

2011-2012 Undergraduate Calendar

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2011-2012 academic year, including the Summer Semester 2011, the Fall Semester 2011 and the Winter Semester 2012.

For your convenience the Undergraduate Calendar is available in PDF format.

If you wish to link to the Undergraduate Calendar please refer to the Linking Guidelines.

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Disclaimer

University of Guelph 2011

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2011-2012 academic year, including the Summer Semester 2011, the Fall Semester 2011 and the Winter Semester 2012.

The University reserves the right to change without notice any information contained in this calendar, including fees, any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs. The publication of information in this calendar does not bind the University to the provision of courses, programs, schedules of studies, or facilities as listed herein.

The University will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by faculty, staff or students of the University or by others, civil unrest or disobedience, public health emergencies, or any other cause of any kind beyond the reasonable control of the University.

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Introduction

Collection, Use and Disclosure of Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) <http://www.e-laws.gov.on.ca/index.html>. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Training, Colleges and Universities, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see <http://www.uoguelph.ca/registrar/registrar/index.cfm?index>.

Statistics Canada - Notification of Disclosure

For further information, please see Statistics Canada's web site at <http://www.statcan.ca> and Section XIV Statistics Canada.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly. See Section I--Statement of Students' Academic Responsibilities for more information.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through Undergraduate Program Services.

Name Changes

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, his/her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Student Confidentiality and Release of Student Information Policy Excerpt

The University undertakes to protect the privacy of each student and the confidentiality of his or her record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work.

Complete policy at <http://www.uoguelph.ca/policies/pdf/ORSInfoReleasePolicy060610.pdf>.

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Bachelor of Arts (B.A.)

The University of Guelph offers general and honours programs leading to the B.A. degree. The General Program consists of a minimum of 15.00 credits requiring the equivalent of 6 semesters of successful full time study. The Honours Program consists of a minimum of 20.00 credits requiring the equivalent of 8 semesters of successful full time study. A student may register in Summer, Fall and Winter semesters. The normal course load is 2.50 credits per semester for a full time student on regular status. Students may register for 0.50 credit more at their own discretion. Part time study consists of 1.50 credits or fewer per semester.

Program Information

A student's selection of courses must follow the B.A. Program Regulations (including Distribution Requirements), a pattern of study for either the General or Honours degree (below), and the detailed schedule(s) of studies which follow for any special subject(s) studied.

In fulfilling distribution requirements a) and b) students must in semester 1 choose 2 courses from 2 different schools or departments in the College of Arts and 2 courses from 2 of the following departments in the College of Social and Applied Human Sciences and the College of Management and Economics: Economics, Geography, Political Science, Psychology, Sociology and Anthropology.

Students entering the B.A. program with advanced standing must complete the distribution requirements a) and b) as soon as possible after entrance to the program. Requirement c) need not be completed immediately but is a graduation requirement.

Note: Courses taken to satisfy the distribution requirements may also be counted toward a specialization in the general or honours program.

Academic Counselling

Program Counselling

Students are urged to seek the assistance of the counsellors in the B.A. Counselling Office regarding their program and academic regulations, selecting courses, services and resources available on campus, and when they are experiencing difficulties that affect their academic progress.

Departmental Advising

Every academic department has advisors available to assist students in their course selection planning. Students should seek the advice of the faculty advisor when declaring a major, area of concentration, or minor, regarding course scheduling and completing the requirements for the specializations.

Students encountering difficulties within a course should first consult the instructor of the course. Co-operative education students in Computing and Information Science, Economics and Psychology will also have a departmental Co-op Academic Advisor and Co-ordinator, and should consult Co-operative Education Services regarding scheduling work terms and the COOP*1000 course.

Academic Residence Requirements

1. At least 5.00 of the credits required for graduation by the student's program must be taken at the University of Guelph.
2. At least 60% of the 3000 and 4000 level courses required for graduation must be taken at the University of Guelph.

University of Guelph courses include courses taken on exchange and on study abroad programs. Letter of Permission courses are not included.

Continuation of Study

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations and Procedures of this calendar.

Conditions for Graduation

In addition to meeting the general and honours degree requirements listed below under Program Regulations, students will not normally be eligible to graduate while on probationary or required-to-withdraw status.

Distribution Requirements

The distribution requirements are designed to provide the student with exposure to and some understanding of a range of disciplines in the Arts, Social Sciences and Mathematical and Natural Sciences.

The distribution requirement of 8 courses (minimum 4.00 credits) is as follows:

- A. A minimum of 1.50 credits over at least 2 different subject areas in the humanities:

ARTH Art History
 CHIN Mandarin
 CLAS Classical Studies
 ENGL English
 EURO European Studies
 FREN French Studies
 GERM German Studies
 GREK Greek

HISP Hispanic Studies
 HIST History
 HUMN Humanities
 ITAL Italian Studies
 LAT Latin
 LING Linguistics
 MUSC Music
 PHIL Philosophy
 PORT Portuguese
 SART Studio Art
 THST Theatre Studies
 WMST Women's Studies

- B. A minimum of 1.50 credits over at least two of the following subject areas in the social sciences:

ANTH Anthropology
 ECON Economics
 GEOG Geography
 IDEV International Development
 ISS Interdisciplinary Social Science
 POLS Political Science
 PSYC Psychology
 SOAN Sociology and Anthropology
 SOC Sociology
 WMST Women's Studies

- C. 1.00 credits in natural and/or mathematical sciences from the list below.

Natural and Mathematical Science Courses Acceptable for B.A. Distribution Requirements

Students must take 1.00 credits in natural and/or mathematical science courses to fulfill the B.A. science requirements. Students should choose their courses from the list below or any course for which those listed serve as prerequisites. Students are advised to fulfill this requirement before their final semester. Any problems related to this requirement should be discussed with a B.A. Program Counsellor.

Courses recommended for students with limited preparation (e.g.. lacking 4U credit in a specific area):

BIOL*1020	[0.50]	Introduction to Biology
BIOL*1500	[0.50]	Humans in the Natural World
BIOM*2000	[0.50]	Concepts in Human Physiology
BOT*1200	[0.50]	Plants and Human Use
CHEM*1060	[0.50]	Introductory Chemistry
CHEM*1100	[0.50]	Chemistry Today
CIS*1000	[0.50]	Introduction to Computer Applications
CROP*1050	[0.50]	Green Energy - Fuel from Plants
ENVB*2210	[0.50]	Introductory Apiculture
FOOD*2010	[0.50]	Principles of Food Science
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
GEOG*1350	[0.50]	Earth: Hazards and Global Change
GEOL*1050	[0.50]	Geology and the Environment
GEOL*1100	[0.50]	Principles of Geology
HORT*1120	[0.50]	Grape and Wine Science
HORT*1130	[0.50]	Science of Gardening
MBG*1000	[0.50]	Genetics and Society
MET*1000	[0.50]	The Atmospheric Environment
MUSC*1090	[0.50]	Physics of Music
NUTR*1010	[0.50]	Nutrition and Society
PHYS*1600	[0.50]	Contemporary Astronomy
PHYS*1810	[0.50]	Physics of Music
SOIL*2010	[0.50]	Soil Science

Other acceptable courses which require 4U or university preparation:

BIOL*1XXX	[0.00]	Any BIOL course at the 1000 level
CHEM*1XXX	[0.00]	Any CHEM course at the 1000 level
CIS*1XXX	[0.00]	Any CIS course at the 1000 level
CIS*2100	[0.50]	Scientific Computing and Applications Development
GEOL*2250	[0.50]	Geology of Natural Disasters
HK*2100*(Only available to SART majors)	[0.50]	Anatomy for Artists
MATH*1XXX	[0.00]	Any MATH course at the 1000 level
MET*2030	[0.50]	Meteorology and Climatology
PHYS*1XXX	[0.00]	Any PHYS course at the 1000 level
STAT*2XXX	[0.00]	Any STAT course at the 2000 level

Double Counting of Courses

A maximum of 50 percent of the courses in a second major or minor may be courses taken in fulfillment of the first major where required courses are the same. Double counting is not allowed in the General Program.

Program Regulations

The General Degree Program provides the opportunity for a sound general education in the arts and social sciences, mathematics and sciences, while allowing for concentration of studies in one or more subjects.

The Honours Degree Program provides depth of study in one specialization, strengthening written and oral communication skills, research and analytical abilities, as well as ensuring a breadth of study in the arts, social sciences, mathematics and sciences.

General Degree Requirements (BAG)

To graduate from a general program a student must:

- earn 15.00 credits. These must include courses that fulfill the distribution requirements (see below). At least 4.00 credits must be at the 3000 level or above. Not more than 6.00 credits at the introductory (1000) level may be counted towards the 15.00 credits requirement.
- 9.00 of the required 15.00 credits must be in courses offered by the College of Arts, the departments of Economics, Geography, Political Science, Psychology, Sociology and Anthropology (in the College of Social and Applied Human Sciences and the College of Management and Economics), the Department of Computing and Information Science, or the Department of Mathematics and Statistics.
- no more than 11.00 credits in any one subject or discipline, as indicated by the course prefix code, can be counted towards a general degree.

While students are encouraged to complete the requirements of one or more areas of concentration, this is not a graduation requirement.

The requirements for each area of concentration are set out separately in the pages following the list of Honours and General Specializations Available in the B.A. Degree.

Honours Degree Requirements (BAH)

To graduate from an honours program a student must:

- earn 20.00 credits. These must include courses that fulfill the distribution requirements (see below), and courses that fulfill the requirements of at least 1 major. At least 7.00 credits must be at the 3000 level or above. Not more than 6.00 credits from courses at the introductory (1000) level may be counted towards the 20.00 credits requirement.
- fulfill the course and credit requirements of at least one major with a cumulative average of at least 70% in all course attempts at the University of Guelph in that major. Grades in all courses in the discipline area of the major are included in the cumulative average. Grades from those courses in other disciplines listed as options toward the major are also included in the average. (This condition does not apply to majors in the interdisciplinary programs of International Development and European Studies, where only courses in the core and chosen area of emphasis will be counted toward the specialization average.) Students may take more than one major. They may also take one or more minors. The 70% requirement applies to each major and minor.
- no more than 14.00 credits in any one subject or discipline, as indicated by the course prefix code, can be counted towards an Honours Degree.

The requirements for each major and minor are set out separately in the pages following the list of Honours and General Specializations Available in the B.A. Degree.

University recognition that a student has graduated with a particular major or minor requires a cumulative average of 70% for all course attempts at this University in that major or minor.

Students failing to meet the graduation requirements of the Honours Program may apply to graduate with a General Degree if the requirements for the General Degree are met. Students should note that a specialization is not required to graduate with a General Degree.

Honours B.A. students, except those doing a major in Computing and Information Science, Mathematics or Statistics, must take a minimum of 12.00 credits from either or both of the departments in the College of Arts and the departments of Economics, Geography, Political Science, Psychology, Sociology and Anthropology (in the College of Social and Applied Human Sciences and the College of Management and Economics).

Semester One Requirements

Students in the General and Honours Programs must take:

Semester 1

1.00 credits from the following:

Art History - ARTH*1220, ARTH*1510

Chinese - CHIN*1200

Classical Studies - CLAS*1000

English - ENGL*1080, ENGL*1200

European Studies - EURO*1050, EURO*1200

French Studies - FREN*1000, FREN*1200

German Studies - GERM*1100, GERM*1110, GERM*2490 (4U Required)

Greek - GREK*1100

Hispanic Studies - HISP*1100, HISP*1110

History - HIST*1010, HIST*1150, HIST*1250

Italian Studies - ITAL*1060

Latin - LAT*1100

Music - MUSC*1060, MUSC*1180, MUSC*1500

Philosophy - PHIL*1000, PHIL*1010, PHIL*1050

Portuguese - PORT*1100

Studio Art - SART*1050, SART*1060

Theatre Studies - THST*1040, THST*1200

Women's Studies - WMST*1000

PLUS

1.00 credits from the following:

Anthropology - ANTH*1120, ANTH*1150

Economics - ECON*1050

Geography - GEOG*1200, GEOG*1220, GEOG*1300

Political Science - POLS*1150, POLS*1400, POLS*1500

Psychology - PSYC*1100, PSYC*1200

Sociology - SOC*1100, SOC*1500

Study at Other Universities

Students contemplating study at another university for credit towards a Bachelor of Arts degree at the University of Guelph should refer to the general regulations governing Letters of Permission in Section VIII--Degree Regulations & Procedures in this calendar.

Students must obtain approval for the Letter of Permission prior to undertaking studies at another institution. Approval of the request depends on good standing in the program with a minimum average of 60%.

The normal limit of credits taken on a Letter of Permission is 2.50 based on Guelph credits.

Students with a specialization in languages who want to undertake a program of study in Quebec or abroad should consult the appropriate departmental advisor or the Director of the School of Languages and Literatures.

Special Study Options

London Study Semester

A special program of studies designed to make use of the uniquely rich resources of London, England, is offered as a regular part of the B.A. program every Fall semester. The program is supervised by a faculty member from Guelph who directs the studies in London and supervises correspondence with faculty in Guelph. Courses in London are of 2 kinds: London based courses and correspondence courses. London based courses in music, theatre and fine art are given by British tutors, and the coordinator offers courses in his/her area of interest. Students are also permitted to arrange correspondence courses to meet their particular needs. Students wishing to apply for the London Semester should have good academic standing and should have completed at least 2 semesters at the University of Guelph at the time of application; although preference will be given to those with a cumulative average of 70% or above, all applications will be given careful consideration. More detailed information about academic requirements, bursaries, courses, etc. can be obtained from the B.A. Program Counselling Office, Room 130 in the MacKinnon Building.

The University of Guelph offers many other Study Abroad and Exchange opportunities for students to enrich their learning experience. Bachelor of Arts students are encouraged to participate in any of the diverse options available. Courses taken while on exchange or study abroad can be used as electives or core requirements. For further information on the programs available, please refer to Section V - International Study. Students are advised to meet with a B.A. Program Counsellor to discuss the feasibility of participating in an exchange or semester abroad.

Honours and General Specializations Available in the B.A. Degree

General Program Areas of Concentration

Anthropology

English

French Studies

Geography

Hispanic Studies

History

International Development

Mathematics

Music

Philosophy

Political Science

Sociology

Statistics

Theatre Studies

The schedule of studies for each area of concentration is given on the following pages under its subject heading.

Honours Program Majors

Anthropology
Applied Mathematics and Statistics
Art History
Classical Studies
Criminal Justice and Public Policy
Economics*
English
Environmental Governance
European Studies
Food, Agriculture and Resource Economics
French Studies
Geography
Hispanic Studies
History
Individual Studies
Information Systems and Human Behaviour
International Development
Mathematical Economics
Mathematics
Music
Philosophy
Political Science
Psychology*
Sociology
Statistics
Studio Art
Theatre Studies

Subjects marked with an asterisk (*) may be available as Co-operative Education programs. The schedule of studies for each major is given on the following pages under its subject heading.

Honours Program Minors

Anthropology
Art History
Art Theory and Criticism
Business Administration
Classical Studies
Computing and Information Science
Criminal Justice and Public Policy
Economics
English
Ethics in the Life Sciences
European Culture and Civilization
Family and Child Studies
French Studies
Geography
German
Hispanic Studies
History
International Development
Italian
Marketing Management
Mathematics
Museum Studies
Music
Philosophy
Political Science
Psychology
Sociology
Statistics
Studio Art
Theatre Studies
Visual Arts of the Americas

The schedule of studies for each minor is given on the following pages under its subject heading.

Anthropology (ANTH)

Department of Sociology and Anthropology, College of Social and Applied Human Sciences

The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*. The departmental category of courses recognizes the fact that the disciplines of sociology and sociocultural anthropology have developed in tandem and it is possible to identify large areas of overlap and convergence in the work of practitioners both historically and in the present. Departmental courses include most of the core theory and methods courses as well as many elective courses. They contribute equally to the subject matter of sociology as well as the subject matter of sociocultural anthropology for purposes of the undergraduate programs of study in both disciplines. Please see the listings for all courses required for the Anthropology program. **Note:** the following course may be used towards an anthropology specialization: ISS*2990.

Courses will normally be offered in the semesters designated. Please check with the department for information about additional semester offerings. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work. Please note, a student is allowed a total of 1.00 credits only for reading courses.

Area of Concentration (General Program)

A minimum of 6.00 credits is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
ANTH*2160	[0.50]	Social Anthropology
ANTH*2230	[0.50]	Regional Ethnography
ANTH*3690	[0.50]	History of Anthropological Thought
ANTH*3770	[0.50]	Kinship and Social Organization
SOAN*2120	[0.50]	Introductory Methods

One of:

MUSC*2270	[0.50]	World Music
PHIL*2100	[0.50]	Critical Thinking

1.50 additional credits in ANTH

1.00 additional credits in SOAN

Note: 1.50 credits of these additional credits must be completed at the 3000 level or above.

Major (Honours Program)

A minimum of 9.00 credits is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
ANTH*2160	[0.50]	Social Anthropology
ANTH*2230	[0.50]	Regional Ethnography
ANTH*3690	[0.50]	History of Anthropological Thought
ANTH*3770	[0.50]	Kinship and Social Organization
ANTH*4700	[0.50]	Issues in Contemporary Anthropological Theory
SOAN*2120	[0.50]	Introductory Methods
SOAN*3070	[0.50]	Qualitative and Observational Methods

Two of:

LING*1000	[0.50]	Introduction to Linguistics
MUSC*2270	[0.50]	World Music
PHIL*2100	[0.50]	Critical Thinking

2.00 additional credits in ANTH

2.00 additional credits in SOAN

Note: 1.00 of these additional credits must be completed at the 4000 level.

Note: SOAN*3120 is recommended, especially for students planning to enter graduate programs.

Minor (Honours Program)

A minimum of 6.00 credits is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
ANTH*2160	[0.50]	Social Anthropology
ANTH*2230	[0.50]	Regional Ethnography
ANTH*3690	[0.50]	History of Anthropological Thought
ANTH*3770	[0.50]	Kinship and Social Organization
SOAN*2120	[0.50]	Introductory Methods

One of:

MUSC*2270	[0.50]	World Music
PHIL*2100	[0.50]	Critical Thinking

1.50 additional credits in ANTH

1.00 additional credits in SOAN

Note: 1.50 of these additional credits must be completed at the 3000 level or above.

Applied Mathematics and Statistics (Co-op) (APMS:C)

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter; students entering later than Semester 1 may require more than 8 semesters to complete the program. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits is required to complete this program which includes 5.00 credits in Mathematics, 2.50 credits in Statistics, an additional 2.00 credits in Mathematics or Statistics at the 3000 level, and an additional 2.00 credits in Mathematics or Statistics at the 4000 level, 1.00 credits in Computing and Information Science, 3.00 credits in Arts and Social Sciences courses, and 4.5 credits unrestricted electives.

