## 2009-2010 Undergraduate Calendar

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2009-2010 academic year, including the Summer Semester 2009, the Fall Semester 2009 and the Winter Semester 2010.
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.
The University is a full member of:

- The Association of Universities and Colleges of Canada

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## Disclaimer

## University of Guelph 2009

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2009-2010 academic year, including the Summer Semester 2009, the Fall Semester 2009 and the Winter Semester 2010.
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 and Sciences (B.A.S.)

The University of Guelph offers an 8 semester (20.00 credits) honours program leading to a Bachelor of Arts and Sciences (B.A.S.) degree.
The Bachelor of Arts \& Sciences program is designed for students who are motivated equally by the study of Arts/Social Sciences and the Sciences, and who find challenge and satisfaction in testing the traditional boundaries of study through undergraduate level interdisciplinary work. The program meets these objectives through a unique structure that accredits students in an Arts/Social Sciences core, a Sciences core, a Subject Area core of interdisciplinary humanities and sciences courses (ASCI*), and a minor in each of the Arts/Social Sciences and the Sciences (see below for choices of minors). The structure of the program ensures disciplinary rigour and breadth through completion of core requirements for a B.A.S. degree, concentration in two distinct minors, and concentration of learning in an academic cohort of B.A.S. students through the interdisciplinary ASCI courses in the B.A.S. core. This core is open only to students in the B.A.S. program.

## Program Information

## Academic Counselling

The B.A.S. program counsellor assists students in the selection of minors, interpreting program and academic regulations, and with the selection of appropriate courses for chosen minors and distribution requirements. Students should consult the counsellor when experiencing particular difficulties affecting academic standing and progress through the program. Students are encouraged to check the B.A.S. program website regularly for course information and cross-listing of acceptable credits where appropriate.

## Counselling on Minors

Academic departments offer the minors in the B.A.S. program and assign faculty advisors to assist students with academic planning (e.g., a faculty advisor in the History department handles queries about a minor in History). Students should consult the appropriate faculty

| If you choose this BAS Science Minor, then | The BAS Science Core Requirements would be: |
| :---: | :---: |
| Agriculture | BIOL*1030, BIOL*1040, [(CHEM*1040, CHEM*1050) or (MATH*1080, STAT*2040)] |
| Biochemistry | BIOL*1030, BIOL*1040, CHEM* 1040 , CHEM* 1050 |
| Biology | $\begin{gathered} \text { BIOL }^{*} 1030, \text { BIOL } * 1040,\left[\left(\text { CHEM }^{*} 1040,\right.\right. \\ \text { CHEM } \left.\left.{ }^{*} 1050\right) \text { or }\left(\text { MATH }^{*} 1080, \text { STAT }^{*} 2040\right)\right] \end{gathered}$ |
| Biotechnology | BIOL*1030, BIOL*1040, CHEM* 1040 , CHEM* 1050 |
| Chemistry | CHEM*1040, CHEM* 1050, MATH*1200, MATH*1210 |
| Computing \& Information Science | CIS*1500, CIS*1910, STAT*2040, STAT*2050 |
| Ecology | $\begin{gathered} \text { BIOL*1030, BIOL*1040, STAT*2040, } \\ \left(\text { MATH }^{*} 1080, \text { MATH*1200 }\right) \end{gathered}$ |
| Food Science | BIOL*1030, BIOL*1040, CHEM* 1040 , CHEM* 1050 |
| Forest Systems | BIOL*1030, BIOL*1040, STAT*2040, (MATH*1080, MATH*1200) |
| Functional Foods \& Nutraceuticals | BIOL*1030, BIOL*1040, CHEM*1040, CHEM* 1050 |
| Geology | BIOL*1030, BIOL*1040, GEOL*1050, GEOG*1300 |
| GIS \& Environmental Analysis | GEOG*1300, GEOL*1050, STAT*2040, <br> (MATH*1080, MATH*1200) |
| Mathematics | MATH*1200, MATH*1210, STAT*2040, STAT*2050 |
| Mathematical Sciences |  |
| Microbiology | BIOL*1030, BIOL*1040, [(CHEM*1040, CHEM*1050) or [STAT*2040, (MATH*1080 or MATH*1200)] |
| Molecular Biology and Genetics | $\begin{gathered} \hline \text { BIOL*1030, BIOL*1040, (CHEM*1040, } \\ \text { CHEM*1050) } \end{gathered}$ |
| Neuroscience | BIOL*1030, BIOL*1040, CHEM* 1040 , CHEM* 1050 |
| Nutritional and Nutraceutical Sciences | BIOL*1030, BIOL*1040, CHEM* 1040 , CHEM* 1050 |
| Plant Science | BIOL*1030, BIOL*1040, CHEM* 1040 , CHEM* 1050 |
| Physics | PHYS*1000, PHYS*1010, MATH*1200, <br> MATH* 1210 |
| Psychology: Brain and Cognition | MATH*1080, STAT*2040, [(CHEM*1040, CHEM*1050) or (BIOL*1030, BIOL*1040)] |

