

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.

The University is a full member of:

- The Association of Universities and Colleges of Canada

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UNIVERSITY
of GUELPH

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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.

In the event of a discrepancy between a print version (downloaded) and the Web version, the Web version will apply.

Published by: Undergraduate Program Services

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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XI. Special Study Opportunities

Certificates and Diplomas

The University offers certificate and diploma programs in Applied Statistics, Communication Process, Environmental Citizenship, Environmental Conservation, Food Science, Hospitality Studies, Leadership, Public Policy and Administration and Scottish Studies. These programs are designed for those who want to develop or upgrade skills in one of these areas without necessarily proceeding towards a three or four year degree program. These programs may be completed on a part-time basis over a period of time.

Students currently registered in a degree program or intending to transfer into a degree program should note double-counting regulations. Up to 50% of the requirements for a degree-credit certificate/diploma may be applied toward degree program or degree specialization requirements. The remaining 50% of the certificate/diploma requirements may be applied to electives provided the specific courses in the certificate/diploma meet degree program requirements. For more information, students should consult with the Program Counsellor for the degree program they seek to complete. Note that the Certificate in Leadership is exempt from this restriction.

For more information, please consult with the Open Learning Program Counsellor at the Office of Open Learning (ext. 56050).

Certificate in Communication Process: Bridging Theory and Practice

The five-course online Certificate in Communication Process sets out to enhance participants' knowledge, attitudes and skills necessary for successful careers in business, human resource management, education, medical and veterinary professions, social work, criminology, and international development.

This program focuses on facilitating knowledge-sharing through verbal and non-verbal signs and symbols, as it relates to units of different size and complexity - among individuals, groups, organizations, nations and regions of the world. By gaining insight into various communication processes, participants will be better equipped to effectively manage change in a constantly evolving environment.

The Certificate in Communication Process, available to both undergraduate students and open learners, is offered online through University of Guelph's School of Environmental Design and Rural Development, and is structured as follows:

Required Courses

EDRD*2020*DE	[0.50]	Interpersonal Communication
EDRD*3120*DE	[0.50]	Educational Communication
EDRD*3140*DE	[0.50]	Organizational Communication
EDRD*3160*DE	[0.50]	International Communication
EDRD*4120*DE	[0.50]	Leadership Development in Small Organizations

For more information, visit the website at: <http://www.communicationprocess.ca/>

Certificate in Environmental Citizenship

Developed from a social science perspective, this Certificate is beneficial to those who want to learn more about the global environmental issues facing us today and in the future. Participants gain in-depth knowledge about environmental changes, their global impact, and how one can directly contribute to the environment's sustainability. The Certificate consists of six degree-credit distance education courses taken online from the University of Guelph's Faculty of Environmental Sciences. It is structured as follows, requiring six courses total, to include at least two at the 3000 or 4000 level:

Required Course

UNIV*2050*DE	[0.50]	Environmental Perspectives and Human Choices I
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2 or 3 of the following:

BOT*2000*DE	[0.50]	Plants, Biology and People
ECON*1050*DE	[0.50]	Introductory Microeconomics
ECON*2100*DE	[0.50]	Economic Growth and Environmental Quality
EDRD*3500*DE	[0.50]	Recreation and Tourism Planning
EDRD*4500*DE	[0.50]	Planning Industrial Ecology: Design for Sustainability
GEOG*1220*DE	[0.50]	Human Impact on the Environment
HIST*2250*DE	[0.50]	Environment and History
NRS*2120*DE	[0.50]	Introduction to Environmental Stewardship
PHIL*2070*DE	[0.50]	Philosophy of the Environment
POLS*3370*DE	[0.50]	Environmental Politics and Governance
UNIV*3250*DE	[0.50]	Environmental Perspectives and Human Choices II

2 or 3 of the following:

BIOL*1500*DE	[0.50]	Humans in the Natural World
BIOL*2060*DE	[0.50]	Ecology
BOT*1200*DE	[0.50]	Plants and Human Use
EDRD*3450*DE	[0.50]	Watershed Planning Practice
EDRD*4010*DE	[0.50]	Tourism Planning in the Less Developed World
ENVB*3000*DE	[0.50]	Nature Interpretation
GEOG*2210*DE	[0.50]	Environment and Resources
GEOG*3020*DE	[0.50]	Global Environmental Change
GEOG*3210*DE	[0.50]	Management of the Biophysical Environment

GEOG*3490*DE	[0.50]	Tourism and Environment
MET*1000*DE	[0.50]	The Atmospheric Environment

For more information, please visit the website at: <http://www.environmentalcertificates.com>.