Semester 1 - Fall

CIS*1500 [0.50] Introduction to Programming
 MATH*1200 [0.50] Calculus I
 1.50 electives from Arts and Social Sciences **

Semester 2 - Winter

CIS*2500 [0.50] Intermediate Programming
 COOP*1100 [0.00] Introduction to Co-operative Education
 MATH*1210 [0.50] Calculus II
 STAT*2040 [0.50] Statistics I
 1.00 electives from Arts and Social Sciences **

Summer Semester

No study semester or work term.

Semester 3 - Fall

MATH*2000 [0.50] Set Theory
 MATH*2160 [0.50] Linear Algebra I
 MATH*2200 [0.50] Advanced Calculus I
 STAT*2050 [0.50] Statistics II
 0.50 electives from Arts and Social Sciences **

Winter Semester

COOP*1000 [0.00] Co-op Work Term I

Semester 4 - Summer

MATH*2170 [0.50] Differential Equations I
 2.00 electives

Fall Semester

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter

MATH*2210 [0.50] Advanced Calculus II
 MATH*2130 [0.50] Numerical Methods
 0.50 credits in Mathematics or Statistics at the 3000 level or above.
 1.00 electives

Summer Semester

COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall

STAT*3100 [0.50] Introductory Mathematical Statistics I
 STAT*3240 [0.50] Applied Regression Analysis
 At least 1.00 credits from:
 MATH*3100 [0.50] Differential Equations II
 MATH*3200 [0.50] Real Analysis
 MATH*3240 [0.50] Operations Research

0.50 electives

Semester 7 - Winter

STAT*3110 [0.50] Introductory Mathematical Statistics II
 1.50 credits in Mathematics or Statistics at the 3000 level or above.
 0.50 electives

Summer Semester

COOP*4000 [0.00] Co-op Work Term IV

Semester 8 - Fall

2.00 credits in Mathematics or Statistics at the 4000 level.
 0.50 electives

** Students are reminded that as soon as possible after entrance to the program, they must meet the BA distribution requirements of 1.50 credits from 2 different schools or departments in the College of Arts and 1.50 credits from 2 of the following departments in the College of Social and Applied Human Sciences and the College of Management and Economics: Economics, Geography, Political Science, Psychology, Sociology and Anthropology.

Art History (ARTH)

School of Fine Art and Music, College of Arts

The School provides for concentrated study in Art History or Studio Arts, or for a more balanced study combining the two disciplines. Both Studio Art and Art History degree programs require some work in both the programs. Many Art History courses are also open to non specialized students.

The Art History program covers historical perspectives on the visual arts, study of the methodologies of art history and critical theory, and consideration of contemporary issues in the practice and display of art. Students pursuing a Major or Minor in Art History are required to take a minimum number of courses in each of three areas of focus in the program: Western Art and Cross-Cultural Perspectives; Visual Arts of the Americas; and Art Theory, Critical Methodology and Museology. The groups of courses that comprise these areas of focus are listed below.

Students majoring in other programs who are also interested in the study of Art History are encouraged to consider the Minors offered in Visual Arts of the Americas, Museum Studies, and Art Theory and Criticism. Specific requirements for the Art History Honours Major and Minor are listed below.

Student Counselling

The students who elect to take a substantial number of courses in Art History with the objective of graduate work are advised to obtain counselling from faculty regarding their choices. It is important to know that graduate studies in Art History will usually require a reading knowledge of at least 2 languages other than English. German, French, Italian and Latin are among the most useful choices. Cognate electives in other disciplines in the College of Arts (such as History) will almost certainly prove an asset.

Art History Core Requirements

All students are required to complete the following core courses [1.50 credits]:

ARTH*1220 [0.50] The Visual Arts Today
 ARTH*1510 [0.50] Art Historical Studies I
 ARTH*1520 [0.50] Art Historical Studies II

Major (Honours Program)

A minimum of 9.00 credits is required, including:

- the Art History core
 - ARTH*1220, ARTH*1510, ARTH*1520,
- 3.00 credits from the Western Art and Cross-Cultural Perspectives including:
 - ARTH*2150 or ARTH*3150
 - ARTH*2540
 - ARTH*2550 or ARTH*2950
 - One of ARTH*2280, ARTH*2290, ARTH*2580, ARTH*2600
 - At least 1.00 credits of the 3000-level thematic courses: ARTH*3100, ARTH*3200, ARTH*3310, ARTH*3320, ARTH*3330, ARTH*3340, ARTH*3520
- 1.50 credits from the Arts of the Americas area of focus: ARTH*2050, ARTH*2060, ARTH*2070, ARTH*2490, ARTH*3010, ARTH*3050, ARTH*3060
- 1.00 credits from the Art Theory, Critical Methodology and Museology area of focus: ARTH*2120, ARTH*2480, ARTH*3210, ARTH*3220, ARTH*3780
- At least 2.00 credits from 4000-level seminar courses: ARTH*4310, ARTH*4320, ARTH*4330, ARTH*4340, ARTH*4350, ARTH*4620

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

- The Art History core (ARTH*1220, ARTH*1510, ARTH*1520)
- 3.50 additional credits in Art History including 0.50 credits in each of the three areas of focus and at least 2.00 credits at the 3000 or 4000 level.

Areas of Focus

Western Art and Cross-Cultural Perspectives

ARTH*2150 [0.50] Art and Archaeology of Greece
 ARTH*2280 [0.50] Modern Architecture
 ARTH*2290 [0.50] History of Photographic Media
 ARTH*2540 [0.50] Medieval Art
 ARTH*2550 [0.50] The Italian Renaissance
 ARTH*2580 [0.50] Late Modern Art: 1900-1950
 ARTH*2600 [0.50] Early Modern Art to 1900
 ARTH*2950 [0.50] Baroque Art
 ARTH*3100 [0.50] Perspectives: Structure & Space in Western Art
 ARTH*3150 [0.50] Space: Roman Art and Urbanism
 ARTH*3200 [0.50] Colour: Practice & Meanings in Western Art
 ARTH*3310 [0.50] Image: Pictures & Their Power
 ARTH*3320 [0.50] Lives: Aspects of Western Art
 ARTH*3330 [0.50] Display: Visual Culture in Western Europe
 ARTH*3340 [0.50] The Art Object & Material Culture
 ARTH*3520 [0.50] Idea: Art Since 1950
 ARTH*4330 [1.00] Topics in Art & Visual Culture III
 ARTH*4340 [1.00] Topics in Art & Visual Culture IV

Arts of the Americas

ARTH*2050	[0.50]	Modern Latin American Art
ARTH*2060	[0.50]	Aboriginal Arts in the Americas
ARTH*2070	[0.50]	Art of the USA
ARTH*2490	[0.50]	History of Canadian Art
ARTH*3010	[0.50]	Contemporary Canadian Art
ARTH*3050	[0.50]	Pre-Columbian Art
ARTH*3060	[0.50]	Public Art
ARTH*4310	[1.00]	Topics in Art & Visual Culture I
ARTH*4320	[1.00]	Topics in Art & Visual Culture II

Art Theory, Critical Methodology and Museology

ARTH*2120	[0.50]	Introduction to Museology
ARTH*2480	[0.50]	Introduction to Art Theory and Criticism
ARTH*3210	[0.50]	Critical Issues in Art History
ARTH*3220	[0.50]	Nationalism & Identity in Art
ARTH*3780	[0.50]	Gender and Art
ARTH*4350	[1.00]	Topics in Art & Visual Culture V
ARTH*4620	[0.50]	Museum Studies

Note: Details of advanced standing for transfer students from the Ontario College of Art can be found in the section on Admission Information.

Art Theory and Criticism (ATC)**School of Fine Art and Music**

The Minor program in Art Theory and Criticism offers students the opportunity to engage critically with the most significant interpretative methods art historians and critics use to analyze artwork. Courses will provide an overview of important debates in the field and of their contexts, as well as informed discussions of the issues that are raised when textuality and visuality come together.

This program of study is designed as a complement to a significant number of Major specializations, and is suitable for any student wishing to broaden their knowledge beyond their Major area of study. Students wishing to combine this Minor with a Major in Art History are advised that the selection of their required courses should begin early in their degree, and that they should obtain counselling from faculty to ensure they can achieve the correct distribution.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

- a. ARTH*1220 [0.50] The Visual Arts Today
- ARTH*1510 [0.50] Art Historical Studies I
- ARTH*1520 [0.50] Art Historical Studies II
- b. 3.50 additional credits in Art History as follows:
 - ARTH*2480 [0.50] Introduction to Art Theory and Criticism
 - ARTH*3210 [0.50] Critical Issues in Art History
 - ARTH*3220 [0.50] Nationalism & Identity in Art
 - ARTH*3520 [0.50] Idea: Art Since 1950
 - ARTH*3780 [0.50] Gender and Art
 - ARTH*4350 [1.00] Topics in Art & Visual Culture V

Business Administration (BADM)**Department of Economics and Finance, College of Management and Economics**

Interdisciplinary study in Business Administration is offered as a minor in the honours program. Students in this program will be counselled by the Department of Economics and Finance. It is possible for students to pursue a more intensive program in the area of business administration and economics; see the heading Economics (ECON) or Mathematical Economics (MAEC) in the B.A. degree and the heading Management Economics (MEF) in the B.Comm. degree.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

ACCT*2220	[0.50]	Financial Accounting
ACCT*2230	[0.50]	Management Accounting
ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2560	[0.50]	Theory of Finance
MCS*1000	[0.50]	Introductory Marketing
MCS*3040	[0.50]	Business and Consumer Law

One of:

BUS*2090	[0.50]	Individuals and Groups in Organizations
FARE*3310	[0.50]	Operations Management

Classical Studies (CLAS)**School of Languages and Literatures, College of Arts**

The program in Classical Studies is intended particularly for students interested in Greek and Roman culture, society and history.

Core Requirements

- a. CLAS*1000, plus EITHER (GREK*1100, GREK*1110, GREK*2020) OR (LAT*1100, LAT*1110, LAT*2000)
- b. one of CLAS*2000, CLAS*2150, CLAS*2350, CLAS*3100
- c. one of CLAS*3000, CLAS*3010, CLAS*3020
- d. one of CLAS*3030, CLAS*3040
- e. one of CLAS*3150, HIST*2850, PHIL*2140

Major (Honours Program)

A minimum of 8.00 credits is required, including:

- a. the Classical Studies Core
- b. CLAS*4000, CLAS*4150, CLAS*4400
- c. 2.50 additional credits in Classics, 1.00 of which may be taken from the following as part of the program:

ENGL*1410	[0.50]	Major Writers
HIST*2200	[0.50]	The Medieval World
LING*1000	[0.50]	Introduction to Linguistics

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

- a. the Classical Studies Core
- b. two of CLAS*4000, CLAS*4150, CLAS*4400

Computing and Information Science (CIS)**Department of Computing and Information Science, College of Physical and Engineering Science**

A knowledge of Computing is a complement to most areas of study. The Minor in Computing and Information Science is directed towards students who wish to supplement their studies in another area with some experience in Computing. Students interested in pursuing a Major in Computing can do so through the Bachelor of Computing Degree Program.

Minor (Honours Program)

A minimum of 5.25 credits is required, including:

CIS*1500	[0.50]	Introduction to Programming
CIS*1910	[0.50]	Discrete Structures in Computing I
CIS*2430	[0.50]	Object Oriented Programming
CIS*2500	[0.50]	Intermediate Programming
CIS*2520	[0.50]	Data Structures
CIS*2750	[0.75]	Software Systems Development and Integration
CIS*2910	[0.50]	Discrete Structures in Computing II
CIS*3530	[0.50]	Data Base Systems and Concepts

1.00 additional credits from CIS or STAT courses at the 2000 level or above

Criminal Justice and Public Policy (CJPP)**Department of Sociology and Anthropology, and the Department of Political Science, College of Social and Applied Human Sciences**

Criminal Justice and Public Policy is offered as a minor in the honours program and as a major in the honours program. It is designed to provide students seeking a career in the criminal justice system, or planning to pursue an advanced degree with a knowledge base that will enable them to pursue their career objectives. The program offers a unique blend of sociological courses dealing with the criminal justice system as well as courses in Political Science dealing with public policy formation and implementation. It also provides students with the conceptual and methodological tools needed for further study.

Students who are not admitted directly into the CJPP major and subsequently wish to declare the specialization must apply directly to the department. In order to be eligible, applicants must have a cumulative average of 70% or better in the following foundation courses:

POLS*1400	[0.50]	Issues in Canadian Politics
POLS*2250	[0.50]	Public Administration and Governance
POLS*2300	[0.50]	Canadian Government and Politics
SOAN*2120	[0.50]	Introductory Methods
SOC*1500	[0.50]	Crime and Criminal Justice
SOC*2700	[0.50]	Criminological Theory

Note: The requirement for an average of 70% or better applies only to students admitted to the University of Guelph after 30 April 2002.

Students wishing to declare the CJPP minor must also meet the above requirement.

Students from other institutions who transfer to the University of Guelph and wish to declare the CJPP major or minor must also meet the above requirement. If an external transfer student is granted credit for one or more of the foundation courses listed above, then he or she must attain a cumulative average of 70% or better in the remaining required CJPP foundation courses.

Note: There is no CJPP Area of Concentration in the General Program as of Fall 2002.

Major (Honours Program)

A minimum of 9.00 credits is required, including:

PHIL*1010	[0.50]	Introductory Philosophy: Social and Political Issues
POLS*1400	[0.50]	Issues in Canadian Politics
POLS*2250	[0.50]	Public Administration and Governance
POLS*2300	[0.50]	Canadian Government and Politics
SOAN*2120	[0.50]	Introductory Methods
SOC*1500	[0.50]	Crime and Criminal Justice
SOC*2700	[0.50]	Criminological Theory

One of:

POLS*3650	[0.50]	Research Methods II: Quantitative Methods
SOAN*3120	[0.50]	Quantitative Methods

Three of:

SOC*2070	[0.50]	Social Deviance
SOC*2760	[0.50]	Homicide
SOC*3490	[0.50]	Law and Society
SOC*3710	[0.50]	Young Offenders
SOC*3730	[0.50]	Courts and Society
SOC*3740	[0.50]	Corrections and Penology
SOC*3750	[0.50]	Police in Society

Three of:

POLS*3110	[0.50]	Politics of Ontario
POLS*3130	[0.50]	Law, Politics and Judicial Process
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3250	[0.50]	Public Policy: Challenges and Prospects
POLS*3300	[0.50]	Governing Criminal Justice
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics
POLS*3670	[0.50]	Comparative Public Policy and Administration

One of:

HIST*3130	[0.50]	Popular Culture and Punishment, 1700-1900
PHIL*3040	[0.50]	Philosophy of Law
PHIL*3230	[0.50]	Issues in Social and Political Philosophy
PSYC*3020	[0.50]	Psychology of Law

Three of:

POLS*4050	[0.50]	Advanced Topics in Law and Politics
POLS*4100	[0.50]	Women, Justice and Public Policy
POLS*4160	[0.50]	Multi-Level Governance in Canada
POLS*4250	[0.50]	Topics in Public Management
POLS*4260	[0.50]	Topics in Public Policy
POLS*4740	[0.50]	Advanced Topics in Rights and Liberties
SOC*4010	[0.50]	Violence and Society
SOC*4030	[0.50]	Advanced Topics in Criminology
SOC*4200	[0.50]	Advanced Topics in Criminal Justice
SOC*4900	[0.50]	Honours Sociology Thesis I
SOC*4910	[0.50]	Honours Sociology Thesis II

Minor (Honours Program)

A minimum of 6.00 credits is required, including:

PHIL*1010	[0.50]	Introductory Philosophy: Social and Political Issues
POLS*1400	[0.50]	Issues in Canadian Politics
POLS*2250	[0.50]	Public Administration and Governance
POLS*2300	[0.50]	Canadian Government and Politics
SOAN*2120	[0.50]	Introductory Methods
SOC*1500	[0.50]	Crime and Criminal Justice
SOC*2700	[0.50]	Criminological Theory

Two of:

SOC*2070	[0.50]	Social Deviance
SOC*2760	[0.50]	Homicide
SOC*3490	[0.50]	Law and Society
SOC*3710	[0.50]	Young Offenders
SOC*3730	[0.50]	Courts and Society
SOC*3740	[0.50]	Corrections and Penology
SOC*3750	[0.50]	Police in Society

Two of:

POLS*3110	[0.50]	Politics of Ontario
POLS*3130	[0.50]	Law, Politics and Judicial Process
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3300	[0.50]	Governing Criminal Justice
POLS*3250	[0.50]	Public Policy: Challenges and Prospects
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics
POLS*3670	[0.50]	Comparative Public Policy and Administration

One of:

HIST*3130	[0.50]	Popular Culture and Punishment, 1700-1900
PHIL*3040	[0.50]	Philosophy of Law
PHIL*3230	[0.50]	Issues in Social and Political Philosophy
PSYC*3020	[0.50]	Psychology of Law

Economics (ECON)

Department of Economics and Finance, College of Management and Economics

The Department of Economics and Finance offers courses in economic theory, applied economics and quantitative methods. Students may take courses leading to a B.A. in the honours. It is possible to combine Economics with various other disciplines such as mathematics and statistics, business administration, political science, geography and history. Students are urged to consult the department's program planning guide and the department's advisors for detailed information about courses and programs and about the course of study most appropriate as preparation for graduate work in economics or business administration, for professional degrees such as the Bachelor's degree in Law, and for careers in business and government.

Core Requirements

ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2740	[0.50]	Economic Statistics

One of:

MATH*1030	[0.50]	Business Mathematics
MATH*1080	[0.50]	Elements of Calculus I
MATH*1200	[0.50]	Calculus I

Major (Honours Program)

A minimum of 9.50 credits in Economics is required, including:

The Economics core requirements

ECON*2770	[0.50]	Introductory Mathematical Economics
ECON*3710	[0.50]	Advanced Microeconomics
ECON*3740	[0.50]	Introduction to Econometrics
ECON*3810	[0.50]	Advanced Macroeconomics
ECON*4710	[0.50]	Advanced Topics in Microeconomics
ECON*4810	[0.50]	Advanced Topics in Macroeconomics

One of:

ECON*3100	[0.50]	Game Theory
ECON*4700	[0.50]	Advanced Mathematical Economics

One of:

ECON*2720	[0.50]	Business History
ECON*3550	[0.50]	North American Economic History
ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914
ECON*4720	[0.50]	Topics in Economic History

2.50 other credits in Economics at the 3000 or 4000 level, at least 1.50 of which must be at the 4000 level

Note: Students contemplating graduate studies in Economics should take ECON*4640, Applied Econometrics and ECON*4840, Applied Econometrics II.

