorials.

Evaluation: Term paper/take-home examination.

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.L.deLannoy Session: Winter Day and Evening

Teaching Methods: Lectures and occasional tutorials

Evaluation: Term paper/take-home examination.

Prerequisite: None, but a knowledge of basic sociological concepts such as are taught introductory sociology courses, will be required.

Course description: The analysis of the social processes by which behaviour becomes defined as deviant; theories of causation and control; and the response of militant deviant subcultures. After ten weeks of lectures and tutorials on basic methods and theory, students conduct research on topics of their own choice, under continuing but informal faculty guidance. The final research report may take any suitable format - essay, voice tape, videotape, film, novel or other.

Instructors: J.A.Lee/T.B.A. Sessions: Winter Day and Evening

Content: (101)

- 1: Basic concepts in the sociology of "deviant" behaviour.
- 2: Substantive discussions of a sample of topic areas, such as mental illness, rape, homosexuality, white collar crime, truancy, obesity.
- 3: Theoretical approaches: social pathology, differential association, threat, labelling, neutralization, militant deviance and conflict analysis.

Teaching Method: (101) Fall term: 2 lectures a week on above content. After each student has chosen a research topic, seminars on methods of research (listed above) are organized. 2 term tests on lectures and assigned readings. Each student prepares an acceptable research proposal in detail. Spring term: Seminars on analysis of data. Students collect own data, report in stages, each of which is marked. Final complete research report submitted March 31.

Evaluation: Term tests 10% ea.; proposal 10%, methodology and analysis of report 15% ea.; final report 40%

description: This course will investigate the possible link between sociology and the sciences of biological evolution. It begins with an introduction to the basic principles of evolution in the natural sciences and a review of attempts by late nineteenth and early twentieth century theorists to link sociology to these sciences. The major part of the course will focus on the most recent attempts to apply an evolutionary perspective to the study of human behaviour. The course will consider such issues as the possible use of models in non-human social organization and behaviour as models for human social activities; the potential addition of sociobiological theory to research in the natural sciences; and the possibility of using Darwin's evolutionary context of origin as a basis to test current theory in sociology and to construct new theory. In this course students will become familiar with new discoveries from such disciplines as genetics, paleontology, ethology, paleoarchaeology, and statistics, and will learn to see how the growth of knowledge in these fields studying man can be related. In particular, the course will try to provide from an interdisciplinary basis a new perspective on many of the classic problems and questions in sociology.

Instructor: M.Hammond Session: Winter Day

Teaching Method: 2 hours per week of lectures, including some guest lecturers and films; and one hour per week of discussion and presentation of student papers.

Evaluation: Two short papers, one of which will be presented to class; and a major research paper due at the end of the second semester.

Prerequisites: One course in Sociology

Description: The course is concerned with the situations in which people in a society meet and mingle, the patterns of relations and behaviour that develop through frequent interaction, and the differences in perceptions, values, and attitudes that take place following regular and protracted interaction.

Instructor: H.Radecki Sessions: Summer Evening, Winter Day

Concepts of racism, prejudice and discrimination. Theories of assimilation, ethnic group survival, Canadian multiculturalism, immigration policies will be discussed. Focus on selected ethnic groups in Canada (Native peoples, Blacks, Asians, East and West Europeans, etc.). Immigrant's adjustment, marginality.

Method: Lectures and Tutorials

Evaluation:

- Written submission
- One-hour in-class test
- Two-hour examination.

Prerequisite: One course in Sociology

Course description: This course examines the works of various "non-sociological" social thinkers from the perspective of sociological theory. It will involve discussion of the key elements in the sociology of knowledge and in sociological theory, but it is not intended to be a complete course in either of these subjects, and is not considered a "Sociological Theory" course as required by the Major Programme in Sociology. While not formally required, a background in the history of social thought will be an advantage.

Instructor: R.O'Toole Session: Winter Day

Evaluation:

Papers and class participation.

Prerequisites: SOCB01 or (SOCC01) or SOCB07 or PSYB10 or permission of instructor

Course description: Contrary to the course title, the course will provide a more general consideration of social psychology. Our concern will be with the processes of interaction and influence in interpersonal behaviour. The course will provide an overview of the major areas of social psychology - attitude change, conformity, perception, roles. We will also seek to come to terms with an emergent paradigm in social psychology, encompassing impression management, attribution and labelling theories.

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

Teaching Method: Lectures and laboratory work

Prerequisites: Two courses in Sociology, one of which must be a course.

Course description: The study of "uninstitutionalized" group behaviour - crowds, panics, crazes, riots and the genesis of social movements. Limited enrolment: 15.

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

Location: To be announced.

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 termination. The course readings will be closely related to the above and a major concern will be to link the theoretical discussion with the concrete readings on movements.

Instructor: S.Ungar Session: Winter day

Method: Lectures and class discussion and/or presentations.

Reading:

St. (partial), Agrarian Socialism. (To be read as early as possible as it will provide a common resource for our discussions.)
Peasant Wars of the 20th Century. J. Skolnick, The Politics of Social Movements.

Prerequisites: Two courses in Sociology, one of which must be a B-level course

Course description: The relation of man to his occupations in a temporary society, including such topics as: occupational choice in a changing society, conceptions of work and leisure, mobility and career patterns, and professionalization. Limited enrolment: 15.

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

Evaluation: To be announced.

Prerequisites: Two courses in Sociology, one of which must be a B-level course.

Course description: The analysis of the teaching-learning process in educational institutions and structures, and the social experience of the teacher, student and administrator in education. This course will meet as a seminar to develop and apply sociological theory and methods in the study of education. Limited enrolment: 15.

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

Evaluation: To be announced.

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 show how all aspects of culture, from the most abstract to the most commercialized mass culture product, can be viewed from a sociological perspective. The lectures will focus primarily on film, literature, and music, both in Canada and abroad. Students will be able to choose any aspect of culture for analysis in their papers.

Instructor: M.Hammond Session: Winter day

Course Method: Two hours of lecture per week, including some speakers and films; and one hour per week of discussion and presentation of student papers.

Assignment: One short paper for presentation in class, and one major paper due at the end of the term.

Prerequisites: Two courses in Sociology, one of which must be a B-level course

Course description: A sociological approach to the bases, development 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 movements.

Instructor: J.A.Lee Session: Winter evening

1) Basic concepts - socialization, sex roles, sexual differentiation, division of labour, sex typing, sex structure etc. 2) History of sex differentiation and sex structure in various social systems, changing role definitions of each sex, relevant ideologies, feminism and liberation, militant movements, reactions, effects on social institutions. 3) Movements, political issues in relation to sex, power issues, sex-class struggle, as related to women's liberation, men's liberation, gay liberation. 4) Moral and religious issues related to sex and society.

Course Method: Two-hour class meeting each week. First hour a lecture. In the second hour, a variety of content - films, videotapes, participation by class members in papers, debates, dialogues, discussions (informal seminars) as required to assist students in developing a framework for a major paper (or other format) on topic of their choice. Two in-class term tests. Major paper may be based on theoretical and empirical study, or bibliographic or documentary research.

Assignment: Final mark comprised of two term tests worth 30% of total, a major paper worth 50% of total and 20% for participation in discussion.

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

Course description: An examination of the role of the mass media in contemporary Canadian society, the structure of media institutions, and the social effects of new communications technology. Topics to be discussed in depth include media access and control, crisis communication, and mass media and Canadian identity. Limited enrolment: 15.