Certificate in Environmental Conservation

Developed from a biophysical science perspective, this Certificate is beneficial to those who want to gain knowledge of issues surrounding environmental protection, conservation and preservation, and environmental research. The Certificate consists of six degree-credit distance education courses taken online from the University of Guelph's Faculty of Environmental Sciences. The program is designed to provide participants with the credentials they need for professional advancement in the environment industry and/or personal enrichment. It is structured as follows, requiring six courses total, to include at least two at the 3000 or 4000 level:

Required Course

NRS*2120*DE	[0.50]	Introduction to Environmental Stewardship
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2 or 3 of the following:

EDRD*3450*DE	[0.50]	Watershed Planning Practice
GEOG*1220*DE	[0.50]	Human Impact on the Environment
GEOG*1300*DE	[0.50]	Introduction to the Biophysical Environment
GEOL*1100*DE	[0.50]	Principles of Geology
GEOL*2250*DE	[0.50]	Geology of Natural Disasters
MET*1000*DE	[0.50]	The Atmospheric Environment
SOIL*2010*DE	[0.50]	Soil Science
SOIL*3080*DE	[0.50]	Soil and Water Conservation

2 or 3 of the following:

BIOL*2060*DE	[0.50]	Ecology
BIOL*3450*DE	[0.50]	Introduction to Aquatic Environments
ENVB*3000*DE	[0.50]	Nature Interpretation
ENVB*3040*DE	[0.50]	Natural Chemicals in the Environment
ENVB*4780*DE	[0.50]	Forest Ecology
GEOG*2210*DE	[0.50]	Environment and Resources
GEOG*3020*DE	[0.50]	Global Environmental Change
GEOG*3210*DE	[0.50]	Management of the Biophysical Environment

For more information, please visit the website at: <http://www.environmentalcertificates.com>.

Certificate in Food Science

The Certificate in Food Science program is offered by the Department of Food Science in a distance education mode. Normally, learners will require two years to complete the process. The certificate program is aimed at upgrading individuals who either have a formal university education in an area other than Food Science or have been working in Food Science-related areas but who have no academic background in Food Science. The certificate program concentrates on the chemistry, analysis, microbiology and processing of foods, and on the maintenance of food safety and quality throughout. All courses are offered in an interactive format via the internet.

Individuals interested in entering the Certificate in Food Science program should enrol in the Open Learning program through the Office of Open Learning. Post-secondary courses in microbiology and chemistry are pre-requisites for entrance into the program.

The core courses of the program cannot be used as substitutes for core courses or restricted electives in the B.Sc. Food Science Major.

Required Courses

FOOD*2010*DE	[0.50]	Principles of Food Science
FOOD*2400*DE	[0.50]	Introduction to Food Chemistry
FOOD*2410*DE	[0.50]	Introduction to Food Processing
FOOD*2420*DE	[0.50]	Introduction to Food Microbiology
FOOD*3430*DE	[0.50]	Introduction to Food Analysis

For more information, please visit the website at: <http://www.foodsciencecertificate.com>.

Certificate in Hospitality Studies

The Certificate in Hospitality Studies is offered online from the University of Guelph's School of Hospitality and Tourism Management, College of Management and Economics. It is comprised of five courses taken via distance education and is designed to provide an overview of the hospitality industry, an understanding of human resources management principles and financial management skills. It is perfect for individuals needing additional formal education to assume greater management responsibilities.

The Certificate requires the five courses listed below:

Required Courses

ACCT*2230*DE	[0.50]	Management Accounting
BUS*2090*DE	[0.50]	Individuals and Groups in Organizations
BUS*3000*DE	[0.50]	Human Resources Management
HTM*2030*DE	[0.50]	Control Systems in the Hospitality Industry
MGMT*2150*DE	[0.50]	Introduction to Canadian Business Management

For more information, please visit the website at: <http://www.hospitalitystudies.com>

Certificate in Leadership

The Certificate in Leadership is offered by the University of Guelph through the College of Management and Economics. This certificate program allows undergraduate students to complete both their degree program and the certificate concurrently. As well, the certificate is available to students in the Open Learning program.

The program focuses on new leadership models and practical applications in a variety of organizational settings. Five undergraduate courses are required, in addition to 120 hours of leadership practice. Students will develop an historical and theoretical understanding of leadership with particular emphasis on contemporary theories, models and research.

The program consists of two Required courses, three Elective courses chosen from the list below, and 120 hours of leadership practice, in an approved placement. Some courses require particular prerequisites; it is important to take into account the necessary prerequisites and semester offered when determining the sequence in which courses are taken. Many of the courses are offered in both on-campus and distance formats. Refer to the undergraduate calendar for specifics concerning course formats and schedule.

Students who wish to enrol in the Certificate in Leadership program should contact the Office of Open Learning at 519-767-5000. For more information, please visit the website at: <http://www.leadershipcertificate.com/>

Required

HROB*2010*DE	[0.50]	Foundations of Leadership
HROB*4010*DE	[0.50]	Leadership Capstone

Ethics Course Requirement (Select 0.50 credits)

PHIL*2120	[0.50]	Ethics
PHIL*2600	[0.50]	Business and Professional Ethics
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics

Electives (Select 1.00 credits)

BUS*2090	[0.50]	Individuals and Groups in Organizations
BUS*3000	[0.50]	Human Resources Management
EDRD*3140	[0.50]	Organizational Communication
EDRD*3160	[0.50]	International Communication
EDRD*4120	[0.50]	Leadership Development in Small Organizations
HROB*4030	[0.50]	Advanced Topics In Human Resource Management
HROB*4100	[1.00]	Applied Research in Human Resources Management
MGMT*2150	[0.50]	Introduction to Canadian Business Management [B.Comm students may not take this course for credit in their degree program.]
PHIL*2100	[0.50]	Critical Thinking
POLS*2250	[0.50]	Public Administration and Governance
PSYC*3070	[0.50]	Psychology in Human Resource Management
PSYC*3080	[0.50]	Organizational Psychology
SOAN*2040	[0.50]	Globalization of Work and Organizations
SOAN*2120	[0.50]	Introductory Methods