Minor (Honours Program)

A minimum of 5.50 credits in Economics is required, including:

- the Economics core
- 2.50 other credits in Economics at the 3000 or 4000 level

Notes:

- ECON*3740 is recommended.
- Students wishing to pursue a more structured Economics minor should take ECON*3710 as well as ECON*3740.
- Only one of ECON*2200 or ECON*3200 may be counted towards the minor. ECON*4800 may not be counted at the 4000 level for purposes of satisfying the minimum 4000 level credit requirements in the B.A. Honours Economics major. Only one of ECON*4900 or ECON*4910 may count in the B.A. program towards the minimum 4000 level requirement.

Economics (Co-op) (ECON:C)

Department of Economics and Finance, College of Management and Economics

The Economics Co-op program provides an integrated academic/work experience for students with co-operating employer organizations. Students in the program complete 4-5 work terms while fulfilling the requirements of their honours Economics program.

All co-op students must complete the Economics core plus an introductory computer science course (CIS*), ECON*2770 and ECON*3740 in their first 4 semesters. Admission in the co-op program is limited to students of high academic standing and will be considered only at semester 1 entry or at the end of semester 2. The first 2 work terms normally follow completion of the first 4 semesters of academic study. Students will only be permitted to take these work terms if they are eligible to continue in the Honours Economics program, have completed the required courses and are maintaining a satisfactory standing in their Economics program. The 3rd and 4th work terms will normally follow the 6th academic semester. For further information on the Economics Co-op program students are urged to consult the department's Program Guide and Co-operative Education Programs in Section X-degree Programs in this calendar.

Students should review the Economics section in the schedule of studies for additional program information.

Major (Honours Program)**Semester 1**

ECON*1050 [0.50] Introductory Microeconomics

One of:

Math*1000	0.50	Introductory Calculus
MATH*1030	[0.50]	Business Mathematics
MATH*1080	[0.50]	Elements of Calculus I
MATH*1200	[0.50]	Calculus I

1.50 electives

Semester 2 (Winter)

ECON*1100 [0.50] Introductory Macroeconomics

One computer science course

1.50 electives

Summer Semester

Optional -- at the discretion of the student.

Semester 3 (Fall)

COOP*1100 [0.00] Introduction to Co-operative Education

ECON*2310 [0.50] Intermediate Microeconomics

ECON*2410 [0.50] Intermediate Macroeconomics

ECON*2740 [0.50] Economic Statistics

ECON*2770 [0.50] Introductory Mathematical Economics

0.50 electives

Semester 4 (Winter)

ECON*3740 [0.50] Introduction to Econometrics

One economic history course*

1.50 electives

Summer Semester

COOP*1000 [0.00] Co-op Work Term I

Fall Semester

COOP*2000 [0.00] Co-op Work Term II

Semester 5 (Winter)

ECON*3810 [0.50] Advanced Macroeconomics

One of:

ECON*3100	[0.50]	Game Theory
ECON*4700	[0.50]	Advanced Mathematical Economics

One 3000 level economics course

1.00 electives

Summer Semester

COOP*3000 [0.00] Co-op Work Term III

Semester 6 (Fall)

ECON*3710 [0.50] Advanced Microeconomics

One 4000 level Economics course (ECON*4640 is recommended)

1.50 electives

Winter Semester

COOP*4000 [0.00] Co-op Work Term IV

Summer Semester

COOP*5000 [0.00] Co-op Work Term V

Semester 7 (Fall)

ECON*4710 [0.50] Advanced Topics in Microeconomics

One 4000 level Economics course

1.00 electives

0.50 restricted electives

Semester 8 (Winter)

ECON*4810 [0.50] Advanced Topics in Macroeconomics

0.50 credits in Economics at the 4000 level

1.50 electives

*the economic history course may be taken in any semester

English (ENGL)**School of English and Theatre Studies, College of Arts**

The School of English and Theatre Studies offers courses in the B.A. Program in English that focus on the study of literature and related texts across a broad range of theoretical, historical, and geographical sites. The School also welcomes non-majors into its courses at the 1000, 2000, and 3000 levels, suitable to other majors within the College of Arts and beyond. Certain courses in Theatre Studies (THST) and in Literature in Translation (CLAS, GERM, HUMN, SPAN) may be counted towards a degree in English. Consult the School of English and Theatre Studies for details.

First-year students registered in or considering one of the programs in English should register for ENGL*1080 in the first semester and ENGL*2080 in the second semester.

Area of Concentration (General Program)

A minimum of 5.50 English credits is required in the English core and the English electives. English elective courses must be chosen to fulfill the Distribution Requirements for the Area of Concentration.

English core - 2.00 credits as follows:

- ENGL*1080, ENGL*2080, ENGL*2120
- one of ENGL*2130, ENGL*3940, ENGL*3960

English electives - 3.50 credits to include:

- 3.00 credits from 3000 level lecture courses
- 0.50 credits from any other lecture or seminar course
- Distribution requirements as listed below.

Distribution Requirements for the Area of Concentration:

The electives must be chosen to ensure that 0.50 credits are completed in each of the following three fields:

- Medieval and Early Modern Literature
- 18th- and 19th-century Literature
- 20th- and 21st-century Literature

Of these 1.50 credits, at least 0.50 must be in Canadian Literature.

Note: Please visit the School of English and Theatre Studies website: <http://www.uoguelph.ca/sets/> for a list of courses that fulfill these requirements.

Major (Honours Program)

A minimum of 8.50 English credits is required in the English core and the English electives. English elective courses must be chosen to fulfill the Distribution Requirements for the Major.

English core - 3.00 credits as follows:

- ENGL*1080, ENGL*2080
- ENGL*2120, ENGL*2130, ENGL*3940, ENGL*3960

English electives - 5.50 credits to include:

- 2.50 credits from 3000 level lecture courses
- 2.00 credits from 4000 level courses
- 1.00 credits from any other lecture or seminar courses
- Distribution requirements as listed below

Distribution Requirements for the Major:

The electives must be chosen to ensure that 1.00 credits are completed in each of the following fields:

- Medieval and Early Modern Literature
- 18th- and 19th-century Literature
- 20th- and 21st-century Literature

Of these 3.00 credits, at least 0.50 credits must be in Canadian Literature.

A maximum of 2.00 credits at the 4000 level may be counted towards a major in English.

Note: Please visit the School of English and Theatre Studies website: <http://www.arts.uoguelph.ca/sets/> for a list of courses that fulfill these requirements.

Honours students interested in a more concentrated program or contemplating graduate work in English are strongly advised to:

- attain a good reading knowledge of another language, such as French
- take ENGL*3380 (Studies in the History of Literary Production), ENGL*3690 (History of Literary Criticism), ENGL*4890 (Contemporary Literary Theory)

The M.A. program in English at Guelph gives preference to qualified applicants with a broad experience in literary and cultural studies and related disciplines.

Minor (Honours Program)

The program of study and requirements are the same as for the Area of Concentration in the General Program.

Environmental Governance (EGOV)**Interdisciplinary Program**

Environmental governance refers to the processes through which societies make decisions that affect the environment. Governments have long been dominant players in this context. However, in Canada and around the world, the ability of governments alone to address environmental problems is being called into question. As a result, contemporary environmental governance increasingly involves citizens, non-government organizations, and businesses.

The interdisciplinary Major in Environmental Governance introduces students to the challenges of environmental governance. Through completing courses from the disciplines of geography, political science, agricultural economics, and economics, students will receive: a solid foundation in the processes and mechanisms of environmental governance in Canada and elsewhere; an understanding of geographical, political, and economic factors that shape governance in Canada and around the world; and exposure to innovative approaches to environmental governance that address persistent and emerging societal concerns. Students completing the major will have the skills and experiences needed to participate effectively in environmental governance in a variety of settings. Hence, they will find careers in the public sector, in environmental non-government organizations, and, increasingly, in the private sector.

Completion of required courses, and careful selection from among optional courses, will facilitate students completing a minor in Geography, Political Science, or Economics. Minors in other programs also may complement the Major in Environmental Governance.

Major (Honours Program)

A minimum of 11.50 credits, consisting of 11.00 credits from the courses specified below, plus 0.50 credits from other 4000 level courses in Geography; Political Science; Food, Agricultural and Resource Economics (Agricultural Economics); or Economics:

ECON*1050	[0.50]	Introductory Microeconomics
EDRD*2650	[0.50]	Introduction to Planning and Environmental Law
GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*1350	[0.50]	Earth: Hazards and Global Change
GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOG*2210	[0.50]	Environment and Resources
GEOG*3020	[0.50]	Global Environmental Change
GEOG*3210	[0.50]	Management of the Biophysical Environment
GEOG*4210	[0.50]	Environmental Governance
GEOG*4220	[0.50]	Local Environmental Management
GEOG*4230	[0.50]	Environmental Impact Assessment
POLS*1400	[0.50]	Issues in Canadian Politics
POLS*2250	[0.50]	Public Administration and Governance
POLS*2300	[0.50]	Canadian Government and Politics
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3370	[0.50]	Environmental Politics and Governance

One of:

GEOG*2030	[0.50]	Political Ecology & Geography
GEOG*2230	[0.50]	Economic Geography

One of:

ECON*2100	[0.50]	Economic Growth and Environmental Quality
FARE*2700	[0.50]	Survey of Natural Resource Economics

One of:

HIST*2250	[0.50]	Environment and History
PHIL*2070	[0.50]	Philosophy of the Environment
SOC*3380	[0.50]	Society and Nature

One of:

ECON*2740	[0.50]	Economic Statistics
GEOG*2460	[0.50]	Analysis in Geography
STAT*2040	[0.50]	Statistics I

One of:

FARE*3170	[0.50]	Cost-Benefit Analysis
POLS*3250	[0.50]	Public Policy: Challenges and Prospects
POLS*3270	[0.50]	Local Government in Ontario
POLS*3470	[0.50]	Business-Government Relations in Canada
POLS*3790	[0.50]	The Political Economy of International Relations

One of:

FARE*4290	[0.50]	Land Economics
FARE*4310	[0.50]	Resource Economics

At least 0.50 additional credits at the 4000 level from Geography; Political Science; Food, Agricultural and Resource Economics (FARE); or Economics. Students are advised to contact an Environmental Governance Faculty Advisor for a list of recommended 4000 level courses.

* Note: Courses marked with an asterisk* may require the completion of additional prerequisites not included in the requirements for the Environmental Governance major. Students should consult the most recent Undergraduate Calendar (Chapter XII – Course Descriptions) for specific prerequisites.

Ethics in Life Sciences (ELS)

Department of Philosophy, College of Arts

This program draws together critical and foundational analysis of the sciences (scientific method and concepts) with the philosophical disciplines of pure and applied ethics. The program will be of particular interest to students seeking to become skilled at interpreting and discussing concrete scientific developments and at analyzing and evaluating ethical issues in the life sciences.

Minor (Honours Program)

A minimum of 5.00 credits in Philosophy is required, including:

- PHIL*2120, PHIL*2180, PHIL*3450

- At least 2 of the following courses (minimum 1.00 credits): PHIL*2070, PHIL*2030, PHIL*3170, PHIL*3240, PHIL*4040
- At least 2 of the following courses in Ethics (minimum 1.00 credits): PHIL*2060, PHIL*2600, PHIL*3040, PHIL*3230, PHIL*4060, PHIL*4230, PHIL*4310, PHIL*4340
- At least 2 of the following courses in Metaphysics/Epistemology (minimum 1.00 credits): PHIL*2160, PHIL*2170, PHIL*2250, PHIL*2370, PHIL*3130, PHIL*3180, PHIL*3190, PHIL*4360, PHIL*4370, PSYC*3280
- 0.50 additional credits in Philosophy

Students must have at least 2.00 credits in Philosophy at the 3000 level or above.

NOTE: PSYC*3280 counts as a Philosophy credit.

European Culture and Civilization (ECC)

The minor in European Culture and Civilization is designed for students interested in the interdisciplinary study of European culture and history. It offers a combination of languages, history of European culture, literature, the arts, philosophy, history and political science.

Note: the minor is not open to European Studies majors.

Minor (Honours Program)

Note: some of the courses below (the language courses, some 3000 and 4000 level courses in lists A, B, C, D) have prerequisites not included in the minor.

A minimum of 5.50 credits, at least 1.00 of which must be at the 3000 level or above, is required, including:

- | | | |
|-----------|--------|--|
| EURO*1200 | [0.50] | European Culture from the Mid 18th to the Mid 19th Century |
| EURO*2200 | [0.50] | European Culture from the Mid 19th Century to the 1920's |
| EURO*2300 | [0.50] | European Culture since 1920 |
- 2.00 credits in one language, at second or third year level, chosen from the following list:

FREN*2020	[0.50]	France: Literature and Society
FREN*2030	[0.50]	French Language II
FREN*2520	[0.50]	French Composition I
FREN*2540	[0.50]	Spoken French: Theory and Practice
FREN*3520	[0.50]	French Composition II
FREN*3530	[0.50]	Business French
OR		
GERM*2400	[0.50]	Contemporary Germany
GERM*2490	[0.50]	Intermediate German I
GERM*2500	[0.50]	Intermediate German II
GERM*2560	[0.50]	Themes in German Literature/Culture
GERM*3500	[0.50]	Advanced German I
One of:		
GERM*2590	[0.50]	Classics of German Literature
GERM*3530	[0.50]	Advanced German
OR		
ITAL*2090	[1.00]	Intermediate Italian
ITAL*2100	[0.50]	Renaissance Lovers and Fools
ITAL*3060	[0.50]	Advanced Italian
ITAL*3150	[0.50]	Medieval Italian Literature
ITAL*3200	[0.50]	Novels of Resistance
ITAL*3950	[0.50]	Topics in Italian Literature
OR		
HISP*2000	[0.50]	Intermediate Spanish I
HISP*2010	[0.50]	Intermediate Spanish II
HISP*2040	[0.50]	Culture of Spain
HISP*2990	[0.50]	Hispanic Literary Studies
HISP*3500	[0.50]	Advanced Spanish I
HISP*3530	[0.50]	Business Spanish
- 2.00 credits; 0.50 credits from each of Groups A, B, C and D from the following list:

Group A

CLAS*1000	[0.50]	Introduction to Classical Culture
CLAS*2000	[0.50]	Classical Mythology
CLAS*2350	[0.50]	The Classical Tradition
EURO*3150	[0.50]	Topics in European Film
FREN*3000	[0.50]	Romanticism & Realism in France
FREN*3010	[0.50]	Twentieth-Century French Novel (taught in French)
FREN*3080	[0.50]	Pre-Revolution French Literature
HIST*2850	[0.50]	Ancient Greece and Rome
HUMN*2100	[0.50]	Renaissance Lovers and Fools
HUMN*3020	[0.50]	Myth and Fairy Tales in Germany
HUMN*3470	[0.50]	Holocaust & WWII in German Lit. & Film

Group B

HIST*1010	[0.50]	The Early Modern World
HIST*2200	[0.50]	The Medieval World

HIST*2510	[0.50]	Modern Europe Since 1789
HIST*2820	[0.50]	Modern France Since 1750
GERM*3090	[0.50]	Nationalism and Internationalism in Europe 1914-1957
HIST*3350	[0.50]	Modern Germany
HIST*3540	[0.50]	World War II
HIST*3570	[0.50]	Women in Modern Europe
HIST*3750	[0.50]	The Reformation
HIST*3820	[0.50]	Early Modern France
HIST*4090	[1.00]	Modern European History
HIST*4470	[0.50]	Special History Project Seminar I
HIST*4580	[1.00]	The French Revolution

Group C

ARTH*1510	[0.50]	Art Historical Studies I
ARTH*1520	[0.50]	Art Historical Studies II
ARTH*2550	[0.50]	The Italian Renaissance
ARTH*2580	[0.50]	Late Modern Art: 1900-1950
ARTH*2600	[0.50]	Early Modern Art to 1900
ARTH*3100	[0.50]	Perspectives: Structure & Space in Western Art
ARTH*3320	[0.50]	Lives: Aspects of Western Art
ARTH*3330	[0.50]	Display: Visual Culture in Western Europe
ARTH*3340	[0.50]	The Art Object & Material Culture
MUSC*1060	[0.50]	"Classical" Music: Context and Codes
MUSC*2010	[0.50]	The Musical Avant-Garde
MUSC*2280	[0.50]	Masterworks of Music

Note: other music history courses may be counted if students with knowledge of music are granted waivers by instructor. The substitution(s) must also be approved by the ESP coordinator.

Group D

PHIL*2140	[0.50]	History of Greek and Roman Philosophy
PHIL*2160	[0.50]	Modern European Philosophy to Hume
PHIL*3060	[0.50]	Medieval Philosophy
PHIL*3080	[0.50]	History of Modern European Philosophy from Kant
PHIL*3200	[0.50]	Contemporary European Philosophy
POLS*2000	[0.50]	Political Theory
POLS*2100	[0.50]	Comparative Politics
POLS*2200	[0.50]	International Relations
POLS*3450	[0.50]	European Governments and Politics
POLS*3460	[0.50]	Russia and Eastern Europe

European Studies (EURS)**Interdisciplinary Program**

The European Studies program is designed for students who seek a career in International Relations - especially in International Business and Administration - between Canada and Europe. It offers a combination of languages, specially designed courses in European thought, letters and history and specialization in either European Business or European Culture and Civilization

Successful completion of the European Studies major requires proficiency in one of the following languages (French, German, Italian or Spanish). In order to demonstrate language proficiency, students have two options: they may study for a year at a European University, in the country where their chosen core language is spoken, or they may write a final research paper in the chosen core language within a required fourth year European Studies course (see EURO*4740). It is highly recommended that students spend their third year studying at a European university, in the country where their chosen core language is spoken. The benefits of such an experience are considerable, both academically and personally. One specific academic outcome of a successful year abroad will be recognition that the student has fulfilled the program's core language requirement. For students who have spent one year studying at a European university in a country where their chosen core language is spoken, a course taken in that year involving a major academic paper or exam in the core language will, upon approval of the Co-ordinator of European Studies, be substituted for EURO*4740. See the Coordinator for the European Studies program for more information. See also the course description for EURO*4740.

Major (Honours Program)

A minimum of 12.50 credits is required, including:

- the three components of the European Studies core (7.50 credits)
- 5.00 credits in either the European Culture and Civilization or the European Business Studies area of emphasis

Core Requirements

- | | | |
|-----------|--------|--|
| EURO*1050 | [0.50] | The Emergence of a United Europe |
| EURO*1200 | [0.50] | European Culture from the Mid 18th to the Mid 19th Century |
| EURO*2200 | [0.50] | European Culture from the Mid 19th Century to the 1920's |
| EURO*2300 | [0.50] | European Culture since 1920 |
| EURO*4740 | [0.50] | Research Project in European Studies |

Note: in order to demonstrate language proficiency, students must write a research paper (EURO*4740) in their core language unless they have spent one year studying at a European university, in the country where their chosen core language is spoken. Where that is the case, a course taken in that year involving a major academic paper of exam in the core language will, upon approval of the Co-ordinator for European Studies, EURO*4740.