Instructor: J.A.Hannigan Session: Winter evening

Teaching Method: Seminar form.

Evaluation: Each student will be expected to write a major term paper and to make a seminar presentation based on this. In addition, students will participate in a designated group project involving empirical research into a current issue/problem in Canadian mass communications.

Prerequisites: Two courses in Sociology, one of which must be a B-level course

Course description: Theories of conflict in the development of Sociology from Marx to the present applied to instances of social conflict, with particular reference to Canadian society. Limited enrolment: 15.

Instructor: J-L deLannoy Session: Winter day

Teaching Method: Lectures, occasional tutorials.

Evaluation: Term paper/take-home examination.

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: Winter day

Teaching Method: Weekly Seminar

Evaluation: Papers and class participation.

Prerequisites: SOCB18; one other course in Sociology

Course description: Specialized study of the etiology and consequences of criminal behaviour, with special reference to Canadian society. Limited enrolment: 20.

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

Evaluation: To be announced.

Prerequisites: SOCB18; one other course in Sociology

Course description: Sociological study of delinquent behaviour including theories relating to causation, community response and rehabilitation programmes. Limited enrolment: 30.

Instructor: H.Radecki Session: Winter Day

Content: Juvenile delinquency and delinquents from the legal, "conventional wisdom", and scientific points of view. Re-examination of some major theories. Analysis of Canadian and other societies' data. Action in response to delinquency from the police, courts, and other social agencies. course participants will be encouraged to develop and follow particular areas of interest through in-depth awareness of literature, supplemented by field research in some area of delinquency in Toronto.

Teaching Method: Lectures, with some general discussion.

Evaluation:

Minor written submission,
Essay/Research paper,
Final two-hour examination.

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: R.James Session: Winter Day

Content: Initial examination of the context of family change in Canadian society, including reference to the nature of social change, demographic characteristics of family, types of family change, and special areas of change.

Teaching Method: Initial lectures by instructor, followed by seminar presentations by students working in teams.

Evaluation: Take home examination, short research paper, and oral presentation.

Prerequisites: Two courses in Sociology, one of which must be a B-level course

Course description: Comparison of race relations in, for example, the United States and North America.

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

Content: To be announced.

Prerequisites: Two previous courses in Sociology

Course description: An in depth examination of the conditions, causes 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 systems. Limited enrolment: 20

Instructor: J.A.Hannigan Session: Winter Day

Teaching Method: Seminar form.

Evaluation: A major research paper, a seminar report, and an annotated bibliography.

S0CC27S 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: T.B.A. Session: Winter Day

Evaluation: To be announced.

S0CC28F Sociology of Aging

Prerequisites: SOCB12Y

Course description: An examination of the latter stages of the family life cycle, with special reference to the period following middle age, and including social and psychological dimensions of aging, changing roles, departure of children and its significance, retirement, problems of adjustment to aging, the place of the aged person in the modern family, and bereavement. Limited enrolment: 20

Instructor: R.James Session(s): Summer Day,
Winter Day

Teaching Method: Initial lectures by instructor, followed by seminar presentations by students working in teams.

Evaluation: Take home examination, short research paper, and oral presentation.

Variant Family Forms

Prerequisites: SOCB12Y

Course description: A review and sociological analysis of non-traditional family forms and innovative life styles representing departures from conventional marriage and family patterns in the past. Included will be "singleness", "living together", androgyny, life style, non-monogamous forms, voluntary childlessness, communes and co-operatives, and "swinging". Special reference to cultural and functional dimensions, role changes, special problems and community response. Limited enrolment: 20.

Instructor: R.James Session(s) Summer Evening,
Winter Day

Text:

Course description: above.

Teaching Method: Initial lectures by instructor, followed by seminar presentations by students working in teams.

Evaluation:

Take home examination, short research paper on some aspect of family life, and oral presentation.

Independent Studies

Prerequisites: Any fifteen courses; permission of instructor.

Course description: By arrangement with instructor.

Instructors: Members of the staff Session: Winter Day

Prerequisites: Any ten courses; permission of instructor.
(Students anticipating the selection of this course are advised to include SOCB01 early in their programme of studies)

Course description: Designed primarily for students taking the last five courses for their twenty-course degrees who wish to specialize in field research. The course includes the observation and reporting of social data. Under the guidance of the instructor, the student will be expected to concentrate on a major research project during the session, terminating with submission of a paper based on the experience.

Instructors: Members of the staff Session: Winter Day

Fine Representative: P.R. León

Students enrolling in Spanish, are offered a wide range of courses in Spanish language and in Peninsular and Spanish-American literature.

Students who do not intend to major in Spanish are free to choose other courses they wish, provided that they have satisfied the prerequisite. 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.

Students in Fine Art, History, Humanities, Linguistics, Philosophy, and 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.

Students enrolled in Spanish, some of whom may later wish to enter 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 coherent programme.

Introductory Spanish

Description: A course in basic grammar and syntax, with attention to spoken and written Spanish.

Instructor(s): R. Barta/R. Skyrme/ Session: Winter Day
K. Godde-Nijhowne Session: Winter Evening

Content: This course covers the basic aspects of Spanish grammar with reference to Hispanic culture and society. Stress is 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 a grammar textbook, plus conversation for supplementary oral practice.

Evaluation: Regular written assignments and quizzes. In-course examination.

SPAA01B Introductory Spanish

Course description: A course in basic grammar and syntax, with instruction in spoken and written Spanish.

Instructor: K. Godde-Nijhowne Session: Summer Day
(Summer Language Institute)

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.

N.B.: For those students taking this course in the Summer, registration is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. This course can also be taken in the Summer on a non-credit basis.

SPAB01Y Intermediate Spanish

Exclusion: SPAB02
Prerequisite: Grade 13 Spanish or SPAA01

Course description: Review of grammar and syntax: composition, translation and oral practice.

Instructor: P. León Session: Winter Day

Content: 1. Review of grammar and syntax. The text used will be Da Silva, A Concept Approach to Spanish, 3rd edition.
2. Language practice, through:
Conversation in class, tutorial practice, TV plays, back, dramatization, reading aloud and oral presentation.
3. Vocabulary acquisition, through:
Drills, on idiomatic expressions, cognates and regionalisms; translation of both prose and poetry, and composition.
4. Integration of stylistic devices, linguistic patterns, dialogue, etc., in a literary work.

Mimeographed materials, and audio visual aids (TV program, 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 classmate. The topic of this presentation will have to be agreed by the class as a whole before it is prepared. play by A. Casona, La barca sin pescador, will be the literary work used in addition to the above materials.

Evaluation: Class participation, oral and written tests, presentation of topic and two short compositions in Spanish will be worth 60%. Two half hour oral exams will be worth 40%.

SPAB03S Pre-Literary Examination of Texts

Prerequisite: SPAB01

Course description: The basic elements of style with rapid reading and comprehension of texts of various periods.

Instructor: R. Barta Session: Winter Day

Content: The training in observation and methodical analysis of literature for potential students of the literature of Spain and Latin America, through a review of the basic elements of style, with emphasis on methods of critical analysis and comprehension of literary texts, both prose and poetry, of various periods.

Teaching Methods: Three lecture/discussion hours weekly. Class participation is essential.

Evaluation: Regular oral and written commentaries on assigned texts. Grades at the discretion of instructor and students. In-course examination.

SPAB04F Phonetics

Prerequisite: SPAA01

Course description: Articulatory phonetics; Spanish speech sounds; intensive practice in their production and transcription.