In addition to the five degree-credit courses selected from the above list, 120 hours of leadership practice are required to obtain the undergraduate Certificate in Leadership. The selection and approval of the 120 hours of leadership practice takes place during HROB*2010 (Foundations of Leadership). For more information, please visit the website at: http://www.leadershipcertificate.com

Certificate in Public Policy and Administration

The five-course Certificate in Public Policy and Administration is designed to provide a solid foundation in key concepts and foundations of Canadian government, policy and administration. By bringing together a number of Canadian political science and public policy courses that are currently available to both undergraduate students and open learners, this certificate will be of interest to individuals currently working or seeking employment in the public sector or quasi-public sector as well as undergraduate students majoring in Public Management, Political Science and Criminal Justice and Public Policy. All six courses in this certificate are also available in distance education format. To earn the Certificate, students will be required to successfully complete five of the six courses (2.50 credits) as follows:

Required Courses

POLS*1400*DE	[0.50]	Issues in Canadian Politics
POLS*2250*DE	[0.50]	Public Administration and Governance

3 of the following 4 courses:

POLS*2300*DE	[0.50]	Canadian Government and Politics
POLS*3250*DE	[0.50]	Public Policy: Challenges and Prospects
POLS*3370*DE	[0.50]	Environmental Politics and Governance
POLS*3440*DE	[0.50]	Corruption, Scandal and Political Ethics

Students who wish to enrol in the Certificate in Public Policy and Administration should contact the Open learning program Counsellor at the Office of Open Learning (ext. 56050.)

Certificate in Scottish Studies

Delivered through distance education, the six-course Certificate in Scottish Studies is focused around the landscape, literature, and history of Scotland and the legacy of Scottish migration on Canada's development. By bringing together a number of Scottish and Scottish-related courses, the Certificate offers learners a distinctive interdisciplinary program of study. The Certificate in Scottish Studies comprises courses that are offered to both undergraduate students and open learners. To earn the Certificate, students will be required to successfully complete six of the seven courses as follows:

Required Courses

ENGL*3360*DE	[0.50]	Scottish Literary Cultures
HIST*2000*DE	[0.50]	The British Isles, 1066-1603
HIST*3030*DE	[0.50]	Celtic Britain and Ireland to 1066
HIST*3530*DE	[0.50]	Celtic Britain and Ireland Since 1603
NRS*2050*DE	[0.50]	The Landscape of Scotland

One course from:

HIST*3140*DE	[0.50]	Witch-hunts and Popular Culture
HIST*4050*DE	[1.00]	Topics in Scottish History

Students who wish to enrol in the Certificate in Scottish Studies should contact the Open Learning program Counsellor at the Office of Open Learning (ext. 56050). For more information, please visit the website at: <http://www.scottishcertificate.com/>.

Diploma in Applied Statistics

The Diploma in Applied Statistics is a program offered by the Department of Mathematics and Statistics, which seeks to give students of the Applied Sciences a technical competency in the use and application of Statistics.

The program is intended mainly for those whose primary area of expertise is not in Statistics, but who feel the need to be able to use modern statistical techniques. This program seeks to fill a need of scientists to reach a useful level of competency in the use of statistical methodology.

Diploma Requirements

The program consists of 5.00 credits chosen from the following list. It is important to take into account the necessary prerequisites when determining the sequence in which the courses are taken. Consult an advisor from the department for assistance.

MATH*2080	[0.50]	Elements of Calculus II
MATH*2150*DE	[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*3210	[0.50]	Experimental Design
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications
STAT*3510	[0.50]	Environmental Risk Assessment
STAT*4050	[0.50]	Topics in Applied Statistics I
STAT*4060	[0.50]	Topics in Applied Statistics II
STAT*4080	[0.50]	Data Analysis
STAT*4350	[0.50]	Applied Multivariate Statistical Methods
STAT*4360	[0.50]	Applied Time Series Analysis
STAT*4510	[0.50]	Advanced Risk Analysis

Co-operative Education

The Co-operative Education option is offered in 33 majors. Co-op provides eligible students with the opportunity to alternate semesters of academic study with semesters of paid work experience. Job opportunities are across Ontario, and in some cases out-of-province or international. The work experience is related to the student's academic program and/or career objectives. Admission can occur directly into semester 1 from high school, or in-course (but not normally beyond Academic Semester 3). Co-operative Education is also available to international students.

For further details refer to information on Co-operative Education in Section X--Degree Programs. Course requirements and academic/work sequences for specific majors are listed under the appropriate degree program in Section X--Degree Programs.

Distance Education

The Distance Education program, administered by the Office of Open Learning, supports academic departments in offering degree credit courses to students who choose to study outside the traditional classroom environment. Courses may come with a variety of learning resources, including: manuals, videotapes, audio CDs, DVDs, CD-ROMs, etc., depending on the nature of the course. As well, most courses incorporate computer conferencing, email, computer-based quizzes, and the use of the Internet. Distance education provides a contemporary means through which the University of Guelph continues its tradition of outreach and open learning opportunities.

Students may take distance education courses for a variety of reasons, including: to have flexibility in designing their own study schedules; to avoid timetable conflicts; to acquire credits while away on summer break or on a co-op job placement; to take courses unavailable in class in a given semester; to learn in an interactive online environment.