advisor, along with the B.A.S. Program Counsellor, when declaring a minor or requiring advice on the completion of specialization requirements. The list of faculty advisors is available on the Undergraduate Academic Information Centre website: http://www.uoguelph.ca/uaic/students_faculty.shtml or contact the B.A.S. Program Counsellor for further information.

## Continuation of Study

To be eligible to continue in the program, students must meet the requirements for Continuation of Study as noted in Section VIII--Undergraduate Degree Regulations \& Procedures of this calendar (Schedules 1 and 2).

## Conditions for Graduation

To qualify for the degree Bachelor of Arts and Sciences, the student must successfully complete a minimum of 20.00 credits as identified below. In addition, students must meet the continuation of study requirements at the time of graduation and have a $60.00 \%$ cumulative average.

## Distribution Requirements

This program will require the completion of 20.00 credits as indicated below, with a maximum of 7.00 credits at the 1000 level. First year core courses may be counted towards the minors.

1. Science Core -2.00 credits.
2. Arts/Social Science core -2.00 credits.
3. Subject Area Core - (ASCI) - 3.00 credits.
4. Arts/Social Science Minor -5.00 credits minimum.
5. Science Minor -5.00 credits minimum.
6. Free Electives - 3.00 credits.
7. Science Core - $\mathbf{2 . 0 0}$ credits

Science Core - 2.00 credits as identified by minor below:

| Statistics | MATH*1200, MATH*1210, STAT*2040, STAT*2050 |
| :---: | :---: |
| Zoology | BIOL*1030, $\mathrm{BIOL}^{*} 1040,\left[\left(\mathrm{CHEM}^{*} 1040\right.\right.$, CHEM ${ }^{*} 1050$ ) or $\left[\mathrm{STAT}^{*} 2040,\left(\mathrm{MATH}^{*} 1080\right.\right.$ or MATH $\left.\left.\left.^{*} 1200\right)\right]\right]$ |

## 2. Arts and Social Science Core - $\mathbf{2 . 0 0}$ credits including:

a. 1.00 credits over at least 2 different subject areas in the College of Arts: ARTH - Art History; CHIN - Mandarin; CLAS - Classical Studies; ENGL - English; EURO European Studies; FREN - French Studies; GERM - German Studies; GREK - Greek; HIST - History; HUMN - Humanities; ITAL - Italian Studies; LAT - Latin Studies; LING - Linguistics; MUSC - Music; PHIL - Philosophy; PORT - Portuguese; SART - Studio Art; SPAN - Spanish Studies; THST - Theatre Studies; WMST - Women's Studies.
b. 1.00 credits over at least 2 different subject areas (listed below) in the College of Social and Applied Human Sciences or College of Management and Economics: ANTH - Anthropology; ECON - Economics; GEOG - Geography; IDEV - International Development Studies; ISS - Interdisciplinary Social Science; POLS - Political Science; PSYC - Psychology; SOAN - Sociology and Anthropology; SOC - Sociology; UNIV - First Year Seminars.