Instructor: R. Skyrme Session: Winter Day

Objectives of the course are to develop good pronunciation of Castilian (with attention to variations in other dialects) and to use this as an introduction to further linguistic work. Weekly lecture concentrates on the description and distribution of Castilian speech sounds and emphasizes basic intonation patterns. In the tutorial hour students practise exercises in articulation, transcription, and dictation. There is one laboratory hour per week of intensive oral practice.

Preparation is based on weekly preparation of lecture material, transcription exercises and assignments in transcription, two review sessions, a student tape based on final transcription, and an in-term written test on lecture and reading material. Oral and written work are each worth 50% of final mark.

A. Quilis, Fonética y fonología españolas. Madrid, 1973.

This course is required for Spanish majors but open to all qualified students.

SPAB09F Cultural Aspects of Spain

Exclusion: (SPAB08)
Prerequisite: Grade 13 Spanish or SPAA01

Course description: Examination through readings and discussion, in Spanish, of aspects of the culture of Spain.

Instructor: J. Ignacio Chicoy-Dabán Sessions: Winter Day

Content: Social, intellectual and artistic components of the culture of Spain from pre-Roman time to the present will be studied with illustration by slides.

Teaching Method: Each chapter of the textbook will be presented in summary form to the class by a student. The instructor will comment on the presentation, give supplementary information and opportunity for discussion. The study and discussion of each chapter will be followed by illustrative slides.

Evaluation: One final examination (three hours. One essay of about 2,000 words on any of the topics suggested by the instructor. The essay and final examination can be written in English.

SPAB09S Cultural Aspects of Spain

Exclusion: (SPAB08)
Prerequisite: Grade 13 Spanish or SPAA01

Course description: Examination through readings and discussion, in Spanish, of aspects of the culture of Spain.

Instructor: J. Ignacio Chicoy-Dabán Sessions: Summer Day
(Summer Language Institute)

Content: Social, intellectual and artistic components of the culture of Spain from pre-Roman time to the present will be studied with illustration by slides.

Teaching Method: Each chapter of the textbook will be presented in summary form to the class by a student. The instructor will comment on the presentation, give supplementary information and opportunity for discussion. The study and discussion of each chapter will be followed by illustrative slides.

Evaluation: One final examination (three hours. One essay of about 2,000 words on any of the topics suggested by the instructor. The essay and final examination can be written in English.

N.B.: For those students taking this course in the Summer, registration is done by applying for admission to the Summer Language Institute. Application forms are attached to the SLI Brochure (available from Student Services, from H-332A and from the School of Continuing Studies). Interested students should read the SLI Brochure carefully. This course can also be taken in the Summer on a non-credit basis.

SPAB04 History of the Spanish Language

Prerequisite: SPAB04

Course description: The languages of Spain, from pre-Roman times to the present.

Instructor: R. Skyrme Session: Winter Day

Objective: The objective of the course is to develop a basic understanding of the Spanish language evolved from Latin, within the context of Romance languages. Survey of the Pre-Roman, Roman, Visigothic, and Moorish civilizations in the Peninsula will be followed by an analysis of the characteristics of spoken Latin, as evidenced in non-Classical texts (criptions, glosses, etc.). The main segment of the course deals with the evolution of the sound- and form-systems of Latin into Vulgar Romance, focussing on the growth of the Castilian dialect. Representative texts will be analyzed and class participation and discussion are encouraged.

Evaluation: Evaluation is based on weekly reading assignments, up to five written during term, and a written research assignment. Tests are 80%, assignment 20% of final mark.

R.K. Spaulding, How Spanish Grew. U. of Calif. Press, 1965. Elementary material will be available at beginning of course.

This course is required for Spanish majors but open to all qualified students.

SPAB03F Romanticism

Prerequisite: SPAA01

Course description: The origin and growth of the Romantic movement in Spain; its relationship to Neo-Classicism and the Spanish Enlightenment; a detailed study of the works of its principal exponents.

Instructor: R. Skyrme Session: Winter Day

Objective: The objective of the course is to encourage students beginning the study of Spanish literature to develop a broad understanding of the principal writers of the first half of the nineteenth century. More advanced students will have the opportunity to explore this period in greater depth. Study of late Neo-Classical writing will lead to a concentration on major exponents of the poetry, prose, and drama of the Romantic period, from Rivas, Larra, and Espronceda to Zorrilla and Bécquer. Relationship of the Romantic movement to the Spanish literary tradition and, where appropriate, to the Romantic literature of other countries will also be emphasized. Class participation and discussion are encouraged in a lecture-tutorial format.

Evaluation: Evaluation is based on oral and/or written commentaries on assigned readings, a term-paper, and an in-course final examination. Examination with 50%, paper and term work 50% of final mark. Lists of texts will be available in April, critical material at the beginning of the course.

SPAB18Y Survey of Spanish Literature I

Exclusion: (SPAB11) Prerequisite: SPAA01

Course description: Reading, analysis and discussion of Peninsula Spanish literature from the twelfth to the seventeenth centuries, with the object of acquainting the student with the major literary movements of each period, the authors and their works.

Instructor: R. Barta Session: Winter Day

Content: Lectures on background material. Areas of study will include the Medieval lyric, epic and clerical poetry; Medieval prose and drama; Renaissance poetry, prose and drama; Humanism; Mysticism; literature of the Baroque period.

Teaching method: Three lecture/discussion hours weekly. Class participation is essential.

Evaluation: Regular oral assignments; one paper; two term tests and and in-course examination.

SPAB21F Stylistics and Translation

Prerequisite: SPAB03

Course description: The examination of Spanish literature in relation to the resources of the language. Theory and practice of transmission of literary material from one language to another.

Instructor: R. Barta Session: Winter Day

Content: This course includes an analysis of the principles of stylistics applied to pertinent problems inherent in the study of Spanish literature of various periods, especially those dealing with translation of literary texts. Students will be made aware of the several modern schools of literary investigation both extrinsic and intrinsic, as well as the several approaches to translation and the levels of difficulty inherent in particular texts. A certain amount of creative composition is expected.

Teaching Method: Three lecture/practice hours weekly.

Evaluation: Regular class assignments. One in-term examination.

SPAB23Y Spanish Drama

Prerequisite: SPAB03, none for non-specialists.

Course description: A study of Spanish drama from the Middle Ages to the twentieth century. Complete plays of the major dramatists will be read and discussed. In some cases films of actual theatrical productions in Spanish will be shown.

Instructor: P. Leon Session: Winter Evening

Content: Two chronologically distinct periods will be studied in this course:

- 1- the Golden Age, roughly the 16th and 17th centuries
- 2- the second half of the 20th century

Attempt will be made to explain the social milieu of each period, to study the main dramatic currents both in Spain and abroad. Although emphasis will be placed on the literary analysis of the plays, practical aspects, such as the editing of a text for staging, acting, stage design, costumes, etc., will also be considered. If possible, one or more plays will be staged. Video tapes of professional productions in Spanish, made by the Spanish National Television will be shown. In addition, video tapes of productions staged by former members of the Drama Programme at Scarborough College, will also be shown. Play texts in Spanish and English.

Teaching Method: One two-hour lecture/seminar plus a one-hour tutorial per week.

Evaluation: Class work will include one long paper worth 30%, one test (or take home exam), worth 20%, and a short paper describing the staging of a play, worth 15%. Attendance and class participation will be worth 20%.