The University of Guelph recognizes the importance of distance learning and is committed to providing opportunities for the off-campus learner. A wide range of subject areas and course levels is available.

The following is a list of the courses that are offered in the distance format. **When selecting these courses, section DE must be specified to indicate the distance education offering.** Please consult Section XII--Course Descriptions. Because additional courses are constantly being developed, please consult the Office of Open Learning, 160 Johnston Hall, 519-767-5000, email: info@open.uoguelph.ca for an updated listing of courses available by distance education and when they are scheduled to be offered. Course listings are also available at www.open.uoguelph.ca.

ACCT*2220*DE	[0.50]	Financial Accounting
ACCT*2230*DE	[0.50]	Management Accounting
ANSC*2340*DE	[0.50]	Structure of Farm Animals
ANSC*3210*DE	[0.50]	Principles of Animal Care and Welfare
ANTH*1150*DE	[0.50]	Introduction to Anthropology
BIOL*1500*DE	[0.50]	Humans in the Natural World
BIOL*2060*DE	[0.50]	Ecology
BIOM*2000*DE	[0.50]	Concepts in Human Physiology
BOT*1200*DE	[0.50]	Plants and Human Use
BOT*2000*DE	[0.50]	Plants, Biology and People
BUS*2090*DE	[0.50]	Individuals and Groups in Organizations
BUS*3000*DE	[0.50]	Human Resources Management
CHEM*1060*DE	[0.50]	Introductory Chemistry
CHEM*1100*DE	[0.50]	Chemistry Today
CHEM*3360*DE	[0.50]	Environmental Chemistry and Toxicology
CIS*1000*DE	[0.50]	Introduction to Computer Applications
CIS*1200*DE	[0.50]	Introduction to Computing
CIS*1500*DE	[0.50]	Introduction to Programming
CIS*2050*DE	[0.50]	Computers and Society
CROP*1050*DE	[0.50]	Green Energy - Fuel from Plants
ECON*1050*DE	[0.50]	Introductory Microeconomics
ECON*1100*DE	[0.50]	Introductory Macroeconomics
ECON*2200*DE	[0.50]	Industrial Relations
ECON*2100*DE	[0.50]	Economic Growth and Environmental Quality
ECON*2310*DE	[0.50]	Intermediate Microeconomics
ECON*2410*DE	[0.50]	Intermediate Macroeconomics
ECON*2770*DE	[0.50]	Introductory Mathematical Economics
ECON*2560*DE	[0.50]	Theory of Finance
ECON*3660*DE	[0.50]	Economics of Equity Markets
ECON*4400*DE	[0.50]	Economics of Organizations and Corporate Governance
EDRD*2020*DE	[0.50]	Interpersonal Communication
EDRD*2600*DE	[0.50]	Planning Theory
EDRD*2650*DE	[0.50]	Introduction to Planning and Environmental Law
EDRD*3120*DE	[0.50]	Educational Communication
EDRD*3140*DE	[0.50]	Organizational Communication
EDRD*3160*DE	[0.50]	International Communication
EDRD*3450*DE	[0.50]	Watershed Planning Practice
EDRD*3500*DE	[0.50]	Recreation and Tourism Planning
EDRD*4010*DE	[0.50]	Tourism Planning in the Less Developed World
EDRD*4120*DE	[0.50]	Leadership Development in Small Organizations
EDRD*4500*DE	[0.50]	Planning Industrial Ecology: Design for Sustainability
ENGL*1200*DE	[0.50]	Reading the Contemporary World
ENGL*2640*DE	[0.50]	Culture, Location, Identity: Minoritized Literatures in Canada and Beyond
ENGL*2740*DE	[0.50]	Children's Literature
ENGL*3360*DE	[0.50]	Scottish Literary Cultures
ENVB*2210*DE	[0.50]	Introductory Apiculture
ENVB*3000*DE	[0.50]	Nature Interpretation
ENVB*3030*DE	[0.50]	Pesticides and the Environment
ENVB*3040*DE	[0.50]	Natural Chemicals in the Environment
EURO*1050*DE	[0.50]	The Emergence of a United Europe
FOOD*2010*DE	[0.50]	Principles of Food Science
FOOD*2400*DE	[0.50]	Introduction to Food Chemistry
FOOD*2410*DE	[0.50]	Introduction to Food Processing
FOOD*2420*DE	[0.50]	Introduction to Food Microbiology
FOOD*3430*DE	[0.50]	Introduction to Food Analysis
FOOD*4310*DE	[0.50]	Food Safety Management Systems
FREN*1090*DE	[0.50]	Basic French: Reading
FREN*1100*DE	[0.50]	Basic French: Listening
FREN*1120*DE	[0.50]	Basic French: Writing
FREN*2020*DE	[0.50]	France: Literature and Society
FREN*2500*DE	[0.50]	French Translation I
FREN*3530*DE	[0.50]	Business French
FRHD*1010*DE	[0.50]	Human Development
FRHD*1020*DE	[0.50]	Couple and Family Relationships
FRHD*2060*DE	[0.50]	Adult Development and Aging
FRHD*2100*DE	[0.50]	Development of Human Sexuality