2. 3.00 credits in one language:

FREN*2020	[0.50]	France: Literature and Society
FREN*2030	[0.50]	French Language II
FREN*2520	[0.50]	French Composition I
FREN*2540	[0.50]	Spoken French: Theory and Practice
FREN*3520	[0.50]	French Composition II
FREN*3530	[0.50]	Business French

OR

GERM*2050	[0.50]	Introduction to Literature
GERM*2400	[0.50]	Contemporary Germany
GERM*2490	[0.50]	Intermediate German I
GERM*2500	[0.50]	Intermediate German II
GERM*3500	[0.50]	Advanced German I

One of:

GERM*2590	[0.50]	Classics of German Literature
GERM*3510	[0.50]	Advanced German II

OR

ITAL*2090	[1.00]	Intermediate Italian
ITAL*2100	[0.50]	Renaissance Lovers and Fools
ITAL*3060	[0.50]	Advanced Italian
ITAL*3150	[0.50]	Medieval Italian Literature
ITAL*3200	[0.50]	Novels of Resistance

OR

HISP*2000	[0.50]	Intermediate Spanish I
HISP*2010	[0.50]	Intermediate Spanish II
HISP*2040	[0.50]	Culture of Spain
HISP*2990	[0.50]	Hispanic Literary Studies
HISP*3500	[0.50]	Advanced Spanish I
HISP*3530	[0.50]	Business Spanish
BUS*2090	[0.50]	Individuals and Groups in Organizations
CLAS*1000	[0.50]	Introduction to Classical Culture
HIST*2510	[0.50]	Modern Europe Since 1789
POLS*3450	[0.50]	European Governments and Politics

Areas of Emphasis**European Business**

Required courses:

ACCT*2220	[0.50]	Financial Accounting
ACCT*2230	[0.50]	Management Accounting
BUS*3320	[0.50]	Financial Management
ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
MGMT*4260	[0.50]	International Business

2.00 credits chosen from:

BUS*3000	[0.50]	Human Resources Management
BUS*4250	[0.50]	Business Policy
ECON*2200	[0.50]	Industrial Relations
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*3560	[0.50]	Theory of Finance
ECON*3660	[0.50]	Economics of Equity Markets
ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914
FARE*3310	[0.50]	Operations Management
FARE*4370	[0.50]	Food & Agri Marketing Management
HTM*1000	[0.50]	Introduction to Hospitality and Tourism Management
HTM*2050	[0.50]	Dimensions of Tourism
HTM*2120	[0.50]	Hospitality and Tourism Marketing I
HTM*3160	[0.50]	Destination Management and Marketing
HTM*4170	[0.50]	International Tourism
MCS*1000	[0.50]	Introductory Marketing
MCS*2100	[0.50]	Personal Financial Management
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
MCS*3000	[0.50]	Advanced Marketing
MCS*3040	[0.50]	Business and Consumer Law
STAT*2060	[0.50]	Statistics for Business Decisions

European Culture and Civilization

Students must take 5.00 credits including at least 0.50 credits from each of the following four groups. The remaining 3.00 credits may be chosen from any of the courses in the four groups.

Group A

CLAS*2000	[0.50]	Classical Mythology
CLAS*2350	[0.50]	The Classical Tradition
EURO*3150	[0.50]	Topics in European Film
FREN*2500	[0.50]	French Translation I (taught in French)
FREN*3000	[0.50]	Romanticism & Realism in France
FREN*3010	[0.50]	Twentieth-Century French Novel (taught in French)
FREN*3070	[0.50]	Enlightenment and Crisis
HIST*2850	[0.50]	Ancient Greece and Rome
HUMN*2100	[0.50]	Renaissance Lovers and Fools
HUMN*3020	[0.50]	Myth and Fairy Tales in Germany
HUMN*3470	[0.50]	Holocaust & WWII in German Lit. & Film

Group B

HIST*1010	[0.50]	The Early Modern World
HIST*2200	[0.50]	The Medieval World
HIST*2820	[0.50]	Modern France Since 1750
HIST*3090	[0.50]	Nationalism and Internationalism in Europe 1914-1957
HIST*3350	[0.50]	Modern Germany
HIST*3540	[0.50]	World War II
HIST*3570	[0.50]	Women in Modern Europe
HIST*3750	[0.50]	The Reformation
HIST*3820	[0.50]	Early Modern France
HIST*4090	[1.00]	Modern European History
HIST*4470	[0.50]	Special History Project Seminar I
HIST*4580	[1.00]	The French Revolution

Group C

ARTH*1510	[0.50]	Art Historical Studies I
ARTH*1520	[0.50]	Art Historical Studies II
ARTH*2550	[0.50]	The Italian Renaissance
ARTH*2580	[0.50]	Late Modern Art: 1900-1950
ARTH*2600	[0.50]	Early Modern Art to 1900
ARTH*3100	[0.50]	Perspectives: Structure & Space in Western Art
ARTH*3320	[0.50]	Lives: Aspects of Western Art
ARTH*3330	[0.50]	Display: Visual Culture in Western Europe
ARTH*3340	[0.50]	The Art Object & Material Culture
MUSC*1060	[0.50]	"Classical" Music: Context and Codes
MUSC*2010	[0.50]	The Musical Avant-Garde
MUSC*2280	[0.50]	Masterworks of Music

Note: other music history courses may be counted if students with knowledge of music are granted waivers by instructor. The substitution(s) must also be approved by the ESP coordinator.

Group D

PHIL*2140	[0.50]	History of Greek and Roman Philosophy
PHIL*2160	[0.50]	Modern European Philosophy to Hume
PHIL*3060	[0.50]	Medieval Philosophy
PHIL*3080	[0.50]	History of Modern European Philosophy from Kant
PHIL*3200	[0.50]	Contemporary European Philosophy
POLS*2000	[0.50]	Political Theory
POLS*2100	[0.50]	Comparative Politics
POLS*2200	[0.50]	International Relations
POLS*3460	[0.50]	Russia and Eastern Europe

Study Abroad

Year 3 or year 4 will provide students with the opportunity to continue their studies abroad. Students will select up to 6.00 credits which can be included in the area of emphasis, as electives, or both. They are subject to approval by the program coordinator and the departmental advisor. Courses taken in Europe will not count towards the specialization average.

Practicum Opportunity:

HUMN*3501/2 is available for those students wishing to participate in a practicum experience as part of the year abroad. The practicum must be a job or volunteer experience that contributes to the student's area of study and intended career. It must be approved in advance as a Letter of Permission by the Coordinator. A final report, written in the student's chosen language, is a requirement of this course.

Family and Child Studies (FCS)**Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences**

Family and Child Studies is offered as a minor in the honours program. It is designed to provide students with an opportunity to pursue interdisciplinary studies which have a specific focus on human development over the life span and on the applied questions which relate to the needs of children and the functioning of families. Elective courses may be chosen to emphasize the family, the child, or a combination of the two. Students seeking counselling should consult with a departmental advisor in the Department of Family Relations and Applied Nutrition.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

FRHD*1010	[0.50]	Human Development
FRHD*1020	[0.50]	Couple and Family Relationships
FRHD*2270	[0.50]	Development in Early and Middle Childhood
FRHD*3040	[0.50]	Parenting and Intergenerational Relationships
NUTR*1010	[0.50]	Nutrition and Society

A further 2.50 credits offered by the Department of Family Relations and Applied Nutrition (FRHD or NUTR*2050), of which at least 1.50 must be at the 3000 level or above including at least 0.50 at the 4000 level.

Note: where students are required to complete PSYC*2450 for their program of study, FRHD*2270 will not be required in the FCS minor, PSYC*2450 will be substituted for FRHD*2270.

Food, Agricultural and Resource Economics (FARE)**Department of Food, Agricultural and Resource Economics, Ontario Agricultural College**

The Food, Agricultural and Resource Economics major addresses the means by which individuals, acting in a society, achieve their wants and desires with respect to food quality and production, environmental quality and resource use, and broader goals as they relate to the food-resource-agriculture interface. This major builds the student's capacity to address these issues by developing an understanding of economic theory and applied methods in both the Canadian and world context. Beyond the core offering, the major provides the flexibility for students to pursue thematic areas of study, as well as an opportunity to take additional liberal arts courses. In addition, this major provides excellent background for those students planning to undertake graduate work in food, agricultural or resource economics and other fields of applied economics.

Major (Honours Program)

A minimum of 10.00 credits, consisting of the 8.50 credits specified below plus 1.50 credits of restricted electives, is required, including:

ACCT*2220	[0.50]	Financial Accounting
AGR*1250	[0.50]	Agri-food System Trends & Issues
AGR*2400	[0.50]	Economics of the Canadian Food System
FARE*1300	[0.50]	Poverty, Food & Hunger
FARE*2410	[0.50]	Agri-food Markets and Policy
FARE*2700	[0.50]	Survey of Natural Resource Economics
FARE*3030	[0.50]	The Firm and Markets
FARE*4000	[0.50]	Agricultural and Food Policy
ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2740	[0.50]	Economic Statistics
ECON*2770	[0.50]	Introductory Mathematical Economics
ECON*3740	[0.50]	Introduction to Econometrics

One of:

FARE*3170	[0.50]	Cost-Benefit Analysis
FARE*4360	[0.50]	Marketing Research
FARE*4500	[0.50]	Decision Science

One of:

MATH*1000	[0.50]	Introductory Calculus
MATH*1080	[0.50]	Elements of Calculus I
MATH*1200	[0.50]	Calculus I

1.50 additional credits, at least of which 0.50 credits must be at the 4000 level, chosen from the following list of thematic streams with the Food, Agricultural and Resource Economics specialization:

Agri-business Management:

FARE*2050	[0.50]	Markets for Molecules
FARE*3400	[0.50]	Agribusiness Financial Management
FARE*4220	[0.50]	Advanced Agribusiness Management
FARE*4240	[0.50]	Futures and Options Markets
FARE*4370	[0.50]	Food & Agri Marketing Management

Food and Agricultural Economics:

FARE*2050	[0.50]	Markets for Molecules
FARE*4220	[0.50]	Advanced Agribusiness Management
FARE*4240	[0.50]	Futures and Options Markets

International Agricultural Development Economics:

FARE*3250	[0.50]	Food, Nutrition & International Development
FARE*4210	[0.50]	World Agriculture and Economic Development

Resource Economics:

FARE*4290	[0.50]	Land Economics
FARE*4310	[0.50]	Resource Economics

Notes: A student may obtain permission to substitute certain other courses for the ones listed if the substitute courses fit with the students program. Approval from a departmental advisor is required.

Unless taken to satisfy the requirements of another program, no student may receive credit in this program for more than one of the following statistics prerequisites ECON*2740, STAT*2040, STAT*2060, or STAT*2080.

French Studies (FREN)

School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Please note that students with Ontario Grade 12 credit or its equivalent in French are not normally admitted into FREN*1090, FREN*1100, FREN*1120 or FREN*1150. Francophone students usually start the program with second-year courses conditional upon approval by the Faculty Advisor. Students majoring in French are advised to take elective courses in another Romance language and in Latin. It is also recommended that students include CLAS*1000 and LING*1000 among the electives in order to derive the maximum benefit from their studies. Except where stated otherwise, literary texts are, at all levels, studied in the original language. Students registering in French courses are expected to have the appropriate academic background.

Area of Concentration (General Program)

A minimum of 5.00 French credits taught in French is required, including FREN*1200, FREN*2020, FREN*2030, FREN*2060, FREN*2520, FREN*3520.

Major (Honours Program)

A minimum of 8.00 French credits taught in French is required, including:

- FREN*1200, FREN*2020, FREN*2030, FREN*2060, FREN*2520, FREN*3230
- at least 0.50 credits from FREN*2500, FREN*2540
- at least 2.00 additional credits from FREN*3000, FREN*3010, FREN*3080, FREN*3120, FREN*3200
- at least 1.00 credits from FREN*3500, FREN*3520, FREN*3530
- at least 1.50 credits at the 4000 level

Minor (Honours Program)

A minimum of 5.00 French credits taught in French is required, including:

- FREN*1200, FREN*2020, FREN*2030, FREN*2060, FREN*2520, FREN*3520
- 1.00 credits in French literature from FREN*3000, FREN*3010, FREN*3080, FREN*3120, FREN*3200, FREN*4300, FREN*4220, FREN*4290, FREN*4520
- 1.00 additional credits from French

Notes:

- Students are strongly urged to take 0.50 language credits each semester.
- Students in the general program may take 4000 level courses, but must previously have taken FREN*3520.
- Students of French are encouraged to take advantage of the French residence on this campus. Applications for accommodation in the Maison Française should be made well in advance of registration.
- FREN*1000, FREN*1090, FREN*1100, FREN*1120, FREN*1150, are not counted toward a specialization in French.
- Native speakers of French (or non-francophone equivalent) will not normally be admitted into FREN*1200 and FREN*2030. It is recommended they start their program with FREN*2020, FREN*2060, FREN*2500, or FREN*2520 with the approval of the Faculty Advisor.

Studies in Quebec or Abroad

The French program encourages students to spend 1 or 2 semesters in a French-speaking province or country, or to pursue their studies in an immersion program at the university level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. Requests should be addressed well in advance of registration to the Director of the School of Languages and Literatures. A letter of permission is required (see Section VIII--Undergraduate Degree Regulations & Procedures). Students may also take advantage of federal-provincial programs such as the Second-Language Monitor program.

Year in Nice

A special year-long program in Nice, France, is offered to Guelph students at semester levels 5 and 6. All courses for which transfer credits have been arranged are credited at Guelph without the need for letters of permission; students pay only Guelph academic fees and are eligible for OSAP. For further information see the Head of French Studies.

Geography (GEOG)

Department of Geography, College of Social and Applied Human Sciences

The Department of Geography provides students with a broad range of courses in Human and Physical Geography which focus on the nature and evolution of the numerous and complex physical and human environment systems of the world. Students are required to select courses from both the human and physical fields. Within the program of studies it is possible for students through course selection to follow a particular line of interest in, for example, Rural Geography, Resource Management, Urban and Economic Geography, Biophysical Resources or Geomorphology.

The 1000 level courses provide a foundation for the Geography programs and are prerequisites or are strongly recommended for many of the 2000 level courses. The 2000 level systematic courses are prerequisite to the corresponding advanced courses at the 3000 and 4000 level. All students should obtain a copy of the department program planning guide and consult with faculty before planning their course of studies.

Students contemplating graduate or professional programs of study following completion of the honours program should consult a departmental advisor for advice on additional courses that they should take.

The department also offers a B.Sc. honours Earth Surface Science program (jointly with Land Resources Science), a B.Sc.(ENV.) honours Environmental Geography Major program, and a B.Sc. honours program Minor in Geographic Information Systems and Environmental Analysis which are described in the schedule of studies for each of the programs (Section X). Geography B.A. honours Majors are eligible to take the B.Sc. Minor. All Geography students are encouraged to consult with a departmental advisor regarding course selection.

The following courses may be counted as Geography credits: ENVS*4220, GEOL*2150, MET*2030, SOIL*2010.

Area of Concentration (General Program)

A minimum of 5.00 credits in Geography is required, including:

GEOG*1200	[0.50]	Society and Space
GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*1300	[0.50]	Introduction to the Biophysical Environment

Two of:

GEOG*2000	[0.50]	Geomorphology
GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOG*2210	[0.50]	Environment and Resources
GEOG*2230	[0.50]	Economic Geography
GEOG*2260	[0.50]	Applied Human Geography

One of:

GEOG*2460	[0.50]	Analysis in Geography
GEOG*2480	[0.50]	Mapping and GIS

2.00 credits at the 3000 level or above

Major (Honours Program)

A minimum of 9.00 credits in Geography is required, including:

GEOG*1200	[0.50]	Society and Space
GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
GEOG*2000	[0.50]	Geomorphology
GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOG*2210	[0.50]	Environment and Resources
GEOG*2230	[0.50]	Economic Geography
GEOG*2260	[0.50]	Applied Human Geography
GEOG*2460	[0.50]	Analysis in Geography
GEOG*2480	[0.50]	Mapping and GIS
GEOG*3480	[0.50]	GIS and Spatial Analysis
GEOG*4880	[0.50]	Contemporary Geographic Thought

3.00 additional credits in Geography at the 3000 level or above including at least 1.50 credits at the 4000 level.

Minor (Honours Program)

A minimum of 5.00 credits in Geography is required, including:

Two of:

GEOG*1200	[0.50]	Society and Space
GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*1300	[0.50]	Introduction to the Biophysical Environment

Two of:

GEOG*2000	[0.50]	Geomorphology
GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOG*2210	[0.50]	Environment and Resources
GEOG*2230	[0.50]	Economic Geography

One of:

GEOG*2260	[0.50]	Applied Human Geography
GEOG*2460	[0.50]	Analysis in Geography
GEOG*2480	[0.50]	Mapping and GIS

2.50 credits in Geography at the 3000 or 4000 level, 0.50 of which must be at the 4000 level.

German (GERM)

School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Students with two years of high school German or equivalent may not be admitted into GERM*1100. Students with 12U German credit or its equivalent may be admitted into GERM*1110 only with the approval of the department. All language students are advised to include LING*1000 among their electives in order to derive the maximum benefit from their studies. Except where stated otherwise, literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge.

Study Abroad

The School of Languages and Literatures encourages students in the German program to spend 1 or 2 semesters in a German speaking country to continue their studies at the University level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. For more information, contact the [Centre for International Program](#) or the School of Languages and Literatures.

Minor (Honours Program)

A minimum of 5.00 credits in German is required.

Upon passing both the German designation and its Humanities co-requisites, students may also count HUMN*3020 and HUMN*3470 toward the German minor.

Students enrolled in the German program must contact the School of Languages and Literatures for an up-to-date sequence of course offerings.

Hispanic Studies (HISP)

School of Languages and Literatures, College of Arts

The Hispanic Studies program enables students to concentrate on the Spanish language and on Spanish and Latin American literature. Language courses provide study of the grammatical concepts required to establish and enrich reading, writing, oral and aural skills from basic through advanced levels of study. Through literature and film, students are introduced to a variety of cultural, historical, social, and political topics.

The usual first course in Spanish is HISP*1100. Students with 4U Spanish commonly take HISP*2000. They may be admitted into HISP*1110 only with the approval of the Instructor or the Faculty Advisor. Students with native or near native fluency normally begin language courses with HISP*2000. Such students should consult the Head of Hispanic Studies before beginning their studies, so that pre-requisite waiver forms are completed.

All language students are strongly advised to include CLAS*1000 and LING*1000, among their electives in order to derive the maximum benefit from their studies.

Study Abroad

The Hispanic Studies program encourages its students to take advantage of the University of Guelph's exchange programs and the semester abroad opportunities. Exchange programs with the University of Málaga and the University of La Rioja in Spain and with the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) in Mexico are very popular. Students also enjoy the semester abroad opportunity every second winter in Guatemala. It is recommended that students go on exchange in their third year. In order to be eligible for an exchange, students should have completed at least HISP*2010, HISP*2990 and HISP*2040 and HISP*3080. Credits successfully completed at the host university are applied towards University of Guelph degree requirements. Please see the International Study section of the undergraduate calendar and consult the Coordinator of Hispanic Studies for more information.