SPAB26F Golden Age of Poetry

Prerequisite: SPAB03

Course description: Study of the major poets of the Golden Age from Garcilaso to Gongora.

Instructor: J. Ignacio Chicoy-Dabán Session: Winter Day

Content: The course concentrates on the following main figures: Garcilaso de la Vega, Fernando de Herrera, Fray Luis de León, Juan de la Cruz, Lope de Vega, Góngora, and Quevedo.

Teaching Method: Using the textbook and the bibliography suggested by the instructor for each author, the student should make a presentation which should include a few important details on the life of the poet, some information on the poet's work in general, and a more detailed study of at least one of the poet's works contained in the textbook. The instructor will then comment on the student's presentation, and add more pertinent information. Once this is done for each author, the rest of his poems included in the textbook will be analyzed by the class as a whole. Class will be conducted in Spanish.

Evaluation: One 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 poems or parts of them.

essay of about 2,000 words on any of the topics suggested by the instructor.

Prerequisite: SPAB03 or SPA003
Corequisite: None

Course description: The following major aspects will be examined:
 (a) Lorca's early poems; (b) the *Romancero Gitano*; (c) poetic comedies and tragedies; (d) short plays and farces.

Instructor: P. León Session: Winter Day

Teaching Method: A two-hour lecture plus a tutorial per week.

Evaluation: One paper 10-15 pages long worth 35% and one two-hour in-term exam worth 35%. Attendance and class participation will be worth 30%.

Prerequisite: SPAA01

Course description: A study of the various types of novels written in Mexico from 1910 to the present time. Attention will be paid to the fundamental economic, social and cultural aspects of the Revolution.

Instructor: P. León Session: Winter Day

Content: An attempt will be made to analyze the Mexican Revolution, firstly as a political and social event, with reference to other contemporary revolutions; and secondly, as a literary movement. Excerpts from various literary works will be read in order to gain an understanding of the different approaches to the revolutionary novel. Finally, three complete works will be carefully analyzed in order to focus on distinctive aspects of the genre.

Teaching Method: A two-hour lecture plus a one-hour tutorial per week.

Evaluation: One 10-15 page paper worth 35% and one two-hour in-term exam worth 35%. Attendance and class participation worth 30%.

Prerequisite: SPAB03

Course description: A study of the Modernist movement, involving examination of the attitudes, themes, and techniques of some of the major authors.

Instructor: R. Skyrme Session: Winter Day

The objective of the course is to develop a broad understanding of Modernism, of its relationship to the Hispanic tradition and to other European literatures in the nineteenth century, particularly French, and to generate an appreciation, through detailed attention to individual authors, of the variety of styles and approaches within the apparent homogeneity of the movement.

The course begins with a study of the initiators of Modernism and of the principal characteristics of the movement, to show how it differed from earlier Spanish American literature and drew inspiration from poetic developments in nineteenth-century France. This is followed by a detailed examination of the poetic evolution of Rubén Darío, whose poetry serves as a framework for comparison with similar poets, attitudes, and techniques in other mature exponents of Modernism. Finally, an attempt is made to assess the importance of the movement for later poetic developments in the Hispanic world.

Assessment is based on oral and/or written commentaries on assigned readings, reports on reading assignments, a term-paper, and in-course examination. Term work and examination are each worth 50% of the final mark. Class discussion is encouraged in lecture-tutorial format.

G. Brotherston, *Spanish American Modernista Poets*. Pergamon, Mineographed anthology supplied by instructor. A critical bibliography will be available at beginning of course.

Prerequisite: SPAB03

Course description: A study of extracts from representative works of the period. The emphasis will be on the Arcipreste de Talavera's *Libro de Buen Amor*, Don Juan Manuel's *Conde Lucanor*, and the historical works of Alfonso el Sabio.

Instructor: J. Ignacio Chicoy-Dabán Session: Winter Day

Content: The course concentrates on the analysis of the texts themselves.

Teaching Method: Using the bibliography suggested by the instructor, each author, the student should make a presentation which should include a few important details on the life of the author in question and some information on his literary work in general. The texts selected for this course will be analyzed by the class as a whole. Class will be conducted in Spanish.

Evaluation: One final written examination (three hours) in which, after answering some general questions on some of the works and texts studied, the student should analyze specific passages.

An essay of about 2,000 words on any of the topics suggested by the instructor.

SPAB37S The Literature of the Spanish Mystics

Corequisite: SPAB03

Course description: After a short study of the genre in general, extracts of works representative of the major Spanish mysteries will be read, analyzed and discussed.

Instructor: J. Ignacio Chicoy-Dabán Session: Winter Day

Content: The course concentrates on the analysis of the texts themselves.

Teaching Method: Using the bibliography suggested by the instructor for each author, the student should make a presentation which should include a few important details on the life of the author in question and some information on his literary prose work in general. The texts selected for this course from five major mystics will be analyzed by the class as a whole. Class will be conducted in Spanish.

Evaluation: One 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 short texts.

One essay of about 2,000 words on any of the topics suggested by the instructor.

SPAC01Y Advanced Spanish

Exclusion: SPAB20

Prerequisite: SPAB01

Course description: Intensive study of grammar and syntax: translation, composition and oral practice.

Instructor: J. Ignacio Chicoy-Dabán Session: Winter Day

Content: Examination of points of Spanish grammar of an advanced level; regular assignments in translation and composition; oral practice.

Teaching Method: Three hours per week. Each period will be divided between oral practice and correcting and discussing the translations and compositions written by the students.

Evaluation: One final written in-course examination. One final oral in-course examination.

AC02F-C06F

C07S-C11S

Supervised Reading

Prerequisites: SPAB03; one course in Spanish Literature - (SPAB13 to SPAB37)

Structure of The Programme: Students who wish to enter on the Spanish Supervised Reading Programme should enrol in any of the above courses (or S as appropriate). They should then contact a particular instructor in the discipline and discuss with him a proposed topic. Students should have sufficient background in the area they want to study more closely, and they should provide a rationale for choosing a specific topic of study. The student will be expected to read much of the material on his own, and to meet with his tutor once a week, normally for a two hour period (the exact arrangements will depend on the nature of the text and the level of ability of the students). The purpose of these sessions will be to sort out any problems of comprehension, and to discuss the literary qualities and the cultural context of the work being studied.

Instructors: R. Barta, J. Chicoy-Dabán, Session: Winter Day
P. León, R. Skyrme

Content: Specific topics in Peninsular Spanish and Latin American literature, Linguistics and Culture.

Teaching Method: One two-hour tutorial session per week.

Evaluation: One paper and one in-term exam.

Timetable

Key

Explanation of Suffixes, Y, A, B, F, S and H

- 'Y' A course taught throughout the session worth one full course credit.
- 'A' A course taught in the first term and worth one full course credit.
- 'B' A course taught in the second term and worth one full course credit.
- 'F' A course taught in the first term and worth one-half course credit.
- 'S' A course taught in the second term and worth one-half course credit.
- 'H' A course taught throughout the session and worth one-half course credit.

Explanation of M, T, W, R, F and T.B.A.

M, T, W, R, F - the days of the week with R denoting Thursday.

T.B.A. - denotes that the student is responsible for arranging time and/or room with the instructor for that course.