FRHD*2110*DE	[0.50]	Exceptional Children and Youth
FRHD*2260*DE	[0.50]	Infant Development
FRHD*2270*DE	[0.50]	Development in Early and Middle Childhood
FRHD*2280*DE	[0.50]	Adolescent Development
FRHD*3190*DE	[0.50]	Administration of Programs for Children
GEOG*1200*DE	[0.50]	Society and Space
GEOG*1220*DE	[0.50]	Human Impact on the Environment
GEOG*1300*DE	[0.50]	Introduction to the Biophysical Environment
GEOG*2210*DE	[0.50]	Environment and Resources
GEOG*2510*DE	[0.50]	Canada: A Regional Synthesis
GEOG*3020*DE	[0.50]	Global Environmental Change
GEOG*3210*DE	[0.50]	Management of the Biophysical Environment
GEOG*3490*DE	[0.50]	Tourism and Environment
GEOL*1100*DE	[0.50]	Principles of Geology
GEOL*2250*DE	[0.50]	Geology of Natural Disasters
HISP*1100*DE	[0.50]	Introductory Spanish I
HISP*1110*DE	[0.50]	Introductory Spanish II
HIST*1150*DE	[0.50]	The Modern World
HIST*2000*DE	[0.50]	The British Isles, 1066-1603
HIST*2040*DE	[0.50]	War and Society
HIST*2070*DE	[0.50]	World Religions in Historical Perspective
HIST*2250*DE	[0.50]	Environment and History
HIST*2260*DE	[0.50]	Religion and Society
HIST*2450*DE	[0.50]	The Practising Historian
HIST*2610*DE	[0.50]	Contemporary Canadian Issues
HIST*3020*DE	[0.50]	Sexuality and Gender in History
HIST*3030*DE	[0.50]	Celtic Britain and Ireland to 1066
HIST*3140*DE	[0.50]	Witch-hunts and Popular Culture
HIST*3530*DE	[0.50]	Celtic Britain and Ireland Since 1603
HIST*3540*DE	[0.50]	World War II
HIST*4050*DE	[1.00]	Topics in Scottish History
HORT*1120*DE	[0.50]	Grape and Wine Science
HORT*3430*DE	[0.50]	Wine-Grape Culture
HROB*2010*DE	[0.50]	Foundations of Leadership
HROB*2100*DE	[1.00]	Managing People in Organizations
HROB*3010*DE	[0.50]	Compensation Systems
HROB*3030*DE	[0.50]	Occupational Health and Safety
HROB*3070*DE	[0.50]	Recruitment and Selection
HROB*3090*DE	[0.50]	Training and Development
HROB*4010*DE	[0.50]	Leadership Capstone
HROB*4060*DE	[0.50]	Human Resources Planning
HTM*2030*DE	[0.50]	Control Systems in the Hospitality Industry
HTM*3180*DE	[0.50]	Casino Operations Management
HTM*3780*DE	[0.50]	Economics of Food Usage
MATH*1000*DE	[0.50]	Introductory Calculus
MATH*1030*DE	[0.50]	Business Mathematics
MATH*2150*DE	[0.50]	Applied Matrix Algebra
MBG*3060*DE	[0.50]	Quantitative Genetics
MBG*3090*DE	[0.50]	Applied Animal Genetics
MCS*1000*DE	[0.50]	Introductory Marketing
MCS*2020*DE	[0.50]	Marketing Information Management
MCS*2100*DE	[0.50]	Personal Financial Management
MCS*3010*DE	[0.50]	Quality Management
MCS*3030*DE	[0.50]	Research Methods
MCS*3040*DE	[0.50]	Business and Consumer Law
MET*1000*DE	[0.50]	The Atmospheric Environment
MGMT*2150*DE	[0.50]	Introduction to Canadian Business Management
MUSC*1060*DE	[0.50]	"Classical" Music: Context and Codes
MUSC*1130*DE	[0.50]	Introduction to Musicianship
MUSC*2140*DE	[0.50]	History of Jazz
MUSC*2150*DE	[0.50]	Music and Popular Culture
MUSC*2280*DE	[0.50]	Masterworks of Music
NRS*2050*DE	[0.50]	The Landscape of Scotland
NRS*2120*DE	[0.50]	Introduction to Environmental Stewardship
NUTR*1010*DE	[0.50]	Nutrition and Society
NUTR*2050*DE	[0.50]	Family and Community Nutrition
OAGR*2300*DE	[0.50]	Organic Marketing
PATH*3610*DE	[0.50]	Principles of Disease
PHIL*2070*DE	[0.50]	Philosophy of the Environment
PHIL*2100*DE	[0.50]	Critical Thinking
PHIL*2120*DE	[0.50]	Ethics
PHIL*2130*DE	[0.50]	Philosophy of Religion
PHIL*2170*DE	[0.50]	Existentialism
PHIL*3240*DE	[0.50]	Philosophy of Technology
PHYS*1020*DE	[0.50]	Introductory Physics
PHYS*1600*DE	[0.50]	Contemporary Astronomy
POLS*1400*DE	[0.50]	Issues in Canadian Politics