Area of Concentration (General Program)

A minimum of 5.00 credits in Hispanic Studies is required, including:

- 2.50 credits from HISP*1110, HISP*2000, HISP*2010, HISP*3500, HISP*3530, HISP*4500, HISP*4520
- HISP*2040, HISP*2990, HISP*3080
- 0.50 credits in literature
- additional 0.50 credits in Hispanic Studies.

Major (Honours Program)

A minimum of 8.00 credits in Hispanic Studies is required, including:

- HISP*2000, HISP*2010, HISP*2040, HISP*2990, HISP*3080, HISP*3220, HISP*3230, HISP*3240, HISP*3500, HISP*3530, HISP*4410, HISP*4420, HISP*4500, HISP*4520

Minor (Honours Program)

A minimum of 5.00 credits in Hispanic Studies is required, including:

- 2.50 credits from HISP*1110, HISP*2000, HISP*2010, HISP*3500, HISP*3530, HISP*4500, HISP*4520
- HISP*2040, HISP*2990, HISP*3080
- 1.00 credits in literature

Students wishing to substitute required courses with courses taken abroad, or other options, should consult the faculty advisor.

History (HIST)

Department of History, College of Arts

Courses marked (H) are designed as honours courses. Students in a general program wishing to take these must obtain the permission of instructors concerned. All other courses may be taken by both general and honours students. Students wishing to take a 3000 level course must have pass standing in at least 5.00 credits in university courses.

Students wishing to take a 4000 level course must have pass standing in at least 10.00 university credits. Access to all 4000 level history courses is restricted to students in the B.A. Honours program with at least a 70% average in all history course attempts. Students should note the prerequisite requirements of upper level courses in planning their individual programs.

Students entering semester 1 are advised to choose from 1000 level courses. Second semester students wishing to take an advanced level History course should select that course from the History core.

Core Requirements

- HIST*1010, HIST*2100, HIST*2450, HIST*2600
- 0.50 credits from each of a) Pre-Modern; b) Developing World; and c) Thematic. Course lists available in the Department of History and at <http://www.uoguelph.ca/history/>.

Area of Concentration (General Program)

A minimum of 5.00 credits in History is required, including:

- at least 1.50 credits in History must be at the 3000 level (excluding HIST*3470)
- students should take the History Core Requirements

Note: With the permission of the department, students may select as part of their program 0.50 credits outside the History Department such as ECON*2420, ECON*3730, EURO*4600, WMST*4010.

Major (Honours Program)

A minimum of 8.00 credits in History courses is required, including:

- the History Core Requirements
- 4.50 additional credits in History including 2.00 at the 4000 level.

Minor (Honours Program)

A minimum of 5.00 credits in History is required, including:

- the History Core Requirements
- 1.50 additional credits in History, including 1.00 at the 3000 or 4000 level.

Note: Honours students in History may, with the permission of the department, take up to 1.00 credits from outside the department such as ECON*2420, ECON*3730, EURO*4600, WMST*4010. Students considering graduate work are advised to take 2.00 - 3.00 additional upper level History credits perhaps including the Special History Project Seminar (HIST*4470, HIST*4970) and to acquire a reading knowledge of a foreign language. Honours students must complete HIST*2450 by the end of their third semester to be eligible for 3000 level History courses.

Individual Studies (IS)

Interdisciplinary Program

B.A. Counselling Office, Room 130, MacKinnon Building, Ext. 52140.

Honours B.A. students have the option of doing an Individual Studies Major. Students in the Individual Studies Major have the opportunity to determine the goals and methods of their studies. Areas of study can include courses in any of the colleges and where the University of Guelph has faculty expertise to assist students. Students are encouraged to develop an interdisciplinary perspective, and to explore the methods of inquiry which provide depth of knowledge in a specific subject.

A student submitting a proposal for the Individual Studies Major must submit the complete proposal to the B.A. Program Counsellor before the third week of classes of semester four. The B.A. Program Committee will consider proposals once, and will approve, approve with revisions, or deny the proposal. Proposals cannot be resubmitted.

Proposals will not be considered unless they articulate a detailed rationale for a coherent program of studies that is significantly different from any existing major and minor combination at the University of Guelph, and unless the proposal meets the following criteria:

- minimum of 9.00 credits
- minimum of 4.00 credits at the 3000 level and above, including at least 1.00 credits at the 4000 level
- minimum of 1.00 credits in methods and/or theory
- maximum of 1.50 credits at the 1000 level
- a senior level Directed Readings or Special Project course must be completed. When appropriate, the Committee will identify a faculty member as the supervisor for a student's course of study.

A student wishing to submit a proposed program of studies for the Individual Studies Major must prepare a proposal that will include the following:

- a clear statement of theme or areas of study
- a clear statement of the contribution of the major to a post-graduation field of work or study
- a clearly set out rationale for inclusion of the specific courses and how they relate to or develop the theme or areas of study
- a list of required "core" courses and "restricted electives" following the above criteria. When proposing core and restricted elective credits, students should keep in mind the prerequisites for their desired 3000 and 4000 level courses

Note: Students undertaking the Individual Studies Major must fulfill the requirements of the B.A. Honours Program as set out in Section X. The B.A. Program Counsellor is the academic counsellor. The Individual Studies designation will appear on the student's transcript upon graduation, but the title or subject of the major will not.

Information Systems and Human Behaviour (ISHB)

Interdisciplinary Program

As computers and communications play progressively more subtle and significant roles in society, this program of study brings together the elements of 3 disciplines to provide students with an understanding of technical, behavioural and social aspects of information technology. This program of study is a co-operative effort of the Department of Computing and Information Science, Department of Psychology, and Department of Sociology and Anthropology. Students in this program will be advised by the program coordinator in the Department of Computing and Information Science.

Major (Honours Program)

Computing and Information Science Courses

CIS*1500	[0.50]	Introduction to Programming
CIS*1910	[0.50]	Discrete Structures in Computing I
CIS*2430	[0.50]	Object Oriented Programming
CIS*2500	[0.50]	Intermediate Programming
CIS*2520	[0.50]	Data Structures
CIS*2750	[0.75]	Software Systems Development and Integration
CIS*2910	[0.50]	Discrete Structures in Computing II
CIS*3530	[0.50]	Data Base Systems and Concepts
CIS*3750	[0.75]	System Analysis and Design in Applications
CIS*4300	[0.50]	Human Computer Interaction

Psychology Courses

PSYC*1100	[0.50]	Principles of Behaviour
PSYC*1200	[0.50]	Dynamics of Behaviour
PSYC*2360	[0.50]	Introductory Research Methods
PSYC*2390	[0.50]	Principles of Sensation and Perception
PSYC*2650	[0.50]	Cognitive Psychology
PSYC*3080	[0.50]	Organizational Psychology

One of:

SOAN*2040	[0.50]	Globalization of Work and Organizations
PSYC*2310	[0.50]	Introduction to Social Psychology

One of:

PSYC*3330	[0.50]	Memory
PSYC*3340	[0.50]	Psycholinguistics

0.50 electives from a 4000 level Psychology course

Sociology and Anthropology Courses

ANTH*1150	[0.50]	Introduction to Anthropology
SOC*1100	[0.50]	Sociology
SOAN*3070	[0.50]	Qualitative and Observational Methods

0.50 electives from a 4000 level course in ANTH, SOAN or SOC

Statistics Courses

STAT*2040	[0.50]	Statistics I
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International Development (ID)

Interdisciplinary Program

Faculty Advisor: Room 045 MacKinnon Building, ext 56175.

The International Development program provides students with an opportunity to pursue interdisciplinary and comparative studies of long-term change and international inequality.

A broad coverage of the process of international development, from the perspectives of history and social science, forms the basis for more in-depth study on such topics as economic growth, the biophysical environment, gender, agriculture and rural life, politics and administration, and the Latin American region.

The primary participating departments are Economics, Geography, Political Science, and Sociology and Anthropology.

Area of Concentration (General Program)

A minimum of 5.25 credits is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
IDEV*2500	[0.75]	International Development Studies
POLS*2080	[0.50]	Development and Underdevelopment

Five of:

ECON*2650	[0.50]	Introductory Development Economics
ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914
GEOG*2030	[0.50]	Political Ecology & Geography
GEOG*3050	[0.50]	Development and the City
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3790	[0.50]	The Political Economy of International Relations
SOAN*3680	[0.50]	Perspectives on Development

Major (Honours Program)

A minimum of 12.50 credits is required, including the core of 7.50 credits and one of seven areas of emphasis for 5.00 credits. The areas are: Economic and Business Development, Gender and Development, Rural and Agricultural Development, Environment and Development, Latin American Studies, Political Economy and Administrative Change, and Historical Perspectives in Development. Students must select an area of emphasis by the end of the 4th semester of university study.

International Development students are encouraged to acquire at least one foreign language and to work or study abroad.

With the permission of the International Development Studies faculty advisor, students may replace 0.50 credits from their area of emphasis with IDEV*3200, or 1.00 credits from their area of emphasis with IDEV*4190 and IDEV*4200.

Note: When selecting courses, students should keep in mind the prerequisites for their desired 3000 and 4000 level courses.

Core Requirements

ANTH*1150	[0.50]	Introduction to Anthropology
ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
ECON*2650	[0.50]	Introductory Development Economics
GEOG*2030	[0.50]	Political Ecology & Geography
GEOG*3050	[0.50]	Development and the City
IDEV*2500	[0.75]	International Development Studies *
IDEV*4500	[0.75]	International Development Seminar **
POLS*2080	[0.50]	Development and Underdevelopment

One of:

IDEV*3010	[0.50]	Case Studies in International Development
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0.50 credits from an approved semester abroad or exchange program

One of:

HIST*2930	[0.50]	Women and Cultural Change
SOAN*2400	[0.50]	Introduction to Gender Systems
WMST*1000	[0.50]	Introduction to Women's Studies
WMST*2000	[0.50]	Women and Representation

One of:

ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914

One of:

EDRD*4020	[0.50]	Rural Extension in Change and Development
FARE*1300	[0.50]	Poverty, Food & Hunger
FARE*3250	[0.50]	Food, Nutrition & International Development
SOC*2080	[0.50]	Rural Sociology

One of:

POLS*3320	[0.50]	Politics of Aid & Development
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3790	[0.50]	The Political Economy of International Relations

* students must complete IDEV*2500 before Semester 5

** students normally complete IDEV*4500 in their final year of study

Areas of Emphasis

Environment and Development

GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
GEOG*2210	[0.50]	Environment and Resources
GEOG*3210	[0.50]	Management of the Biophysical Environment

One of:

ECON*2100	[0.50]	Economic Growth and Environmental Quality
FARE*2700	[0.50]	Survey of Natural Resource Economics
HIST*2250	[0.50]	Environment and History
PHIL*2070	[0.50]	Philosophy of the Environment
POLS*3370	[0.50]	Environmental Politics and Governance
SOC*2280	[0.50]	Society and Environment
SOC*3380	[0.50]	Society and Nature

Choose Option A or B

Option A - Biophysical Environment

GEOG*2460	[0.50]	Analysis in Geography
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Two of:

GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOG*2480	[0.50]	Mapping and GIS
GEOG*3020	[0.50]	Global Environmental Change
GEOG*3110	[0.50]	Biotic and Natural Resources
GEOG*3610	[0.50]	Environmental Hydrology
GEOG*3620	[0.50]	Global Environmental Change

Two of:

GEOG*3480	[0.50]	GIS and Spatial Analysis
GEOG*4110	[1.00]	Environmental Systems Analysis
GEOG*4210	[0.50]	Environmental Governance
GEOG*4220	[0.50]	Local Environmental Management

GEOG*4230	[0.50]	Environmental Impact Assessment
GEOG*4250	[0.50]	Coastal Processes
GEOG*4480	[1.00]	Applied Geographic Information Systems

Option B - Human Environment

GEOG*2260	[0.50]	Applied Human Geography
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Two of:

GEOG*2480	[0.50]	Mapping and GIS
GEOG*3020	[0.50]	Global Environmental Change
GEOG*3090	[0.50]	Gender and Environment
GEOG*3320	[0.50]	Agriculture and Society
GEOG*3490	[0.50]	Tourism and Environment
GEOG*3600	[0.50]	Geography of a Selected Region

Two of:

GEOG*3480	[0.50]	GIS and Spatial Analysis
GEOG*4200	[0.50]	Seminar in Urban Geography
GEOG*4210	[0.50]	Environmental Governance
GEOG*4220	[0.50]	Local Environmental Management
GEOG*4230	[0.50]	Environmental Impact Assessment
GEOG*4390	[0.50]	Seminar in Rural Geography
GEOG*4480	[1.00]	Applied Geographic Information Systems

Economic and Business Development

ACCT*2220	[0.50]	Financial Accounting
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2740	[0.50]	Economic Statistics *

Two of:

ECON*4720	[0.50]	Topics in Economic History
ECON*4830	[0.50]	Economic Development
ECON*4880	[0.50]	Topics in International Economics
ECON*4890	[0.50]	History of Economic Thought
ECON*4900	[0.50]	Special Study in Economics
ECON*4930	[0.50]	Environmental Economics
FARE*4290	[0.50]	Land Economics
FARE*4310	[0.50]	Resource Economics

1.50 additional credits at the 2000 level or above in ECON or FARE, at least 0.50 being in ECON and at least 1.00 being at the 3000 level or above.

0.50 additional credits with a regional focus at the 2000 level or above in ANTH, GEOG, HIST, IDEV, ISS, POLS, SOAN or SOC.

* Entry into ECON*2740 requires one of MATH*1000, MATH*1050, MATH*1080, MATH*1200.

Gender and Development

ANTH*2160	[0.50]	Social Anthropology
SOAN*2120	[0.50]	Introductory Methods
SOAN*3240	[0.50]	Gender & Global Inequality I
SOAN*4230	[0.50]	Gender & Global Inequality II

One of the following not taken as part of the core:

ANTH*2230	[0.50]	Regional Ethnography
SOC*2080	[0.50]	Rural Sociology

One of:

SOAN*3070	[0.50]	Qualitative and Observational Methods
SOAN*3120	[0.50]	Quantitative Methods

One of:

ANTH*3400	[0.50]	The Anthropology of Gender
ANTH*3670	[0.50]	Indigenous Peoples: Global Context
ANTH*3690	[0.50]	History of Anthropological Thought
ANTH*3770	[0.50]	Kinship and Social Organization
SOAN*3100	[0.50]	Gender Perspectives on Families and Households

Two of the following not taken as part of the core, at least 0.50 credits being at the 3000 level:

ENGL*2880	[0.50]	Women in Literature
GEOG*3090	[0.50]	Gender and Environment
HIST*2800	[0.50]	The History of the Modern Family
HIST*2930	[0.50]	Women and Cultural Change
HIST*3020	[0.50]	Sexuality and Gender in History
HIST*3580	[0.50]	Women's History in Asia
PHIL*2060	[0.50]	Philosophy of Feminism I
POLS*2150	[0.50]	Gender and Politics
POLS*3160	[0.50]	Women and Politics in the Third World
POLS*3710	[0.50]	Politics and Sexuality
WMST*2000	[0.50]	Women and Representation
WMST*3000	[0.50]	Feminist Theory and Methods
WMST*3010	[0.50]	Gender and Diversity

0.50 additional credits at the 4000 level in ANTH, SOAN, SOC or WMST

Historical Perspectives in Development

HIST*1010	[0.50]	The Early Modern World
HIST*2450	[0.50]	The Practising Historian

Two of:

HIST*1150	[0.50]	The Modern World
HIST*2070	[0.50]	World Religions in Historical Perspective
HIST*2250	[0.50]	Environment and History
HIST*2340	[0.50]	Migrations in the Atlantic World, 1500-1850
HIST*2500	[0.50]	Britain Since 1603
HIST*2800	[0.50]	The History of the Modern Family
HIST*2890	[0.50]	Early Islamic World
HIST*2910	[0.50]	Modern Asia
HIST*2920	[0.50]	Republican Latin America

Three of the following not taken as part of the core:

ECON*2420	[0.50]	Canadian Economic History
ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914
HIST*3070	[0.50]	Modern India
HIST*3150	[0.50]	History and Culture of Mexico
HIST*3270	[0.50]	Revolution in the Modern World
HIST*3310	[0.50]	Disease and History
HIST*3380	[0.50]	British Imperialism in Asia and Africa
HIST*3410	[0.50]	Pre-Colonial Africa
HIST*3420	[0.50]	Colonial Latin America
HIST*3430	[0.50]	Topics in Environment and Society
HIST*3470	[0.50]	Independent Reading
HIST*3580	[0.50]	Women's History in Asia
HIST*3590	[0.50]	Ancient & Medieval India
HIST*3830	[0.50]	Modern Middle East
HIST*3840	[0.50]	Ottoman Empire, 1300-1923
HIST*3910	[0.50]	Africa Since 1800

1.00 additional credits at the 4000-level in HIST.

0.50 additional credits with a regional focus at the 2000 level or above in ANTH, GEOG, IDEV, ISS, POLS, SOAN or SOC.

Latin American Studies

HISP*2000	[0.50]	Intermediate Spanish I
HISP*2010	[0.50]	Intermediate Spanish II
HISP*3500	[0.50]	Advanced Spanish I

One of:

POLS*3180	[0.50]	Research Methods I: Political Inquiry and Methods
SOAN*2120	[0.50]	Introductory Methods

Three of:

HISP*2990	[0.50]	Hispanic Literary Studies
HISP*3080	[0.50]	Spanish American Culture
HIST*2920	[0.50]	Republican Latin America
HIST*3150	[0.50]	History and Culture of Mexico
HIST*3420	[0.50]	Colonial Latin America
HUMN*3300	[0.50]	Latin American Studies in the Humanities
ISS*3300	[0.50]	Latin American Studies in the Social Sciences
POLS*3080	[0.50]	Politics of Latin America
SOAN*3250	[0.50]	Social Change in Latin America

0.50 additional credits in HISP at the 3000 level*

1.00 additional credits at the 4000 level in HISP or in ANTH, HIST, IDEV, POLS, SOAN, SOC with a focus on Latin America or the Caribbean. Please consult with the International Development advisor for a list of appropriate courses.

*Note: HISP*2990 or permission of the instructor is required for 3rd-year Hispanic Studies literature courses.