Explanation of Letters

- L - lectures.
- P - practical work in laboratories or studios (* denotes every other week)
- T - tutorials
- E - evening

Explanation of Lecture Section Numbers

01 etc. day sections.
30 etc. evening sections

Tying of Sections

Some lecture, practical and tutorial sections must be taken as a "package". This means that the first two digits of the lecture, practical or tutorial section numbers must be the same, e.g. P0101 and T0102 must be taken with L01; and T3001 or T3002 must be taken with L30.

The reason for "tying" sections is that the subject matter may differ from section to section. Many courses are "untied" so it does not matter which practical or tutorial section is assigned with any particular lecture section. In such cases the first two digits of the practical or tutorial section number will be 00, e.g. P0001 or P0002 and T0001 or T0002 may be taken with L01 or L02 or L03.

Rooms

Students will be advised of rooms for courses in May, for Summer Session courses, and September, for Winter Session courses.

WINTER SESSION COURSES, 1977

May: Classes for 'F', 'H' and 'Y' courses begin
June: Classes for 'F' courses end
July: Classes for 'B' and 'S' courses begin
August: Classes for 'B', 'H' and 'S' and 'Y' courses end
'F', 'H', 'S' and 'Y' (evening) courses

Evening courses normally have classes two nights a week 7-9 pm.

Course Number	Course Title	Evening
B01F	Cultural Ecology	M W
B14Y	Human Evolution	T R
B21S	Cultures of North America	M W
B38S	Prehistory of North America North of Mexico	M W
B21Y	Greek and Roman Religion	T R
A01Y	Financial Accounting	M W
B01Y	Management Accounting	T R
A56H	Computer Programming	M
A01Y	Introduction to Economics	T R
C16S	Topics in Advanced Economic Theory	M W
A04Y	English Literature: Forms and Approaches	M W
B21F	Frontier Communities in the British Empire-Commonwealth-the South African Model	M W
B22S	British Imperialism	M W
A26Y	Calculus with Linear Algebra	T R
B41F	Techniques of the Calculus of Several Variables I	T R
B42S	Techniques of the Calculus of Several Variables II	T R
B11F	Philosophy of Law	T R
B15S	Philosophy of Education	T R
B10Y	International Relations	T R
A01Y	Introduction to Psychology	T R
B57F	Human Learning and Memory	M W
B65S	Biological Foundation of Behaviour	T R
C15F	Current Topics in Social Psychology	T R
B20Y	Ethnic and Race Relations	M W
C29S	Variant Family Forms	T R

'B' and 'S' (day) courses

Course Number	Course Title	Day and Time
A01B	Introduction to Anthropology	M to F 9-11
B19S	Introduction to Economic Anthropology	M to F 9
B25B	Human Osteology and Odontology	M to F 11-1
B45B	Ecology of Anthropological Populations	M to F 1-3
C12S	Research on Social Behaviour of Non-Human Primates	T.B.A.
B39B	Biogeography	M to F 9-11
A01S	Price Theory I	M to F 9
B05S	National Income and National Economy	M to F 1
B06S	Macroeconomic Policy	M to F 2
B61S	International Economics: Finance	M to F 11
B62S	International Economics: Trade Theory	M to F 12
B26B	Canadian Poetry in English	M to F 1-3
B05B	Studies in Restoration and Eighteenth Century Literature	M to F 9-11
B01B	Geography of Resources	M to F 11-1
B05B	Urban Geography	M to F 1-3
B01B	Fundamental Questions of Philosophy	M to F 9-11
B01B	Canadian Government and Politics	M to F 11-1

Course Number Course Title

PSY B10S	Introduction to Social Psychology
PSY C85S	History of Psychology
SOC A01B	Introduction to Sociology
SOC B01B	Methods in Social Research
SOC B05B	Urban Sociology
SOC C28S	Sociology of Aging

Day and

T R 1-3
M W F 11-
M to F 1-
M to F 9-
M to F 11-
M 1-3 W 1-

3) Summer Language Institute

The Summer Language Institute brochure is available from the Student Services office; Room H332A or The School of Continuing Studies.

4) Summer Session Courses at Durham College

A number of summer (evening) courses may be held at Durham College. However, details of these were not available when going to press.

SESSION EVENING COURSES

Tutorials may be given in addition to the lecture times given below. They will normally be given on the same night except as noted below.

SE NO.	TITLE	DAY & TIME
A01Y	Introduction to Anthropology	M 7-10E
B01Y	Greek and Roman Epic	T 7-9 E
A01Y	Financial Accounting	T 7-10E
B01Y	Management Accounting	R 7-10E
C15Y	Income Tax	W 7-10E
A56F	Computer Programming	Lec. W 7-9 E Tut. M 7-9 E
A66S	Programming Applications	Lec. W 7-9 E Tut. M 7-9 E
A01Y	Introduction to Economics	W 7-10E
B01F	Price Theory I	T 7-10E
B02S	Price Theory II	T 7-10E
B11F	Quantitative Methods in Economics	W 7-10E
B62F	International Economics: Trade Theory	T 7-10E
B82Y	European Economic History	R 7-10E
C07F	The Economics of Karl Marx	R 7-10E
C15F	Topics in Advanced Economic Theory	R 7-10E
A04Y	English Literature: Forms and Approaches	T 7-10E
B17Y	Fiction before 1832	M 7-10E
B24Y	Major American Authors	R 7-10E
B33Y	Fiction 1900-1950	W 7-10E
B36F	Expressionist Trends in Western Art from Van Gogh to Jackson Pollock	T 7-9 E
B43Y	Renaissance in Europe 1400-1600	M 7-9 E
B70F	Introductory Drawing	R 6-9 E
B82F	Introduction to Lithography	W 6-9 E
B83S	Intermediate Lithography	W 6-9 E
B42F	General History of the French Language	M 6-8 E
B43S	The French Language in Canada	M 6-8 E
B23Y	Topics in Regional Geography	R 7-10E
B02Y	Greek and Roman History from the Death of Alexander to the Gracchi	M 7-9 E
A01Y	The European World: An Introduction to History	M 7-9 E
B01Y	Nineteenth Century Britain, 1785-1918	W 7-9 E
B03Y	History of the United States	T 7-9 E
B28Y	Europe under the Enlightened Despots.	M 7-9 E
B33S	American Society and Thought Before the Civil War	T 6-8 E
B43Y	Ontario History, the Nineteenth Century	R 7-9 E
B20S	Anglo-Saxon England	W 7-9 E
B21Y	Urbanization and Social Change in Nineteenth Century England	M 7-9 E
C35F	Topics in American Labour History	T 7-9 E
B41F	Old Huronia	W 7-9 E
B61S	Beyond Consciousness	T 7-9 E
B54S	Industrial Relations	W 7-10E
A26Y	Calculus with Linear Algebra	Lec. T 7-9 E Tut. R 7-9 E
A01Y	Fundamental Questions of Philosophy	M 7-10E
B05F	Social Issues	W 7-10E
B10S	Society, the State and the Citizen	T 6-9 E
B60F	Existence and Reality	T 7-10E
A01Y	Canadian Government and Politics	W 7-10E
B05Y	Public Administration	M 7-10E
B06Y	Political Thought from Plato to Locke	M 7-10E
B19F	Intergovernmental Relations	T 7-9 E
B33Y	Politics and Government in India	T 7-10E

POL B34S
POL B39S
POL B40Y
POL C06Y
PSY A01Y
PSY B07F
PSY B12S
PSY B20S
PSY B30F
PSY B32F
PSY B32S
PSY B50F
PSY B56S
PSY B65S
SOC A01Y
SOC B03Y
SOC B12Y
SOC B13Y
SOC B16Y
SOC B18Y
SOC C10F
SOC C14S
SPA A01Y
SPA B23Y