POLS*1500*DE	[0.50]	World Politics
POLS*2000*DE	[0.50]	Political Theory
POLS*2250*DE	[0.50]	Public Administration and Governance
POLS*2300*DE	[0.50]	Canadian Government and Politics
POLS*3250*DE	[0.50]	Public Policy: Challenges and Prospects
POLS*3300*DE	[0.50]	Governing Criminal Justice
POLS*3370*DE	[0.50]	Environmental Politics and Governance
POLS*3440*DE	[0.50]	Corruption, Scandal and Political Ethics
PSYC*1100*DE	[0.50]	Principles of Behaviour
PSYC*1200*DE	[0.50]	Dynamics of Behaviour
PSYC*2010*DE	[0.50]	Quantification in Psychology
PSYC*2310*DE	[0.50]	Introduction to Social Psychology
PSYC*2360*DE	[0.50]	Introductory Research Methods
PSYC*2390*DE	[0.50]	Principles of Sensation and Perception
PSYC*2410*DE	[0.50]	Behavioural Neuroscience I
PSYC*2450*DE	[0.50]	Introduction to Developmental Psychology
PSYC*2650*DE	[0.50]	Cognitive Psychology
PSYC*2740*DE	[0.50]	Personality
PSYC*3010*DE	[0.50]	Compensation Systems
PSYC*3020*DE	[0.50]	Psychology of Law
PSYC*3070*DE	[0.50]	Psychology in Human Resource Management
PSYC*3080*DE	[0.50]	Organizational Psychology
PSYC*3250*DE	[0.50]	Psychological Measurement
PSYC*3340*DE	[0.50]	Psycholinguistics
PSYC*3390*DE	[0.50]	Abnormal Psychology
PSYC*3480*DE	[0.50]	Psychology of Sport
PSYC*3570*DE	[0.50]	The Psychology of Death and Dying
PSYC*3710*DE	[0.50]	Psychology of Learning Difficulties and Disabilities I
PSYC*3800*DE	[0.50]	Psychology and Education
PSYC*3850*DE	[0.50]	Intellectual Disabilities
SART*1150*DE	[0.50]	Contemporary Artistic Practice
SOAN*2400*DE	[0.50]	Introduction to Gender Systems
SOC*1100*DE	[0.50]	Sociology
SOC*1500*DE	[0.50]	Crime and Criminal Justice
SOC*2070*DE	[0.50]	Social Deviance
SOC*2760*DE	[0.50]	Homicide
SOC*3490*DE	[0.50]	Law and Society
SOIL*2010*DE	[0.50]	Soil Science
SOIL*3080*DE	[0.50]	Soil and Water Conservation
STAT*2060*DE	[0.50]	Statistics for Business Decisions
THST*2500*DE	[0.50]	Contemporary Cinema
TOX*3360*DE	[0.50]	Environmental Chemistry and Toxicology
UNIV*2050*DE	[0.50]	Environmental Perspectives and Human Choices I
UNIV*3250*DE	[0.50]	Environmental Perspectives and Human Choices II
WMST*1000*DE	[0.50]	Introduction to Women's Studies

Note:

- Getting ready for Calculus, a non-degree credit preparatory course, is also offered via distance.

Note: Please check with the Office of Open Learning regarding the technology and resource requirements (e.g. computer, internet, DVD player, etc.) for the specific course(s) in which you are interested.

The courses have been designed and written by experts to meet rigorous standards. Clusters of courses are offered from selected areas of specialization within the University.

The Diploma in Applied Statistics, the Certificate in Public Policy and Administration, the Certificate in Communication Process, the Certificate in Food Science, the Certificate in Hospitality Studies, the Certificate in Environmental Citizenship, the Certificate in Environmental Conservation, the Certificate in Scottish Studies and the Certificate in Leadership are also offered in the distance education mode in whole or in part (see Certificates and Diplomas in this section for further information).

General Studies

The objective of the General Studies program is to provide mature students with the opportunity to take university courses before registering in a specific degree program or to take university courses for continued learning with no immediate intention of registering in a degree program. The General Studies program does not lead towards a specific undergraduate degree at the University of Guelph. Initially, students register for part time studies only.

Academic Counselling

General Studies students can obtain counselling for selecting courses, and planning their future program from the B.A. Counselling Office located in Room 130 MacKinnon Building. Prospective students should contact the Admissions Section of the Office of Registrarial Services.

Financial Assistance

Students registered in 3 or more courses of the General Studies program are eligible to apply to the [Ontario Student Assistance Program](#) (OSAP) if an Ontario resident. Students who are residents of other provinces must apply to their home province for financial assistance. General Studies students are eligible to apply for OSAP assistance for a maximum of two semesters. General Studies students who transfer to a degree program may continue to apply for OSAP.

Schedule of Studies

1. Students may take any undergraduate course offered by the University, as long as any stated prerequisites are met or the approval of the instructor is obtained.
2. Students may take Associate Diploma courses with the approval of the Director of the Associate Diploma program.
3. Students will not normally be eligible to continue in the General Studies program after enrolment in 20 courses.
4. The grade assigned for each course will become part of the student's University academic record.
5. Students who register in the General Studies program and who subsequently apply for transfer to a degree or diploma program, will be required to meet admission requirements for that program, and credit granted for courses taken in the General Studies program will be subject to the regulations pertaining to that program.

Tuition Fees

Students are advised to refer to Section VI--Schedule of Fees.

Undergraduate Regulations

Students are referred to Section VIII--Undergraduate Degree Regulations for additional information regarding registration, course selection, withdrawal from study, continuation of study, examination policy and requests for academic consideration.