Political Economy and Administrative Change

POLS*3180	[0.50]	Research Methods I: Political Inquiry and Methods
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Two of:

POLS*2000	[0.50]	Political Theory
POLS*2100	[0.50]	Comparative Politics
POLS*2200	[0.50]	International Relations

Two of the following not taken as part of the core:

ECON*2100	[0.50]	Economic Growth and Environmental Quality
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2720	[0.50]	Business History
ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914
ECON*4720	[0.50]	Topics in Economic History
ECON*4830	[0.50]	Economic Development
ECON*4890	[0.50]	History of Economic Thought
FARE*2700	[0.50]	Survey of Natural Resource Economics
FARE*3170	[0.50]	Cost-Benefit Analysis
FARE*3250	[0.50]	Food, Nutrition & International Development
FARE*4210	[0.50]	World Agriculture and Economic Development
FARE*4290	[0.50]	Land Economics
FARE*4310	[0.50]	Resource Economics

1.00 additional credits in POLS at the 3000-level, not taken as part of the core.

1.00 additional credits in POLS at the 4000 level
 0.50 additional credits with a regional focus at the 2000 or 3000 level in HIST or POLS.
 The faculty advisor for International Development maintains a list of appropriate courses.

Rural and Agricultural Development

SOAN*2120 [0.50] Introductory Methods

One of the following not taken as part of the core:

ANTH*2160 [0.50] Social Anthropology
 FARE*1300 [0.50] Poverty, Food & Hunger
 FARE*2700 [0.50] Survey of Natural Resource Economics
 SOC*2080 [0.50] Rural Sociology

One of:

FARE*3170 [0.50] Cost-Benefit Analysis
 SOAN*3070 [0.50] Qualitative and Observational Methods
 SOAN*3120 [0.50] Quantitative Methods

Two of the following not taken as part of the core:

ANTH*3670 [0.50] Indigenous Peoples: Global Context
 ANTH*3690 [0.50] History of Anthropological Thought
 FARE*3250 [0.50] Food, Nutrition & International Development
 SOAN*3240 [0.50] Gender & Global Inequality I
 SOAN*3250 [0.50] Social Change in Latin America
 SOAN*3680 [0.50] Perspectives on Development
 SOC*3380 [0.50] Society and Nature

Any EDRD courses at the 3000 level or above.

Two of:

AGR*1250 [0.50] Agrifood System Trends & Issues
 AGR*2500 [0.50] Field Course in International Agriculture
 BIOL*1070 [0.50] Discovering Biodiversity
 BIOL*1080 [0.50] Biological Concepts of Health
 GEOG*1300 [0.50] Introduction to the Biophysical Environment
 NRS*2120 [0.50] Introduction to Environmental Stewardship
 OAGR*2050 [0.50] Gateway to Organic Agriculture
 SOIL*2010 [0.50] Soil Science

0.50 additional credits at the 3000 or 4000 levels in AGR, ENVB, GEOL, HORT, NRS, OAGR, SOIL or any biophysical course in GEOG.

1.00 additional credits in ANTH, FARE, SOAN or SOC at the 4000 level.

Minor (Honours Program)

A minimum of 5.25 credits is required, including:

ANTH*1150 [0.50] Introduction to Anthropology
 ECON*1050 [0.50] Introductory Microeconomics
 ECON*1100 [0.50] Introductory Macroeconomics
 IDEV*2500 [0.75] International Development Studies
 POLS*2080 [0.50] Development and Underdevelopment

Five of:

ECON*2650 [0.50] Introductory Development Economics
 ECON*3720 [0.50] History of the World Economy Since 1850
 ECON*3730 [0.50] Europe and the World Economy to 1914
 GEOG*2030 [0.50] Political Ecology & Geography
 GEOG*3050 [0.50] Development and the City
 POLS*3670 [0.50] Comparative Public Policy and Administration
 POLS*3790 [0.50] The Political Economy of International Relations
 SOAN*3680 [0.50] Perspectives on Development

Italian (ITAL)

School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Students with Year 4 or grade 12 Italian or their equivalent may be admitted into ITAL*1060 or ITAL*1070 only with the approval of the department. Students advancing in a Romance language (French, Spanish, Italian) are advised to take elective courses in a second Romance language and in Latin. All language students are strongly advised to include CLAS*1000 and LING*1000 among their electives in order to derive the maximum benefit from their studies. Except where stated otherwise, literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge.

Study Abroad

The School of Languages and Literatures encourages students in modern languages to spend 1 or 2 semesters in another country to study a particular language at the university level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. Requests should be addressed well in advance to either the School or a particular section of the School. A letter of permission is required (see Section VIII--Undergraduate Degree Regulations and Procedures.)

Italian may be taken as a minor in the honours program. Students in Italian will be counselled by the School of Languages and Literatures.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

a. ITAL*2090, ITAL*3060

b. two of the following courses ITAL*2100, ITAL*3150, ITAL*3200, ITAL*3950, ITAL*3960, ITAL*3970

c. 1.50 additional credits from List A

d. at least 1.00 credits from List B

List A

ITAL*1060 [0.50] Introductory Italian I
 ITAL*1070 [0.50] Introductory Italian II
 ITAL*2100 [0.50] Renaissance Lovers and Fools
 ITAL*3150 [0.50] Medieval Italian Literature
 ITAL*3200 [0.50] Novels of Resistance
 ITAL*3950 [0.50] Topics in Italian Literature
 ITAL*3960 [0.50] Topics in Italian Literature
 ITAL*3970 [0.50] Topics in Italian Literature
 ITAL*4900 [0.50] Research Paper in Italian Studies

List B

ARTH*2540 [0.50] Medieval Art
 ARTH*2550 [0.50] The Italian Renaissance
 ARTH*2950 [0.50] Baroque Art
 ARTH*3100 [0.50] Perspectives: Structure & Space in Western Art
 ARTH*3150 [0.50] Space: Roman Art and Urbanism
 ARTH*3310 [0.50] Image: Pictures & Their Power
 ARTH*3320 [0.50] Lives: Aspects of Western Art

One of:

ARTH*3340 [0.50] The Art Object & Material Culture
 ANTH*3640 [0.50] Objects: Baroque Art and Rococo Art
 CLAS*1000 [0.50] Introduction to Classical Culture
 CLAS*2000 [0.50] Classical Mythology
 HIST*2200 [0.50] The Medieval World
 HIST*2850 [0.50] Ancient Greece and Rome
 HIST*3750 [0.50] The Reformation
 LAT*1100 [0.50] Preliminary Latin I
 LAT*1110 [0.50] Preliminary Latin II
 LAT*2000 [0.50] Latin Literature
 LING*1000 [0.50] Introduction to Linguistics
 PHIL*2140 [0.50] History of Greek and Roman Philosophy
 PHIL*3060 [0.50] Medieval Philosophy

Marketing Management (MKMN)

Department of Marketing and Consumer Studies, College of Management and Economics

A Marketing Management minor is designed for students who wish to pursue interdisciplinary studies that consider consumers and the marketplace, consumers and their decision processes and behaviours, markets and their structure and various interactive relationships, and issues concerning market management.

Students who wish to declare the Marketing Management Minor specialization must apply directly to the Department. In order to be eligible, applicants must have a cumulative average of 70% or better in all course attempts towards the minor.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

ACCT*2220 [0.50] Financial Accounting
 BUS*2090 [0.50] Individuals and Groups in Organizations
 ECON*1050 [0.50] Introductory Microeconomics
 ECON*1100 [0.50] Introductory Macroeconomics
 MCS*1000 [0.50] Introductory Marketing
 MCS*2600 [0.50] Fundamentals of Consumer Behaviour

2.00 restricted electives from the list of Restricted Electives, 1.00 of which must be at the 3000 level

Restricted Electives

MCS*2020 [0.50] Marketing Information Management
 MCS*3000 [0.50] Advanced Marketing
 MCS*3030 [0.50] Research Methods
 MCS*3040 [0.50] Business and Consumer Law
 MCS*3500 [0.50] Market Analysis and Planning
 MCS*3600 [0.50] Consumer Information Processes
 MCS*3620 [0.50] Marketing Communications

One of:

ECON*2740 [0.50] Economic Statistics
 STAT*2060 [0.50] Statistics for Business Decisions

Mathematical Economics (MAEC)

Department of Economics and Finance, College of Management and Economics

Most economic theory rests on explicit, formal, mathematical and/or statistical foundations. This specialization articulates and emphasizes these interactions. It is most suitable for students who either have, or wish to develop, a strong analytical background.

Major (Honours Program)**Semester 1**

CIS*1500	[0.50]	Introduction to Programming
ECON*1050	[0.50]	Introductory Microeconomics
MATH*1200	[0.50]	Calculus I

1.00 electives

Semester 2

ECON*1100	[0.50]	Introductory Macroeconomics
MATH*1210	[0.50]	Calculus II

1.50 electives

Semester 3

ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
STAT*2040	[0.50]	Statistics I

1.00 electives

Semester 4

ECON*3740	[0.50]	Introduction to Econometrics
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2.00 electives or restricted electives*

Semester 5

ECON*3710	[0.50]	Advanced Microeconomics
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2.00 electives or restricted electives*

Semester 6

ECON*3100	[0.50]	Game Theory
ECON*3810	[0.50]	Advanced Macroeconomics

1.50 electives or restricted electives*

Semester 7

ECON*4640	[0.50]	Applied Econometrics I
ECON*4710	[0.50]	Advanced Topics in Microeconomics
ECON*4700	[0.50]	Advanced Mathematical Economics

1.00 electives or restricted electives*

Semester 8

ECON*4810	[0.50]	Advanced Topics in Macroeconomics
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One of:

ECON*4840	[0.50]	Applied Econometrics II
MATH*3200	[0.50]	Real Analysis
STAT*4340	[0.50]	Statistical Inference
STAT*4350	[0.50]	Applied Multivariate Statistical Methods
STAT*4360	[0.50]	Applied Time Series Analysis

0.50 credits in Economics at the 4000 level

1.00 electives

*at least 1.00 credits of the 4.00 restricted electives credits must be from Mathematics and 1.00 credits must be from Statistics. The remaining 2.00 credits can be from either subject area. Of the 4.00 credits, at least 1.00 credits must be at the 3000 level or above and the remaining 3.00 credits must be at the 2000 level or above.

Note: Courses from MATH or STATS will be allowed with the appropriate prerequisites, or by permission of the instructor.

Mathematical Economics (Co-op) (MAEC:C)

Department of Economics and Finance, College of Management and Economics

Most economic theory rests on explicit, formal, mathematical and/or statistical foundations. This specialization articulates and emphasizes these interactions. It is most suitable for students who either have, or wish to develop, a strong analytical background.

Major (Honours Program)**Semester 1 - Fall**

CIS*1500	[0.50]	Introduction to Programming
ECON*1050	[0.50]	Introductory Microeconomics
MATH*1200	[0.50]	Calculus I

1.00 electives

Semester 2 - Winter

ECON*1100	[0.50]	Introductory Macroeconomics
MATH*1210	[0.50]	Calculus II

1.50 electives

Semester 3 - Fall

COOP*1100	[0.00]	Introduction to Co-operative Education
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
STAT*2040	[0.50]	Statistics I

1.00 electives

Semester 4 - Winter

ECON*3740	[0.50]	Introduction to Econometrics
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2.00 electives or restricted electives*

Spring/Summer

COOP*1000	[0.00]	Co-op Work Term I
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Fall

COOP*2000	[0.00]	Co-op Work Term II
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Semester 5 - Winter

ECON*3100	[0.50]	Game Theory
ECON*3810	[0.50]	Advanced Macroeconomics

1.50 electives or restricted electives*

Spring/Summer

COOP*3000	[0.00]	Co-op Work Term III
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Semester 6 - Fall

ECON*3710	[0.50]	Advanced Microeconomics
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2.00 electives or restricted electives*

Winter

COOP*4000	[0.00]	Co-op Work Term IV
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Spring/Summer

COOP*5000	[0.00]	Co-op Work Term V
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Semester 7 - Fall

ECON*4640	[0.50]	Applied Econometrics I
ECON*4700	[0.50]	Advanced Mathematical Economics
ECON*4710	[0.50]	Advanced Topics in Microeconomics

1.00 electives or restricted electives*

Semester 8 - Winter

ECON*4810	[0.50]	Advanced Topics in Macroeconomics
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One of:

ECON*4840	[0.50]	Applied Econometrics II
MATH*3200	[0.50]	Real Analysis
STAT*4080	[0.50]	Data Analysis
STAT*4340	[0.50]	Statistical Inference
STAT*4350	[0.50]	Applied Multivariate Statistical Methods
STAT*4360	[0.50]	Applied Time Series Analysis

0.50 credits at the 4000 level Economics

1.00 electives

*at least 1.00 credits of the 4.00 restricted electives credits must be from Mathematics and 1.00 credits must be from Statistics. The remaining 2.00 credits can be from either subject area. Of the 4.00 credits, at least 1.00 credits must be at the 3000 level or above and the remaining 3.00 credits must be at the 2000 level or above.

Note: Courses from MATH or STATS will be allowed with the appropriate prerequisites, or by permission of the instructor.

Mathematics (MATH)**Department of Mathematics and Statistics, College of Physical and Engineering Science**

Mathematics and Statistics have become crucial components in the understanding and exploration of more and more disciplines. Persons with a strong background in mathematical sciences have access to a broad range of rewarding opportunities. Within the B.A. program, the Department of Mathematics and Statistics offers areas of concentration, majors and minors, both in Mathematics and Statistics. The Mathematics programs are designed to provide considerable flexibility for students to pursue their own interests, whether they be in the concepts of "pure" mathematics or techniques and applications. As a result, these programs open up opportunities for careers in many sectors such as business, education, government, industry, or medicine.

Area of Concentration (General Program)

A minimum of 5.00 Mathematics credits is required, including:

- 4.00 credits in Mathematics, including at least 1.00 from courses at the 3000 level or above
- 1.00 additional credits from Mathematics, Statistics and/or Computing Science

Honours Programs

Students without MHF4U Advanced Functions and/or MCV4U Calculus and Vectors should consult with the department advisor.

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. Of the minimum of 20.00 credits required to complete an Honours BA degree, at least the following 9.50 credits must be completed for the Mathematics Major:

CIS*1500	[0.50]	Introduction to Programming
MATH*1200	[0.50]	Calculus I
MATH*1210	[0.50]	Calculus II
MATH*2000	[0.50]	Set Theory
MATH*2130	[0.50]	Numerical Methods
MATH*2160	[0.50]	Linear Algebra I
MATH*2170	[0.50]	Differential Equations I

MATH*2200	[0.50]	Advanced Calculus I
MATH*2210	[0.50]	Advanced Calculus II
MATH*3100	[0.50]	Differential Equations II
MATH*3130	[0.50]	Abstract Algebra
MATH*3160	[0.50]	Linear Algebra II
MATH*3200	[0.50]	Real Analysis
MATH*3260	[0.50]	Complex Analysis
STAT*2040	[0.50]	Statistics I

0.50 additional credits in MATH or STAT at the 3000 level or above.

1.50 additional credits in MATH at the 4000 level (0.50 of which may include STAT*4340).

Recommended Schedule of Studies for Major (Honours Program)

Semester 1

CIS*1500	[0.50]	Introduction to Programming
MATH*1200	[0.50]	Calculus I

1.50 credits selected from the College of Arts and the College of Social and Applied Human Sciences*

Semester 2

MATH*1210	[0.50]	Calculus II
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0.50 credits selected from the College of Arts and the College of Social and Applied Human Sciences*

2.00 electives** (PHIL*2110 and CIS*2500 are recommended in Semester 2 or Semester 4).

Semester 3

MATH*2000	[0.50]	Set Theory
MATH*2160	[0.50]	Linear Algebra I
MATH*2200	[0.50]	Advanced Calculus I
STAT*2040	[0.50]	Statistics I

0.50 electives

Semester 4

MATH*2130	[0.50]	Numerical Methods
MATH*2170	[0.50]	Differential Equations I
MATH*2210	[0.50]	Advanced Calculus II

One of:

MATH*3160	[0.50]	Linear Algebra II
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0.50 electives

0.50 electives

Semester 5

MATH*3100	[0.50]	Differential Equations II
MATH*3200	[0.50]	Real Analysis
MATH*3130	[0.50]	Abstract Algebra

1.00 electives***

Note: Students are encouraged to take STAT*3100 or STAT*3240. Students who wish to take STAT*4340 in Semester 8 should take STAT*3100 in Semester 5, STAT*3110 in Semester 6 and STAT*3240 in Semester 5 or 7.

Semester 6

MATH*3160	[0.50]	Linear Algebra II
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(If not taken earlier; otherwise 0.50 electives)

MATH*3260	[0.50]	Complex Analysis
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1.50 electives***

Semester 7

2.50 electives***

Semester 8

2.50 electives***

*These courses should be chosen from the list of Semester 1 requirements as listed in the Program Regulations for the BA.

**Students are reminded that they must meet the BA distribution requirements of 1.50 credits in the humanities and 1.50 credits in the social sciences.

***These electives must include at least 0.50 credits in MATH or STAT at 3000 level or above, and at least 1.50 credits at the 4000 level in MATH (which may include STAT*4340).

Minor (Honours Program)

A total of 5.00 credits is required to complete the Minor including:

2.50 credits from (MATH*1080 or MATH*1200), (MATH*1210 or MATH*2080), MATH*2000, (MATH*2150 or MATH*2160), MATH*2200

0.50 STAT credits at the 2000 level or above

2.00 additional Mathematics credits at the 2000 level or above, including 1.50 credits at the 3000 or 4000 level

Museum Studies (MS)

School of Fine Art and Music

The Minor program in Museum Studies offers an introduction to museum culture from both theoretical and practical perspectives. Courses in the program cover the history of museums, examination of assumptions that have guided the collecting and classifying of visual culture, and consideration of how these institutions serve the needs of national and group identity construction.

This program of study is designed as a complement to a significant number of Major specializations, suitable for any student wishing to broaden their knowledge beyond their Major area of study.

Minor (Honours Program)

(May not be taken in combination with Art History Honours Major).

A minimum of 5.00 credits is required, including:

- | | | |
|-----------|--------|---------------------------|
| ARTH*1220 | [0.50] | The Visual Arts Today |
| ARTH*1510 | [0.50] | Art Historical Studies I |
| ARTH*1520 | [0.50] | Art Historical Studies II |
- 3.50 additional credits in Art History including:

ARTH*2120	[0.50]	Introduction to Museology
ARTH*2480	[0.50]	Introduction to Art Theory and Criticism
ARTH*3220	[0.50]	Nationalism & Identity in Art
ARTH*3330	[0.50]	Display: Visual Culture in Western Europe
ARTH*4620	[0.50]	Museum Studies

Music (MUSC)

School of Fine Art and Music, College of Arts

The School offers courses in music history, theory, ethnomusicology, and performance. Many courses are open to all students, while others require knowledge of the rudiments of musical notation or other prerequisites. Students are urged to plan their program in consultation with a Music advisor. Music programs allow considerable flexibility for students to elect one or more areas of interest, such as individual study on an instrument, performing in vocal or instrumental ensembles, specialized historical or theoretical study, directed readings, or an independent project. Physics of Music (PHYS*1810) is strongly recommended for all Music students and will count as one of the courses for the B.A. math/science requirement.