Intergovernmental Relations in the
European Economic Community
Politics and Society in Contemporary
Japan
Canadian Foreign Policy
Comparative Communism
Introduction to Psychology
Data Analysis in Psychology
Advanced Social Psychology
Developmental Psychology
Personality
Abnormal Psychology
Abnormal Psychology
Sensation and Perception
Man and Machines
Biological Foundations of Behaviour
Introduction to Sociology
History of Social Thought
Sociology of the Family
Canadian Society
Social Change
Sociology of Deviant Behaviour
Sex, Self and Society
Mass Communication and Canadian
Introductory Spanish
Spanish Drama

T 7-9
R 7-10
W 7-10E
W 7-10E
W 7-10E
R 7-10E
T 7-10E
W 7-9 E
T 7-9 E
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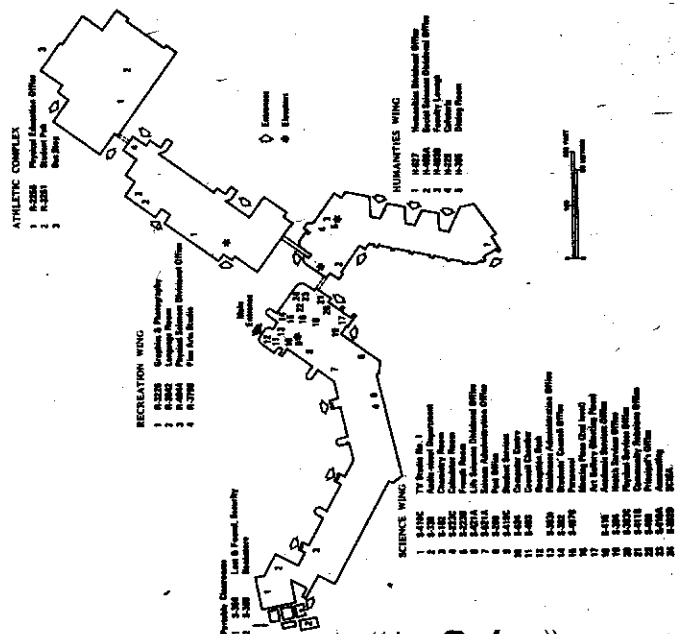
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C.	Academic Services-Secty.	3266	S-416C
ide, K.	Electronics	3159	S-109A
arly, M. (Mrs)	Sociology	3193	H-428
J.D.	Secty.-Soc. Sci. Div.	3302	H-409A
ess, W.J.	Leave of Absence		
n, D.	French	3197	H-335
ndienst, M	Psychology	3184	R-4012
at, R.	Anthropology	3136	H-423
at, V. (Mrs)	Anthropology	3252	H-427
atley, L.R.	Academic Services	3127	S-416B
ahov, N.	Chief Engineer	3123	Power Plant
K.M.	Russian	3197	H-330
insky, M.	Chemistry	3210	S-432
A.J.	Economics	3153	H-418
erg, P.P.	Chemistry	3336	S-511
A.	Astronomy	3171	H-510
	Psychology	3184	R-4006

		PHONE			PHONE	ROOM
Kumpunen, J.	Psychology	3339	S	Murrill, M.F.	Comptroller	3106 S-408
Kupka, I.	Mathematics	3340	R	Majoshi, Suniti M.	English	3182 R-5213
Kwan, H.	Library	3246	S	Maras, R. (Miss)	Laboratory Asst.	3130 R-5226A
Laaniste, Jaan	Phy. Ed.-Asst. Director	3393	R	M. C. (Mrs)	Biology	3337 S-540D
Lakhani, G. (Mrs)	Library	3246	S	Nicholson, G.	Philosophy	3315 H-313
Latta, M.	Anthropology	3153	H	Nicholson, T.	Library	3154 S-223C
Laurence, H.	Anthropology	3252	H	Nimmo, R. (Mrs)	Student Services	3292 S-418C
Lawson, Mrs. E.	Secty.-Adm. Asst.to Princ.	3243	S	Orman, J. (Mrs)	Library	3277 S-627
Le, L. (Mrs)	Library	3183	S	Donnell, P.J.	Physics	3192 R-4042
Leah, P.J.	Mathematics	3340	R	Blendorf, H.	German	3197 H-330
Lee, H.	Psychology	3353	S		L.O.A.-Spring/77	
Lee, J.A.	Sociology	3109	H		Zoology	3215 S-423
Lee, K.	Botany	3218	S	Toole, R.	Sociology	3109 H-516
Lee, M.J.G.	Physics	3194	R	Verend, B. (Mrs)	Academic Secretary	3150 H-525A
Lee, S.W.	Zoology	3224	S	Wallandi, T.	Director-Phys. Ed.	3121 R-2251
Legge, R.E.	Glassblower	3148	S	Wark, Y.L.	Mathematics	3192 R-4225
Le Herissier, M. (Mrs)	Adm. Asst. -Acad. Services	3359	S	Warker, I.	Economics	3212 R-5008
Leon, P. R.	Spanish	3186	H	Watenall, A.J.G.	English	3179 R-5010
Library Storage Houses	3290 & 3316 Ellesmere Rd.	3265		Waker, J.	Psychology	3339 S-540B
Logsdon, Mrs. M.	Postmistress	3271	P	Wahl, J.L.	History	3314 H-315A
Long, T.C.(Ms)	English	3146	R	Warrall, R. (Mrs)	Academic Services	3127 S-415
Lopez, E.	Audio/Visual Tech.	3152/3350	S	Warrson, L. (Mrs)	Life Sciences-Secty.	3291 S-421B
Lowrey, C. (Miss)	Slide Cataloguer	3146	R	Wark, W.	Zoology	3329 R-4014
Lyons, P.	Psychology	3337	S	Warrault, C.R.	Computer Science	3194 R-4018
MacDonnell, N.	Storekeeper	3281	S	Wertz, J.M.	Physics	3231 S-525
MacDowell, R.	Commerce	3115	H	Witt, T.	Psychology	3321 S-557
Magee, L.	Psychology	3339	S	Physical Geography Research Laboratory		3301 S-436
Mahony, J.	Zoology	3224	S	Physical Geography Teaching Laboratory		3301 S-312
Mann, R.	Supervisor-Bldg. Serv.	3285	S	Physical Science Teaching Assistants		3378 R-4710
Mansfield, M. (Mrs)	Library	3317	S	Wickett, C.	Zoology	3353 S-517
Mantuani, M.A.	Zoology	3221	S	Wickup, L. (Mrs)	Academic Secretary	3151 H-332A
Manzer, R.A.	Political Science	3168	R	Wierce, S.J.	Leave of Absence	
Margeson, J.M.R.	English	3175	H	Wiskalnietis, M.A. (Mrs)	Phys. Ed.-Asst. Director	3294 R-2259
Marin, L.	Biology	3353	S	Witz, D. (Mrs)	Recept.-Acad. Services	3300/3127 S-416A
Marnoch G.	Locksmith	3235	S	Womareff, C.V.	Russian	3258 H-320
Martin, P.G.	Astronomy	3352	R	Wright, T.	Draftsman	3327 S-303D
Mawson, N. (Mrs)	Adm. Asst.-Residences	3174	S	Witter, J.	Chemistry	3133 S-162
McAuliffe, D.J.	Italian	3334	R	Wyer, P. (Miss)	Library	3277 S-627
McClelland, R.A.	Chemistry	3227	S	Wyer Station		3273
McConnell, G.	Greenhouse	3236	S	Wye, A.	Geography	3301 S-567
McDonald, I.R.	Classics	3205	H	Wychology Post Doctorals		3337 S-538A
McFeat, T.	Anthropology	3252	H	Wicki, H.	Sociology	3109 H-515
McGee, T.J.	Music	3126	S	Wio Scarborough		3356 S-204
McKay, W.	History	3175	H	Wierthy, S. (Miss)	Animal Technician	3239 S-609
McKenzie, E.	Sociology	3109	H	Whebs, M. (Miss)	Academic Services	3127 S-416B
McKoon, G.	Psychology	3218	S	Wheharitar, H.	Audio Visual Maintenance	3152/3350 S-265
McLean A. (Miss)	Secty.-Phys. Ed.	3393	R	Whey, R.H.	English	3370 R-3241
Meiss, D.	Zoology	3215	S	Wopert, A.	Mathematics	3192 R-4038
Mendelsohn, E.	Mathematics	3192	R	Wopertion Desk	Main Entrance	3333/3398
Mignault, L.B.	French	3151	H	Wopertion General Enquiry		3300
Miki, B.	Biology	3224	S	Wopert, C.	Academic Secretary	3329 S-521B
Miki, C.	Biology	3224	S	Wopert, J. (Mrs)	Library	3240 S-637
Milgram, N.W.	Psychology	3353	S	Wopert, E.	Geography	3326 R-5712
Miron, J.	Geography	3130	R			
Mittler, S.E.(Miss)	French	3178	H	Wardson, G.P.	Chairman-Div. of Hum.	3309 H-528
Moenck, R.T.	French	3194	R	Wardson, P. (Mrs)	Post Office	3271
Moes, P.C.	Computer Science	3178	H	Wardie, J.C.	Botany	3215 S-559
Moggridge, D.	French	3115	H	Wardts, S.	Accounting	3103 S-411A
Moir, J.S.	Economics	3175	H	Wardtson, I.R.	History	3258 H-319
Montgomery, B. (Mrs)	History	3175	H	Ward, R.C.	Astronomy	3352 R-4233
Montgomery, L.A.	Comm. Relations Office	3243	S	Ward, N.	Music	3126 S-356
Moore, E.	Adm. Off.-Div. of Sci.	3131	S	Wardoff, A.	Political Science	3168 R-5233
Morris, G. (Mrs)	Mathematics	3378	R	Wardell, C. (Mrs)	Fees Counsellor	3116 S-407
Mosher, D.L.	Library	3238	S	Wardell, M. (Mrs)	Health Service	3253 S-304
Mugnier, F. (Ms)	Philosophy	3144	H	Ward, A.P.		3196 R-2000
Mulgrave, N. (Miss)	French	3197	H	Ward, P.H.	Associate Dean (Acad.)	3124 S-414
Murrill, E.I. (Mrs)	Audio Vis. Dept.	3152/3350	S	Wardbrook, K.R.J.	Leave of Absence	
	Adm. Asst.-Accounting	3293	S			