Graduate Studies

The University of Guelph offers graduate programs in most departments and schools. These post-baccalaureate programs offer opportunities for personal, academic and professional growth. Students with a 70% average or higher should consider and investigate these options, beginning no later than their third undergraduate year. Decisions regarding the desired area of study and pursuit of scholarship support require forethought and planning. Information, and counselling are available through the graduate coordinators of each department/school. Applications is made on-line and accessed through Graduate Studies website at <http://www.uoguelph.ca/registrar/graduatestudies/index.cfm?apply>. Students are also welcome to visit the Office of Graduate Program Services, Level 3, University Centre.

The University of Guelph offers opportunities for qualified students to do graduate work leading to the Master of Arts (M.A.), Master of Science (M.Sc.), Master of Landscape Architecture (M.L.A.), Master of Applied nutrition (M.A.N.) Master of Bioinformatics (M.Bnf.), Master of Business Administration (M.B.A.), Master of Engineering (M.Eng.), Master of Fine Art (M.F.A.), Master of Science in Aquaculture (M.Sc. Aqua), Master of Science in Planning (M.Plan), Master of Public Health (M.P.H.), Doctor of Philosophy (Ph.D.), and Doctor of Veterinary Science (D.V.Sc.) degrees.

Interdisciplinary Studies

The University of Guelph offers many interdisciplinary programs that cross departmental and college boundaries. In addition, specific courses and specializations have been modelled on an interdisciplinary approach to the topic or subject area.

Courses with an interdisciplinary approach and content are listed in Section XII under the following headings: Humanities, Physical Science, and Social Science as well as Interdisciplinary University Courses.

The following list of specializations is not intended to represent all the university's interdisciplinary initiatives. Instead it identifies those specializations that involve a significant degree of collaboration between departments or colleges. For further details, refer to the appropriate undergraduate degree program information in Section IX.

Bachelor of Arts

Criminal Justice and Public Policy
Environmental Studies (Minor)
European Studies
Information Systems & Human Behaviour
International Development

Bachelor of Arts and Sciences

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. For more information please see: <http://www.uoguelph.ca/bas/>

Bachelor of Commerce

Agricultural Business
Hotel and Food Administration
Human Resources Management
Management Economics in Industry & Finance
Marketing Management
Public Management
Tourism Management

Bachelor of Science (Biological Science)

Biomedical Toxicology
Earth Surface Science
Environmental Toxicology
Plant Biology

Bachelor of Science in Environmental Sciences

Open Learning

The University of Guelph serves the learning needs of people of all ages whose educational requirements may not match the program structure or services available through full-time undergraduate study. The adoption of the philosophy of lifelong learning, changes in the demographic characteristics of our communities, the explosion of new knowledge, and the effect of rapid technological advances on professional competence are major factors underlying the University's commitment towards alternative approaches to providing education through open learning.

The Office of Open Learning

The Office of Open Learning is the institutional focus for distance education, continuing education, and the Open Learning program. As such, the Office of Open Learning supports departments in the development and delivery of open learning activities. Courses and programs cover a broad spectrum of learning needs which include professional updating programs and general interest/knowledge enhancing courses.

The Open Learning program

The Open Learning program is an open admission distance-only part-time mode of study that provides access to degree-credit university courses for individuals who wish to study independently but are not interested in pursuing a degree at the University of Guelph at the present time. You may register in the Open Learning program, even if you are in another program or are registered at another post-secondary educational institution. The Open Learning program extends the academic resources of the University to those interested in personal enrichment, professional updating, or eventual application to a degree program.

Open Learning program students must complete the same assignments and examinations as those in degree programs and are evaluated using the same standards. Upon successful completion of a course, learners receive the same credit weight for courses as would apply to courses taken within the degree program.

Continuing Education Option

Those not interested in receiving degree credit for courses may register as continuing education students. Learners taking courses in this way may not be required to complete assignments or related exams.

Further information is available from the Office of Open Learning, 160 Johnston Hall, by email: info@open.uoguelph.ca, by phone 519-767-5000 or at www.open.uoguelph.ca

Guaranteed Admission to a B.A. Program

Open Learning program students who have no previous post-secondary experience and have completed four courses, (2.00 credits), with a 70% minimum cumulative average may transfer into the B.A. Program at the University of Guelph.

Applicants are advised to complete two courses (1.00 credit) from the College of Arts and two courses (1.00 credit) in the Social Sciences.

Guaranteed Admission to the B.Comm. Program

Open Learning program students with no previous post-secondary education will be offered guaranteed admission to the Bachelor of Commerce (B.Comm.) degree program under the following conditions.

1. Applicants must satisfy the English proficiency requirements (see the Undergraduate Calendar, Section IV Admission, English Proficiency).
2. Successful completion of four-degree-level courses (2.00 credits) with a cumulative average of 70% or above in at most 6 course (3.00 credit) attempts. The four courses (2.00 credits) used in the calculation of the cumulative average will include any degree-level courses used to meet the English and mathematics requirements and must satisfy the following:
 - a. at least 1.00 credits must be from arts and social sciences;
 - b. no more than 1.00 credits from mathematics and statistics combined may be used to calculate the cumulative average.
3. Applicants must satisfy the following English and mathematics requirements:

English Requirement

A grade of 75% or higher in English 12U or the successful completion of one course (0.50 credits) from:

ENGL*1200, EURO*1050, GEOG*1220, HIST*1150, HIST*2000, HIST*2040, HIST*2070, HIST*2260, HIST*2610, HIST*2830, POLS*1400, SOC*1100, WMST*1000, UNIV*2000

Mathematics Requirement

A grade of 75% or higher in the 12U mathematics course(s) required for the applicant's intended major or the successful completion of MATH*1000/MATH*1030.