| 3. Subject Area Core (ASCI) - |  |  |
| :--- | :--- | :--- |
| - $\mathbf{3 . 0 0}$ credits |  |  |
| - 1.50 credits from: |  |  |
| ASCI*1000 | $[0.50]$ | Society and Science I: Historical Perspectives <br> ASCI*1010 |
| ASCI*2000 | $[0.50]$ | Society and Science II: Current Issues <br> Modes of Inquiry and Communication Across <br> Disciplines |
| - 0.50 credits from: |  |  |
| ASCI*3000 | $[0.50]$ | Arts and Sciences Community Project |
| ASCI*3100 | $[0.50]$ | Case Studies in Arts and Sciences Research |
| ASCI*3700 | $[0.50]$ | Independent Studies in Arts/Sciences |
| - 1.00 credits from: |  |  |
| ASCI*4000 | $[0.50]$ | Arts and Sciences Honours Seminar |
| ASCI*4010 | $[0.50]$ | Arts and Sciences Honours Research Seminar |
| ASCI*4020 | $[0.50]$ | Topics in Arts and Sciences Research |
| ASCI*4030 | $[0.50]$ | Topics in Arts and Sciences Research |
| ASCI*4700 | $[0.50]$ | Independent Studies in Arts/Sciences |
| ASCI*4710 | $[0.50]$ | Independent Studies in Arts/Sciences |

Note: Of the 20.00 credits required for this program, 3.00 credits must be completed at the 3000 or 4000 level, and 2.00 credits at the 4000 level. This requirement is partially fulfilled by senior level courses in the Subject Core (ASCI) requirements.
4. Arts/Social Sciences Minors - $\mathbf{5 . 0 0}$ credits (Minimum)

Minors available in the Arts/ Social Sciences core (see B.A. program descriptions):
Anthropology
Art History
Art Theory and Criticism
Business Administration
Classical Languages
Classical Studies
Criminal Justice \& Public Policy
Economics
Educational Psychology
English
Environmental Studies
Ethics in the Life Sciences
European Culture and Civilization
Family \& Child Studies
French Studies
Geography
German
History
International Development
Italian
Marketing Management
Museum Studies
Music
Philosophy
Political Science
Psychology
Sociology
Spanish

Studio Art
Theater Studies
Visual Art of the Americas
Women's Studies

## 5. Science Minor - $\mathbf{5 . 0 0}$ credits (Minimum)

Minors available in the Science core (see B.Sc. program descriptions):
Agriculture (see B.Sc.(Agr.) program description)
Biochemistry
Biology
Biotechnology
Chemistry
Computing \& Information Science
Ecology
Food Science
Forest Science
Functional Foods \& Nutraceuticals
Geology
GIS* \& Environmental Analysis
Mathematics
Microbiology
Molecular Biology and Genetics
Neuroscience
Nutritional and Nutraceutical Sciences
Plant Science
Physics
Psychology: Brain and Cognition
Statistics
Zoology

* Geographic Information Systems

6. Free Electives - $\mathbf{3 . 0 0}$ credits

The program includes 3.00 free electives. Electives may be completed in any subject area. The number of free electives is reduced if a minor requires more than 5.00 credits.
This program includes 3.00 credits at the 3000 or 4000 level, including 2.00 credits at the 4000 level. This requirement is partially fulfilled by senior level courses in the Subject Area Core (ASCI) requirements.
A maximum of 7.00 credits at the 1000 level may be counted toward the 20.00 credits requirement.
Students cannot, of course, select Psychology or Mathematics for both their B.Sc. and B.A. minors.

## Double Counting Rule

A maximum of 3.00 credits may be double-counted:
a. 1.00 credits may be double-counted between minors.
b. 2.00 credits may be double-counted between a core and one minor.

Students may not triple-count a course between a core and two minors.