		PHONE	ROOM			PHONE	ROOM
Sanguin, J. (Mrs)	Asst. to Comptroller	3396	S-40	Ungar, S.	Sociology	3109	H-514
Sant, M.	Geography	3326	R-57	Urquhart, F.A.	Zoology	3221/3237	S-549A
Sarson, J.	Bldg. Serv. Office	3285	S-21	Urquhart, N. (Mrs)	Zoology	3221/3237	S-549
Sawchuk, L.	Anthropology	3137	R-25	Uttley, P. (Mrs)	Principal's Office	3138	S-405A
Scadding, J.	Economics	3153	H-41	Van Beveren, C.H.	Physical Services	3180 Res.Trailer	
Scavizzi, G.	Fine Art	3334	R-37	Van Veen, G.H.	Physics	3342/3289	R-2503
	L.O.A. Spring/77			Vardy, P. (Mrs)	Library	3165	S-653A
Schaerer, B. (Miss)	Academic Secretary	3150	H-525	Verner, A. (Mrs)	Chemistry	3133	S-162
Scholtens, A. (Mrs)	Library	3246	S-505	Vicari, E.P. (Mrs)	English	3288	H-512
Schonberg, M.Q.	Drama	3126	S-259	Voss, G.	Zoology	3321	S-566
Schroeder, H.B.	Anthropology	3136	S311 & H42	Walker, A.	Leave of Absence		
Schuyffel, P.H.	Electronics	3159	S-109	Walker, M.B.	Physics	3340	R-4237
Schwimmer, E.G.	Leave of Absence			Warden, J.R.	Assoc. Chairman, Classics	3141	H-522
Scott, J. (Miss)	Co-ordinator School Liaison Programme	3117	S-407	Weatherley, A.H.	Biology	3353	S-515
	Printing Department	3108	S-202	Webb, R.	Biology	3125	S-420B
Shank, C.	Mathematics	3194	R-402	Weisser, K.	Technical Services	3282	S-109
Sharpe, R.W.	History	3314	H-321	Wesley, K.	Electronics	3159	S-109A
Sheps, A.N.	German	3288	H-506	Western, P. (Mrs)	Admin. Ass't. -Humanities	3304	H-527
Sherman, U.L. (Mrs)	Anthropology	3252	H-426	Westgate, J.A.	Geology	3162/3231	S-521
Shirley, R.W.	L.O.A. (Jan/77 to Jan/78)			Westin, R.	Economics	3115	H-414
	Mathematics	3378	R-403	Westin, S.	Economics	3115	H-414
Shum, D.	Chemistry	3125	S-420	Whalen, S. (Ms)	Russian	3346	H-315
Shum, R.	Biology	3215	S-425	Wiederkehr, M. (Miss)	Library	3202	S-649
Sidon, E.	Fine Art	3307	R-323	Wilker, J.B.	Mathematics	3192	R-4040
Siebelhoff, R.	Microbiology	3339	S-548	Willadsen, I. (Mrs)	Physical Services Office	3203	S-303C
Silver, J.	Geography	3130	R-570	Willard C. (Mrs)	Library	3202	S-645A
Singh, B.	Teaching-Learning Unit	3369	R-416	Willard, J.	Landscape Foreman	3272	S-200B
Skelhorne, Jean	Spanish	3258	H-317	Williams, L.	Anthropology	3137	R-2509A
Skyrme, R.	Accounting	3164	S-411	Wilson, Douglas	Purchasing-Buyer	3247	1069 M.Tr
Smith, I. (Mrs)	Psychology	3321	S-533	Wilson, M. (Mrs)	Residence Office	3391	S-303I
Smith, M. (Mrs)	Sabbatical Leave			Wittmann, H.	German	3346	H-314
Sobel, J.H.	Sociology Graphics Area	3137	R-251	Wolatin, L.B.	Electronics	3159	S-109A
Solomon, S. (Mrs)	Political Science	3170	R-524	Wong, J.	Chemistry	3133	S-427A
Soobrian, I.	Chief Constable	3274	S-500	Wood, J. (Mrs)	Academic Services	3127	S-416B
Sordan, C. (Mrs)	Laboratory Technician	3283	S-132	Wood, M. (Mrs)	Secty.-Assoc. Dean(Academic)	3124	S-414A
Sowby, Mrs. J.	Library	3317	S-508	Woodward, S.	Commerce	3115	H-428A
Sparling, C. (Mrs)	Botany	3218	S-553	Woods, J.D.	Sabbatical Leave		
Sparrow, C.	Leave of Absence			Wollatt, G.	Physics	3342	R-2503
Spencer, G.	Purchasing	3286	1069 M.Tr	Workshops	Electrician, Plumber & Locksmith, Carpenter	3235	S-107,106
Spilsbury, S. (Mrs)	Library	3317	S-504				105B,105
Spilsbury, S. (Mrs)	Library	3317	S-504				
Statten, T. (Dr.)	Psychiatrist	3303	S-304	Warrall, R.	Geography	3130	R-5710
Stevens, J.	Chemistry	3210	S-534	Wright, G.	Zoology	3215	S-423
Stren, R.	Political Science	3170	R-524	Wright, R.L.	Ass't. Manager-Phys. Serv.	3200	S-303E
Student Council	President's Office	3344	S-38	Wright, R.L.	Printing Laboratory	3369	R-5223
Student Council	Administrator's Office	3135/3343/3344	S-382	Wilmov, P. (Mrs)	Library	3183	S-503
				Wamoto, P. (Mrs)	Library	3238	S-635
Students Council	Middle Commissioners Office	3343	S-307	Wazaki, J. (Mrs)	Secty. Phys. Sci. Div.	3342	R-4296
Students Pub Phone		3177	R-325	Wheff, D.	Chemistry	3227	S-427
Student Services		3292		Wong Chung, E.	Teaching Preparation	3217	S-322
Subramaniam, I.	Sociology	3109	H-514	Wong, J.H.	Zoology	3321/3215	S-566
Suggitt, J.P.	Audio/Visual Equipment	3152/3350	S-341	Wong, S.	Teaching Preparation	3217	S-228
Sullivan, D. (Mrs)	Academic Secretary	3115	H-411				
Tait, M. S.	English	3179	R-521				
Tapper, G. (Mrs)	Accounting	3195	S-410				
Tarshis, L.	Economics	3153	H-411				
Tepfenhardt, W. (Mrs)	German	3314	H-318				
Terrell, B. (Mrs)	Accounting	3206	S-410				
Theil, K.H.	English	3370	R-501				
Thomas, A.C.	English	3179	R-501				
Thompson, R.P.	Philosophy	3288	H-513				
Tidwell, T.T.	Chemistry	3210	S-535				
Toombs, G.	Printing Department	3108	S-202				
Torkin, L.	Commerce	3115	H-422				
Trembley, G.F.R.	French	3178	H-327				
Tuck, C. (Mrs)	Academic Secretary	3326	R-511				
Tyree, E.L. (Mrs)	Fine Art	3307	R-323				