Courses in Music are offered in several of the semesters abroad, especially London. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements.

Applied Music

MUSC*1500 is available only by audition. MUSC*1500 is restricted to students in Semesters 1-4 who are enrolled in a Music program: general program, area of concentration; honours program, major or minor. Students enrolled in a Music program, honours major, may audition for MUSC*1500 beyond the fourth semester.

Applied Music courses are designed to be taken during successive Fall and Winter terms. If this sequence is interrupted for more than one semester, students may be required to reapply (re-audition) before registering to continue in Applied Music. Students must achieve a minimum grade 70% in Applied Music courses in order to proceed to the next level.

Applied Composition

Private instruction is offered in music composition. In order to register in Applied Composition (MUSC*2410), students must submit a portfolio of compositions (scores and recordings) to the School of Fine Art and Music at the time of course selection. Interviews are held prior to the first day of classes each semester (see School of Fine Art and Music for interview schedule). In order to enrol in Applied Composition, students must be registered in a Music program: Area of Concentration (General Program), Major or Minor (Honours Program). Applied Composition courses are designed to be taken during successive Fall and Winter terms. If this sequence is interrupted for more than one semester, students may be required to reapply before registering to continue in Applied Composition. Students must achieve a minimum grade of 70% in Applied Composition courses in order to proceed to the next level.

Core Requirements

The Music core is designed to provide the concepts and skills students need for successful study in higher level courses. All students in honours program major must complete the following courses:

MUSC*1060	[0.50]	“Classical” Music: Context and Codes
MUSC*1180	[0.50]	Musicianship I
MUSC*2100	[0.50]	Creating Music on the Computer
MUSC*2140	[0.50]	History of Jazz
MUSC*2150	[0.50]	Music and Popular Culture
MUSC*2180	[0.50]	Musicianship II
MUSC*2270	[0.50]	World Music
MUSC*2330	[0.50]	Genre and Style in Western Art Music
MUSC*2660	[0.50]	Materials of Music I
MUSC*2670	[0.50]	Materials of Music II
MUSC*3630	[0.50]	20th Century Music

Note: MUSC*1130 does not count toward either the Major (Honours), Minor (Honours), or Area of Concentration (General Program).

Area of Concentration (General Program)

A minimum of 6.00 Music credits is required, including:

- MUSC*1060, MUSC*1180, MUSC*2180, MUSC*2330, MUSC*2660, MUSC*2670,(3.00 credits)
- 1.50 credits from MUSC*2100, MUSC*2140, MUSC*2150, MUSC*2270, MUSC*3630
- at least 1.00 Music credits at the 3000 level or above (excluding MUSC*3630)
- two of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560.

Major (Honours Program)

A minimum of 9.00 Music credits is required, including:

- the Music core (5.50 credits)
- two of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560.
- MUSC*4401/2 or MUSC*4450
- 2.00 additional credits of upper-level topics courses (MUSC*3730, MUSC*3740, MUSC*3800, MUSC*3820, MUSC*3860, MUSC*3880)

Participation in Applied Music courses is strongly recommended for all honours students. Students contemplating graduate studies in Music should consult music faculty early in their program.

Minor (Honours Program)

A minimum of 5.00 Music credits is required, including MUSC*1180 and at least 2.00 Music credits at the 3000 or 4000 level. Students should be aware that courses at the 3000 or 4000 level may require additional prerequisites.

Honours students considering graduate work in ethnomusicology, performance, theory, and other music specializations should consult a faculty advisor early in their program. Students should take courses covering a broad range of historical periods and methodologies, and also consider courses in Humanities (HUMN), dramatic theory, art history, anthropology, and English literature. A reading knowledge of at least one language other than English is also recommended.

Philosophy (PHIL)**Department of Philosophy, College of Arts**

The Department of Philosophy offers programs emphasizing the history of philosophy and the study of metaphysics, epistemology, ethics and logic. The requirements for the various Philosophy programs are designed to ensure a basic competence in the discipline while permitting varying degrees of flexibility. It is important that students discuss their programs with a departmental advisor in order to ensure that the best selection of elective Philosophy courses is made. This is especially important for students who are contemplating graduate work in Philosophy.

Students may take PHIL*1000, PHIL*1010 and PHIL*1050 but only one may be counted towards the minimum number of Philosophy courses required for a degree.

Area of Concentration (General Program)

A minimum of 5.00 credits in Philosophy is required, including:

- 1 of PHIL*2140, PHIL*2160, PHIL*2170, PHIL*3060, PHIL*3080, PHIL*3130, PHIL*3200, PHIL*3280
- 1 of PHIL*2110, PHIL*2130, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3420, PHIL*3450, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4360, PHIL*4370, PSYC*3280
- 1 of PHIL*2030, PHIL*2060, PHIL*2070, PHIL*2120, PHIL*2600, PHIL*3040, PHIL*3050, PHIL*3230, PHIL*4040, PHIL*4060, PHIL*4310, PHIL*4340
- 3.50 additional credits in Philosophy

Note: Students must have at least 1.50 Philosophy credits at the 3000 or 4000 level.

The Department of Philosophy also offers a Minor in Ethics in the Life Sciences (Honours Program)

This program draws together critical and foundational analysis of the sciences (scientific method and concepts) with the philosophical disciplines of pure and applied ethics.

For more information, please see the program listing for Ethics in the Life Sciences (ELS).

Major (Honours Program)

A minimum of 8.50 credits is required, including:

- PHIL*2110, PHIL*2120, PHIL*2140, PHIL*2160, PHIL*3080
- 2 of PHIL*2170, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3450, PHIL*4360, PHIL*4370, PSYC*3280
- 2 of PHIL*2060, PHIL*3050, PHIL*3230, PHIL*4310, PHIL*4340
- 2 of PHIL*2030, PHIL*2070, PHIL*2130, PHIL*2600, PHIL*3130, PHIL*3200, PHIL*3280, PHIL*3420, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4040, PHIL*4060
- 3.00 additional credits in Philosophy

Note: Students must have at least 3.50 credits in Philosophy at the 3000 level or above, and at least 1.50 of these at the 4000 level.

Students planning to do graduate studies in philosophy should take PHIL*2110, PHIL*2120, PHIL*2140, PHIL*3080, PHIL*3130, PHIL*3200, (PHIL*4500 and/or PHIL*4550), PHIL*4800.

Minor (Honours Program)

A minimum of 5.00 credits in Philosophy is required, including:

- 1 of PHIL*2140, PHIL*2160, PHIL*2170, PHIL*3060, PHIL*3080
- 1 of PHIL*2110, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3450, PHIL*4360, PHIL*4370, PSYC*3280
- 1 of PHIL*2060, PHIL*2120, PHIL*3050, PHIL*3230, PHIL*4310, PHIL*4340
- 1 of PHIL*2030, PHIL*2070, PHIL*2130, PHIL*2600, PHIL*3130, PHIL*3200, PHIL*3280, PHIL*3420, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4040, PHIL*4060
- 3.00 additional credits in Philosophy

Note: Students must have at least 2.00 credits in Philosophy at the 3000 level or above.

The Department of Philosophy also offers a Minor in Ethics in the Life Sciences (Honours Program).

This program draws together critical and foundational analysis of the sciences (scientific method and concepts) with the philosophical disciplines of pure and applied ethics.

For more information, please see the program listing for Ethics in the Life Sciences (ELS).

Political Science (POLS)**Department of Political Science, College of Social and Applied Human Sciences**

The Department of Political Science offers courses in the following areas: Political Thought; Canadian Politics; Public Policy, Governance, and Law; Comparative Politics; and International Relations and Global Studies. The Department of Political Science also participates in several interdisciplinary programs, including Criminal Justice and Public Policy, International Development Studies, Environmental Governance, and European Studies.

Students taking courses in Political Science may enrol initially in POLS*1150, POLS*1400, POLS*1500, the latter 2 courses providing overview and introductory treatments of particular interest to students who wish to take higher level courses in the department but who do not intend to specialize in the discipline. For students intending to pursue a general or honours specialization in Political Science, however, POLS*1150 is required.

Courses at the 2000 level provide students with essential grounding in specific areas of the discipline and are normally prerequisite for enrolment in 3000 and 4000 level courses. Students in the honours program major are required to take POLS*3180 and POLS*3650. Students in the honours program minor are required to take POLS*3180.

In addition to the requirements set out in the B.A. Program Regulations, the Department of Political Science requires that students pursuing general and honours programs successfully complete a core requirement of 2.50 credits and meet specific distribution requirements as follows:

Core Requirements

- POLS*1150, POLS*2000, POLS*2300
- POLS*2080 or POLS*2100
- POLS*2200 or POLS*2250

Area of Concentration (General Program)

A minimum of 5.00 credits in Political Science is required, including:

- the Political Science core
- 2.50 additional credits, at least 1.50 of which must be at the 3000 level or above

Major (Honours Program)

A minimum of 9.00 credits in Political Science is required, including:

- the Political Science core
- POLS*3180 and POLS*3650
- at least 0.50 credits at the 3000 level in three of the five fields in the department
- 1.50 credits at the 4000 level, two of which may include the POLS*4970/POLS*4980 Honours Thesis **
- an additional 2.50 credits from courses in Political Science

** Students interested in pursuing graduate or professional studies related to Political Science are encouraged to consider taking the POLS*4970/POLS*4980 Honours Thesis sequence. Interested students must obtain instructor consent in order to register for this option.

Minor (Honours Program)

A minimum of 5.00 credits in Political Science is required, including:

- the Political Science core
- POLS*3180
- 0.50 credits at the 4000 level
- 1.50 additional credits from courses in Political Science

Choices for fulfillment of prerequisites for 4000 level courses (see course descriptions for corresponding requirements).

Political Thought

POLS*3230	[0.50]	Modern Political Thought
POLS*3710	[0.50]	Politics and Sexuality

Canadian Politics

POLS*3050	[0.50]	Canadian Political Parties, Elections and Pressure Groups
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3270	[0.50]	Local Government in Ontario
POLS*3470	[0.50]	Business-Government Relations in Canada

Public Policy, Governance and Law

POLS*3130	[0.50]	Law, Politics and Judicial Process
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3250	[0.50]	Public Policy: Challenges and Prospects
POLS*3300	[0.50]	Governing Criminal Justice
POLS*3370	[0.50]	Environmental Politics and Governance
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics
POLS*3470	[0.50]	Business-Government Relations in Canada
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3940	[0.50]	Accountability and Canadian Government

Comparative Politics

POLS*3000	[0.50]	Politics of Africa
POLS*3060	[0.50]	Politics of the Middle East and North Africa
POLS*3080	[0.50]	Politics of Latin America
POLS*3160	[0.50]	Women and Politics in the Third World
POLS*3320	[0.50]	Politics of Aid & Development
POLS*3410	[0.50]	U.S. Politics and Government
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics
POLS*3450	[0.50]	European Governments and Politics
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3890	[0.50]	Government and Politics of India
POLS*3920	[0.50]	Modern China

International Relations and Global Studies

POLS*3070	[0.50]	Comparative Politics of Asia Pacific
POLS*3160	[0.50]	Women and Politics in the Third World
POLS*3320	[0.50]	Politics of Aid & Development
POLS*3330	[0.50]	Politics and Trade Liberalization in the Americas
POLS*3490	[0.50]	Conflict and Conflict Resolution
POLS*3790	[0.50]	The Political Economy of International Relations

The Department of Political Science offers a comprehensive counselling service for students in Political Science. As part of their program, the department also permits students to include 0.50 credits towards the general degree and 1.00 credits towards the honours degree from an approved list of courses offered by other departments.

Students are encouraged to consult with the departmental advisor for either of these programs about course selection, substitution of courses offered by other departments, or other matters.

Psychology (PSYC)**Department of Psychology, College of Social and Applied Human Sciences**

The discipline of Psychology is normally associated with the social sciences, the biological sciences, and the health professions. Specialization in Psychology at Guelph is available as a B.A. honours program major, a B.A. honours program major (co-op), and as an honours specialization in the B.Sc. program (described in the schedule of studies for B.Sc. programs). Through its different undergraduate programs, the Psychology Department attempts to provide a) a broad general education emphasizing psychological theory and methodology, with an empirical basis in course work (e.g. experiments and projects); b) an appropriate background in psychology for those who leave the University with an undergraduate degree to embark on careers in related areas (e.g. social services); and c) a sound preparation for graduate study in psychology. Students intending to apply for admission to graduate programs in Psychology are advised to refer to the Graduate Studies Advisory Note.

A cumulative average of at least 70% in all course attempts in Psychology is required to enter or continue in the Honours Psychology program major in semesters 4, 5, 6, 7, and 8.

Minors

Students interested in a Minor in Psychology should examine the schedule of studies for the Minors in Psychology. The department does not offer Psychology as an Area of Concentration in the General BA Program.

Note on Honours Courses

Courses designated with (H) are designed for students in a psychology honours specialization. This includes B.A. Honours Psychology (PYSC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (PBC), major or minor, and the Neuroscience (NEUR) minor. (H) courses are Honours level requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the ISHB major, NEUR minor, or PBC major or minor. Unless otherwise specified, all other courses may be taken by students in a general or honours program, providing the prerequisites are met.

Core Courses

Students must complete at least 3.00 credits (2.00 credits for the PSYC minor) of the following 2000-level Psychology courses. Psychology students are advised that they are normally expected to complete at least four 2000 level Psychology core courses prior to attempting any 3000 level Psychology courses.

PSYC*2310	[0.50]	Introduction to Social Psychology
PSYC*2330	[0.50]	Principles of Learning
PSYC*2390	[0.50]	Principles of Sensation and Perception
PSYC*2410	[0.50]	Behavioural Neuroscience I
PSYC*2450	[0.50]	Introduction to Developmental Psychology
PSYC*2650	[0.50]	Cognitive Psychology
PSYC*2740	[0.50]	Personality

Major (Honours Program)

A minimum of 9.00 credits in Psychology is required, including (see notes below):

PSYC*1100	[0.50]	Principles of Behaviour
PSYC*1200	[0.50]	Dynamics of Behaviour
6 of the 2000 level Psychology core courses listed above		
PSYC*2010	[0.50]	Quantification in Psychology
PSYC*2040	[0.50]	Research Statistics
PSYC*2360	[0.50]	Introductory Research Methods
PSYC*3250	[0.50]	Psychological Measurement

1.50 additional Psychology credits at the 3000 level or above (see Graduate Studies Advisory Note).

1.50 additional psychology credits at the 4000 level (See Graduate Studies Advisory Note).

Notes:

1. PSYC*2010 should normally be completed by the end of semester 3
2. PSYC*2360 should normally be completed by the end of semester 4
3. PSYC*2040 SHOULD NORMALLY BE COMPLETED BY THE END OF SEMESTER 4.

Note: The regulations of the B.A. program state that 7.00 credits must be taken at the 3000 level or above (see B.A. Program Regulations).

With permission of the Psychology Department PRIOR to course selection, up to 1.00 non-psychology credits that would enhance the student's studies in Psychology, especially in preparation for post-graduate work, may be credited towards the total number of credits required for graduation in the honours program major in Psychology.

Graduate Studies Advisory Note: Most graduate programs require the student to have at least a B+ average in order to be considered for admission. Students contemplating graduate work in Psychology are strongly advised to complete the major by completing 0.50 elective credits at the 3000 level or above and 0.50 elective credits at the 4000 level beyond PSYC*4870 and PSYC*4880 (the Honours Thesis courses) which would otherwise satisfy the 3000-4000 level elective requirement for the major.

These students are encouraged to complete the Psychology major as follows:

- a. PSYC*1100 and PSYC*1200
- b. 6 of the 2000 level Psychology core courses
- c. PSYC*2010 and PSYC*2040
- d. PSYC*2360 and PSYC*3370 and PSYC*3380
- e. an additional 0.50 credits in Psychology at the 3000 level or above
- f. PSYC*3250
- g. PSYC*4370 or PSYC*4900
- h. 0.50 electives at the 4000 level
- i. PSYC*4870 plus PSYC*4880

Students should note that the Honours Thesis courses are normally taken in a Fall-Winter sequence worth the equivalent of 1.50 credits toward the 20.00 credits Honours B.A. degree requirements.

Minor (Honours Program)

(May not be taken in combination with a Psychology Honours Major)

A minimum of 6.00 credits is required including:

PSYC*1100	[0.50]	Principles of Behaviour
PSYC*1200	[0.50]	Dynamics of Behaviour
PSYC*2010	[0.50]	Quantification in Psychology
PSYC*2360	[0.50]	Introductory Research Methods

2.00 credits in the 2000 level Psychology core courses listed above

2.00 credits in Psychology at the 3000/4000 level

Note: Courses designated with (H) in Section XII—Course Descriptions, are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

Psychology (Co-op) (PSYC:C)

Department of Psychology, College of Social and Applied Human Sciences

Co-operative Education formally integrates the student's academic study with 3 work terms (COOP*1000, COOP*2000, COOP*3000) in co-operating employer organizations. The Co-op program is offered as a B.A. honours program major degree taken as one of two major options combined with 3 work terms. One of the options is recommended for Co-op students expecting to apply for admission to graduate studies in Psychology. (See Graduate Advisory Note.)

All Co-op students are strongly advised to complete the B.A. requirements by including in their program 3 or more courses from the listing of courses under Business Administration, to ensure that they have 1 or more courses in computer science, accounting and management, or organizational behaviour. (Business Administration is also available as a minor.) Although not required, Co-op students are strongly encouraged to select a minor as part of the program.

Depending on career aspirations, students should have a good working knowledge of one or more of the following before their first work semester: psychological measurement, quantitative methods, computer science, accounting and management, or organizational behaviour.

The first work term normally follows 3 or 4 semesters of academic study (see Section X-Co-operative Education Programs). Students must be eligible to continue in the Honours Psychology program in order to remain in the Co-op program.

Admission to the Co-op program is limited and will be based on academic background. Admission will normally be considered only at semester 1 entry or during semester 2 when the student selects courses for semester 3.

Courses designated with (H) are designed for students in a psychology honours specialization. This includes B.A. Honours Psychology (PYSC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (PBC), major or minor, and the Neuroscience (NEUR) minor. (H) courses are Honours level requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the ISHB major, NEUR minor, or PBC major or minor. Unless otherwise specified, all other courses may be taken by students in a general or honours program, providing the prerequisites are met.

Major (Honours Program) - Stream A

The following Co-op schedule of studies is for students not intending to apply for admission to graduate programs in Psychology (includes 3 work terms).

Note: When selecting core and elective credits the student should keep in mind the prerequisites for their desired 3000 and 4000 level courses. When selecting courses beyond Psychology the student should keep in mind both their second specialization and courses appropriate for potential work-term placements.