UNIVERSITY OF TORONTO



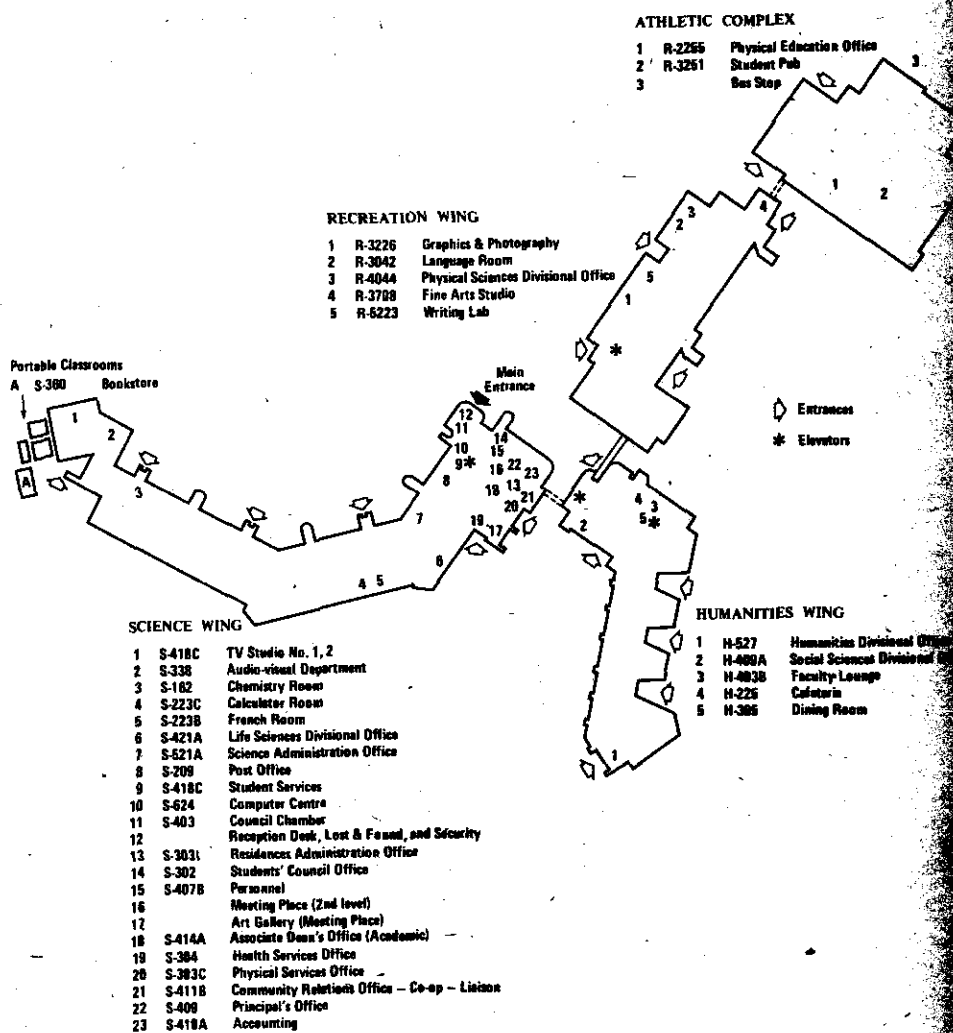
The map is a detailed site plan of the University of Guelph campus and its immediate surroundings. It is divided into two main sections: a regional overview at the top and a detailed campus map at the bottom.

Regional Overview (Top Section):

- Geography:** Shows the campus location relative to Lake Ontario to the south and the Macdonald Cartier Freeway to the north.
- Road Network:** Key roads include Military Trail, Ellesmere Road, Lawrence Avenue, and the Kingsway to Lawrence Transitway.
- Scale:** A scale bar indicates distances of 1 mile and 1 kilometre.
- Orientation:** A north arrow is present.
- Landmarks:** Two ponds are shown in the upper right corner.

Detailed Campus Map (Bottom Section):

- Buildings and Complexes:** The Athletic Complex is a central feature, including the 'R' Wing and 'H' Wing. Other buildings include the Visitor Parking, Lot R, Lot A, Lot B, Student Residences, and the Motorcycle Park.
- Parking Areas:** Several parking lots are designated, including Lot D, Lot A, Lot B, and Lot C.
- Water Features:** Highland Creek flows through the campus, and a Campus Stables area is located near the creek.
- Other Landmarks:** The Principal's Residence and a Campus Stables area are also shown.
- Scale:** A scale bar indicates distances of 400 feet and 100 metres.
- Orientation:** A north arrow is present.



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.

Signed: _____ Date: _____

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.

Signed: _____ Date: _____