Semester 1 - Fall

PSYC*1100 [0.50] Principles of Behaviour
PSYC*1200 [0.50] Dynamics of Behaviour

1.50 electives*

Semester 2 - Winter

COOP*1100 [0.00] Introduction to Co-operative Education
PSYC*2010 [0.50] Quantification in Psychology

0.50 Psychology core***

1.50 electives*

Summer Semester

Optional, however completion of some semester 3 requirements NOW would allow for additional flexibility in the scheduling of future work terms (see also Stream B for students intending to apply for graduate programs).

Semester 3 - Fall

PSYC*2040 [0.50] Research Statistics

1.50 Psychology core***

0.50 electives*

Winter Semester

COOP*1000 [0.00] Co-op Work Term I

Semester 4 - Summer

1.00 Psychology core

1.50 electives****

Fall Semester

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter

PSYC*2360 [0.50] Introductory Research Methods

PSYC*3250 [0.50] Psychological Measurement

0.50 Psychology credits at the 3000 or 4000 level**

1.00 electives

Summer Semester

COOP*3000 [0.00] Co-op Work Term III

PSYC*4910 [0.50] Co-operative Education Project I

Semester 6 - Fall

1.00 Psychology electives at the 3000 or 4000 level**

1.50 electives

Semester 7 - Winter

1.00 Psychology electives at the 3000 or 4000 level**

1.50 electives

Semester 8 - Summer*****

2.00 electives

* B.A. distribution requirements should be satisfied within the first 4 semesters

** at least two of these Psychology courses must be at the 4000 level

*** see Semester 4 requirements as not all core courses are available in the Summer Semester

**** PSYC*2310 and PSYC*2740 are normally available in the Summer Semester

***** the schedule for COOP*3000 and semester 8 requirements can be exchanged

Major (Honours Program) - Stream B

The following Co-op schedule of studies is recommended for those students intending to apply for graduate work in Psychology (includes 3 work terms and 18 Psychology courses).

Semester 1 - Fall

PSYC*1100 [0.50] Principles of Behaviour

PSYC*1200 [0.50] Dynamics of Behaviour

1.50 electives*

Semester 2 - Winter

COOP*1100 [0.00] Introduction to Co-operative Education

PSYC*2010 [0.50] Quantification in Psychology

1.00 Psychology core (other than PSYC*2310 or PSYC*2740)

1.00 electives*

Semester 3 - Summer

PSYC*2310 [0.50] Introduction to Social Psychology

PSYC*2740 [0.50] Personality

1.50 electives*

Semester 4 - Fall

PSYC*2360 [0.50] Introductory Research Methods

PSYC*2040 [0.50] Research Statistics

1.00 Psychology core

0.50 electives*

Winter Semester

COOP*1000 [0.00] Co-op Work Term I

Summer Semester

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Fall

PSYC*3370 [0.50] Experimental Design and Analysis

2.00 electives*

Semester 6 - Winter

PSYC*3250 [0.50] Psychological Measurement

PSYC*3380 [0.50] Non-experimental Research Methods

1.50 electives*

Summer Semester

Optional

Fall Semester**

COOP*3000 [0.00] Co-op Work Term III

Semester 7 - Winter**

PSYC*4870 [0.50] Honours Thesis I

2.00 electives*

Semester 8 - Summer

PSYC*4880 [1.00] Honours Thesis II

1.50 electives*

*at least 1.00 of the elective credits in semester 5, 6, 7, or 8 must be a 3000 level or above Psychology elective (and include either PSYC*4370 or PSYC*4900). The total of electives should include the B.A. program distribution requirements and the completion of the total number of credits required at the 3000 level or above required by the B.A. degree.

**the schedule for COOP*3000 and semester 7 requirements can be exchanged

Sociology (SOC)

Department of Sociology and Anthropology, College of Social and Applied Human Sciences

The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*. The departmental category of courses recognizes the fact that the disciplines of sociology and sociocultural anthropology have developed in tandem and it is possible to identify large areas of overlap and convergence in the work of practitioners both historically and in the present. Departmental courses include most of the core theory and methods courses as well as many elective courses. They contribute equally to the subject matter of sociology as well as the subject matter of sociocultural anthropology for purposes of the undergraduate programs of study in both disciplines. Please see the listings for all courses required for the Sociology program.

Note: the following courses may be used towards a sociology specialization:

FRHD*3060	[0.50]	Principles of Social Gerontology
ISS*2990	[0.50]	Introduction to Marx
PHIL*2180	[0.50]	Philosophy of Science

Courses will normally be offered in the semesters designated. For information on other semesters these courses will be offered and the semester those courses without designations will be offered, please check with the department. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work. Please note, a student is allowed a total of 1.00 credits only for reading courses.

SOAN courses will be used towards the Sociology specializations.

Area of Concentration (General Program)

A minimum of 5.00 credits in Sociology and Anthropology is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
SOAN*2111/2	[1.00]	Classical Theory
SOAN*2120	[0.50]	Introductory Methods
SOC*1100	[0.50]	Sociology

2.50 additional credits in SOC and SOAN courses, including at least 1.00 credits at the 3000 level

Major (Honours Program)

A minimum of 8.00 credits in Sociology and Anthropology is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
SOAN*2111/2	[1.00]	Classical Theory
SOAN*2120	[0.50]	Introductory Methods
SOAN*3070	[0.50]	Qualitative and Observational Methods
SOAN*3120	[0.50]	Quantitative Methods
SOC*1100	[0.50]	Sociology
SOC*3310	[0.50]	Contemporary Theory

4.00 additional credits in SOC and SOAN courses, including at least 1.50 credits at the 4000 level

The following courses may be used toward a sociology specialization:

FRHD*3060	[0.50]	Principles of Social Gerontology
ISS*2990	[0.50]	Introduction to Marx
PHIL*2180	[0.50]	Philosophy of Science

Minor (Honours Program)

A minimum of 5.00 credits in Sociology and Anthropology is required, including:

ANTH*1150	[0.50]	Introduction to Anthropology
SOAN*2111/2	[1.00]	Classical Theory
SOAN*2120	[0.50]	Introductory Methods
SOC*1100	[0.50]	Sociology

2.50 additional credits in SOC and SOAN courses, including at least 1.00 credits at the 3000 level or above

The following courses may be used toward a sociology specialization:

FRHD*3060	[0.50]	Principles of Social Gerontology
ISS*2990	[0.50]	Introduction to Marx
PHIL*2180	[0.50]	Philosophy of Science

Statistics (STAT)

Department of Mathematics and Statistics, College of Physical and Engineering Science

The discipline of Statistics is essential in the social sciences, biological sciences, physical sciences, and health professions. The specialization in Statistics emphasizes applications of statistical theory and methods to other disciplines and is available in the B.A. Honours Program as a major or minor and as an area of concentration in the General Program.

Students are encouraged to combine the study of statistics with another field.

Statistical computing is a fundamental tool for the application of modern statistical methods. Students in these programs will develop skills in computer applications programming using such high-level languages as SAS and S-PLUS.

Area of Concentration (General Program)

A minimum of 5.00 credits in Statistics and Mathematics is required, including:

- no more than 1.00 credits from courses at the 1000 level
- 3.00 credits in statistics (STAT), 2.00 of which must be from courses at the 3000 level or above

Recommended Courses

MATH*1200	[0.50]	Calculus I
MATH*1210	[0.50]	Calculus II
MATH*2150	[0.50]	Applied Matrix Algebra
STAT*2040	[0.50]	Statistics I
STAT*2050	[0.50]	Statistics II
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications

Honours Programs

Students who major or minor in Statistics may not receive credit for the following courses unless taken to satisfy the requirements of another program: ECON*2740, PSYC*2010, PSYC*3320, SOAN*3120.

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits is required to complete the degree, with a minimum of 9.50 credits required as below to complete the major.

1.50 credits as follows:

CIS*1500	[0.50]	Introduction to Programming
MATH*1200	[0.50]	Calculus I
MATH*1210	[0.50]	Calculus II

5.00 credits in Statistics and Mathematics as follows:

MATH*2130	[0.50]	Numerical Methods
MATH*2200	[0.50]	Advanced Calculus I
STAT*2040	[0.50]	Statistics I
STAT*2050	[0.50]	Statistics II
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3210	[0.50]	Experimental Design
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications

One of:

MATH*2150	[0.50]	Applied Matrix Algebra
MATH*2160	[0.50]	Linear Algebra I

2.50 credits in Statistics at the 3000 or 4000 level, of which at least 2.00 credits must be at the 4000 level.

0.50 credits in Mathematics or Statistics at the 2000-level or above.

Recommended Schedule of Studies for Major (Honours Program)

Semester 1

MATH*1200	[0.50]	Calculus I
2.00 electives*		

Semester 2

CIS*1500	[0.50]	Introduction to Programming
MATH*1210	[0.50]	Calculus II
1.50 electives		

Semester 3

MATH*2200	[0.50]	Advanced Calculus I
STAT*2040	[0.50]	Statistics I

One of:

MATH*2150	[0.50]	Applied Matrix Algebra
MATH*2160	[0.50]	Linear Algebra I

1.00 electives**

Semester 4

MATH*2130	[0.50]	Numerical Methods
STAT*2050	[0.50]	Statistics II

1.50 electives**

Semester 5

STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications

1.00 electives**

Semester 6

STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3210	[0.50]	Experimental Design

1.50 electives**

Semester 7

2.50 electives**

Semester 8

2.50 electives**

* See "Semester One Requirements" for Bachelor of Arts programs.

**Electives must satisfy the following requirements:

1. Electives must include at least 2.50 credits in Statistics at the 3000 or 4000 level, and an additional 0.50 credits in Statistics or Mathematics at the 2000 level or above.
2. At least 2.00 credits in Statistics must be at the 4000 level.
3. Electives plus core courses must include at least 7.00 credits at the 3000 or 4000 level.

Minor (Honours Program)

At least 5.00 credits in Statistics or Mathematics is required, including:

MATH*1200	[0.50]	Calculus I
MATH*1210	[0.50]	Calculus II
STAT*2040	[0.50]	Statistics I
STAT*2050	[0.50]	Statistics II
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3240	[0.50]	Applied Regression Analysis

One of:

MATH*2150	[0.50]	Applied Matrix Algebra
MATH*2160	[0.50]	Linear Algebra I

0.50 additional credits in Statistics

0.50 additional credits in Statistics or Mathematics

Studio Art (SART)

School of Fine Art and Music, College of Arts

The School offers programs that allow for concentrated study in Art History or in Studio Art, or a combination of the two disciplines.

The Studio Art program provides a thorough grounding in contemporary art practice, art history, theory, and criticism. Courses are offered in drawing, painting, photography, printmaking, sculpture, computer graphics, and extended practices. Studio Art majors and minors must also take a selection of courses in art history. Specific requirements are listed below.

Cost of Studio Supplies

The majority of the cost of supplies must be borne by the student. In order to permit the University to subsidize this cost and to allow for savings through discount buying, some materials are obtained through the school by payment of a lab fee. The amount of the fee is established for each semester prior to registration.

Student Counselling

Students who elect to take a substantial number of credits in Studio Art with the objective of graduate work are advised to obtain counseling from their academic advisor regarding their choices. However, in general, it is important to know that graduate studies in Studio Art normally require an in-depth knowledge of traditional and contemporary media, as well as a significant awareness of contemporary art history and theory. Students are encouraged to take electives in other disciplines from across the University to inform their Studio Art practice. Cognate electives in other disciplines in the College of Arts, such as Philosophy, History, and English will almost certainly prove an asset.

Core Requirements

ARTH*1220	[0.50]	The Visual Arts Today
ARTH*1520	[0.50]	Art Historical Studies II
SART*1050	[0.50]	Foundation Studio
SART*1060	[0.50]	Core Studio

Major (Honours Program)

A minimum of 9.00 credits is required, including:

- a. the Studio Art core
- b. 2.00 additional credits in Studio Art, including at least 0.50 credits from List A and 0.50 from List B
- c. 2.00 additional credits in Art History including at least 0.50 credits at the 3000 level or above
- d. 3.00 additional credits in Studio Art including 1.50 credits at the 4000-level

Minor (Honours Program)

A minimum of 6.00 credits is required, including:

- a. the Studio Art core
- b. 0.50 credits in Studio Art or Art History at the 4000 level
- c. 1.50 additional credits in Art History including at least 0.50 credits at the 3000 level or above
- d. 2.00 additional credits in Studio Art, including 0.50 credits from List A and 0.50 from List B

List A

SART*2090	[0.50]	Drawing I
SART*2200	[0.50]	Painting I
SART*2460	[0.50]	Introductory Printmaking I
SART*2470	[0.50]	Introductory Printmaking II
SART*2610	[0.50]	Photography I
SART*2700	[0.50]	Introduction to Computer Graphics

SART*2710	[0.50]	Drawing Graphics on the Computer
SART*3090	[0.50]	Drawing II
SART*3200	[0.50]	Painting II
SART*3410	[0.50]	Intaglio
SART*3450	[0.50]	Lithography
SART*3470	[0.50]	Photo-Printmaking
SART*3480	[0.50]	Web Development and Design
SART*3600	[0.50]	Digital & Non-Silver Photography
SART*3750	[0.50]	Photography II
SART*4090	[0.50]	Drawing III
SART*4130	[1.00]	Drawing IV
SART*4200	[0.50]	Painting III
SART*4230	[0.50]	Special Topics in Painting
SART*4240	[1.00]	Painting IV
SART*4410	[0.50]	Experimental Printmaking
SART*4470	[1.00]	Advanced Printmaking
SART*4700	[0.50]	Photography III
SART*4720	[1.00]	Photography IV
SART*4890	[1.00]	Interactive Multimedia

List B

SART*2300	[0.50]	Sculpture I
SART*2800	[0.50]	Extended Practices I
SART*3300	[0.50]	Sculpture II
SART*3770	[0.50]	Extended Practices II
SART*4300	[0.50]	Sculpture III
SART*4330	[1.00]	Senior Sculpture
SART*4660	[0.50]	Topics in Extended Practices
SART*4670	[0.50]	Topics in Extended Practices
SART*4800	[0.50]	Special Topics in Sculpture
SART*4810	[0.50]	Extended Practices III
SART*4870	[0.50]	Special Topics in Sculpture
SART*4880	[1.00]	Extended Practices IV

Notes:

1. In accordance with the B.A. program regulation limiting the number of credits to be taken in any subject area, OCAD graduates granted the maximum advanced standing of credits in Studio Arts will be limited to 2.00 additional credits in Studio Arts at the University of Guelph.
2. A cumulative average of at least 70% in all course attempts in Studio Arts and Art History is required in order to enter or continue in the Honours Studio Arts program.
3. Students in SART can fulfill one of the natural and mathematical sciences B.A. distribution requirements with HK*2100. This credit cannot be used towards the SART major.

Theatre Studies (THST)

School of English and Theatre Studies, College of Arts

The Theatre Studies program is a component of a liberal education, and is dedicated to integrating academic study and theatre practice. The program offers introductory and advanced courses in dramatic literature, theatre history, criticism and theory, together with directing, acting, design, technical theatre, playwriting, and media studies.

The program has a special interest in the drama and theatre of Canada. Course offerings reflect this interest where appropriate.

Notes:

1. A maximum of 2.00 credits in Directed Readings or Special Studies Courses (THST*3410, THST*3420, THST*3600, DRMA*3610) is allowed in the honours program major. A maximum of 1.00 credits in such courses is allowed in honours program minor or the general program area of concentration. Students will normally be permitted to take only 0.50 credits in Directed Readings or Special Studies courses per semester.
Certain approved Dramatic Literature courses from the English Program within the School of English and Theatre Studies or other departments may be counted towards a degree in Theatre Studies. A list of approved courses may be obtained from the School's website: <http://www.arts.uoguelph.ca/sets/>.
2. In connection with THST*1040 and some upper-level courses, students are required as part of the course to attend various specified theatre performances in cities such as Toronto, Stratford, Niagara-on-the-Lake, and London. A special fee is charged for travel to these performances and students will be notified during the first week of classes of the amount of this fee and the dates of the performances.
3. In any given semester, a student may not enroll in more than ONE production-related course at a time. These include: THST*2230, THST*3110, THST*3120, THST*3220, THST*3230, THST*3410, THST*3420, THST*4090, THST*4250, THST*4280.

Area of Concentration (General Program)

A minimum of 5.00 credits in Theatre Studies is required, including:

- a. THST*1040, THST*2010, THST*2230, THST*3550, THST*3850
- b. at least one of THST*2080, THST*2120, THST*2240

- c. at least one of ENGL*3420, THST*3650, THST*3660
- d. 1.50 other credits in Theatre Studies

Major (Honours Program)

A minimum of 9.00 credits in Theatre Studies is required, including:

- a. THST*1040, THST*1150, THST*2010, THST*2230, THST*3550, THST*3850, THST*4280
- b. two of THST*2080, THST*2120, THST*2240
- c. at least one of ENGL*3420, THST*3650, THST*3660
- d. at least one of THST*4320 or THST*4330
- e. 2.50 other credits in Theatre Studies

Minor (Honours Program)

A minimum of 5.00 credits in Theatre Studies is required, including :

- a. THST*1040, THST*2010, THST*2230, THST*3550, THST*3850
- b. at least one of THST*2080, THST*2120, THST*2240
- c. at least one of ENGL*3420, THST*3650, THST*3660
- d. 1.50 other credits in Theatre Studies

Visual Arts of the Americas (VAA)

School of Fine Art and Music

The Minor program in Visual Arts of the Americas enables students to study the art history of Canada, the United States, and Central and South America as an integrated field where certain basic conditions are shared: the existence of aboriginal traditions persisting from the pre-conquest period, the confrontation of a variety of European, African and Asian cultural heritages, and a continuing post-colonial evolution producing hybrid cultural identities.

This program of study is designed as a complement to a significant number of Major specialization, suitable for any student wishing to broaden their knowledge beyond their Major area of study.

Minor (Honours Program)

(May not be taken in combination with Art History Honours Major).

A minimum of 5.00 credits is required, including:

- a. ARTH*1220 [0.50] The Visual Arts Today
- ARTH*1510 [0.50] Art Historical Studies I
- ARTH*1520 [0.50] Art Historical Studies II
- b. 3.50 additional credits in Art History as follows:
 - ARTH*2480 [0.50] Introduction to Art Theory and Criticism
 - Two of:
 - ARTH*2050 [0.50] Modern Latin American Art
 - ARTH*2060 [0.50] Aboriginal Arts in the Americas
 - ARTH*2070 [0.50] Art of the USA
 - ARTH*2490 [0.50] History of Canadian Art
 - Two of:
 - ARTH*3010 [0.50] Contemporary Canadian Art
 - ARTH*3050 [0.50] Pre-Columbian Art
 - ARTH*3060 [0.50] Public Art
 - One of:
 - ARTH*4310 [1.00] Topics in Art & Visual Culture I
 - ARTH*4320 [1.00] Topics in Art & Visual Culture II