Open Learning program Certificates and Diplomas

Certificate in Communication Process: Bridging Theory and Practice

Certificate in Environmental Citizenship

Certificate in Environmental Conservation

Certificate in Food Science

Certificate in Hospitality Studies

Certificate in Leadership

Certificate in Public Policy and Administration

Certificate in Scottish Studies

(Refer to Certificates & Diplomas in this section for descriptions or contact the Office of Open Learning.)

Open Learning program Courses*

Please refer to Distance Education in this section for a listing of courses offered through the Open Learning program.

**please check with the Office of Open Learning regarding the technology and resource requirements (e.g. computer, internet, DVD, etc.) for the specific course(s) in which you are interested.*

Open Learning Scholarships/Bursaries

Open Learning Bursaries

Established by faculty, staff and friends of Open Learning. These funds are intended to provide support for non-degree students that are enrolled in an Open Learning Program (courses, certificates, and diplomas) in need of financial assistance. More information can be found at: <http://www.open.uoguelph.ca/bursary/>

Qualification(s): Canadian citizens or permanent residents with the greatest financial need.

Bruce Christie Entrance Scholarship in Agricultural Communications

In honour of his retirement, friends and colleagues of Bruce E. Christie P.Ag (Hon.)(OAC 1958A) provided donations to establish this \$1,500 scholarship. This award will further his long-time and dedicated interest in developing better communications between the agri-food industry and its various constituents, especially urban and rural populaces. Students entering the Diploma in Agricultural Communications program directly after graduating with a minimum 70% average from any undergraduate program in OAC are eligible. Selection will be based on the level of interest in agricultural communications career as demonstrated by the application materials. Financial need will also be considered. Apply to Open Learning Bursary Committee by April 1 with a one-page letter outlining your achievements in various communications/journalism/public relations activities as well as citing the communications courses taken during your undergraduate program and information regarding any financial need.

Equine Science Certificate Scholarship

This scholarship provides the value of tuition for one course in the Equine Science Certificate program. The scholarship is available to Open Learning students who have completed two courses in the Equine Science Certificate Program with a minimum cumulative average of 80%. Apply to Senior Manager, Equine Guelph by February 12 with an essay of no more than two pages on the value of the program and its impact on the well-being of the student's horse. This award may be held only once.

Prof. H.J. Malik Statistics Prize

This \$150 prize is provided in honour of H.J. Malik, Professor Emeritus in the Department of Mathematics and Statistics, by family, colleagues and friends. Application not required. Open Learning program distance education student who has completed the course STAT*2060, Statistics for Business Decisions, with the highest attained grade over 80% in the previous year. All open Learning program students who complete this course in the previous spring, fall or winter semesters will automatically be considered the following May.

Stan Young Memorial Entrance Scholarship in Agricultural Communications

The family, friends, and colleagues of the late Dr. Stan Young (BSA '49) have established this \$1,300 scholarship as a tribute to Stan's accomplishments in the area of agricultural communications and to further his vision for a more proactive and focused education for people interested in promoting agricultural and food related issues. Students entering the Diploma in Agricultural Communications program directly after graduating with a minimum 70% average from any undergraduate program in OAC are eligible. Selection will be based on the level of interest in agricultural communications career as demonstrated by the application materials. Financial need will also be considered. Apply to Open Learning Bursary Committee by April 1 with a one-page letter outlining your achievements in various communications/journalism/public relations activities as well as citing the communications courses taken during your undergraduate program and information regarding any financial need.

Distance Education

The Office of Open Learning facilitates the delivery of degree credit courses to students who are typically off-campus or wish to take distance courses in order to accommodate their schedules. The Office of Open Learning assists in course development and preparation and is the focal point of this activity by providing information, student support, and administration. Please refer to the Distance Education heading in this section for the listing of courses offered through the distance format.

Calendars and brochures outlining complete details of activities are available from the Office of Open Learning, Johnston Hall Room 160, 519-767-5000, info@open.uoguelph.ca, or at www.open.uoguelph.ca

Continuing Education

The Office of Open Learning annually offers over 100 professional development programs, courses, conferences, and certificates in collaboration with academic departments and/or professional organizations. For detailed information on learning opportunities offered by the Office of Open Learning contact us at tel: 519-767-5000; fax 519 767-1114; email: info@open.uoguelph.ca; website: www.open.uoguelph.ca; or visit us in Johnston Hall Room 160.

Certificate In Couple & Family Therapy Studies

(co-sponsored by the Ontario Association for Marriage and Family Therapy)

The Certificate in Couple and Family Therapy Studies is designed to provide practising therapists with specialized training and updating in the needs, problems and changing patterns of couple and family relationships. Systems theory is the primary, although not the only, theoretical orientation within the program. Attention to issues of gender, race, class, ethnicity and culture underlies all aspects of the program. Program faculty are clinical members of the American Association for Marriage and Family Therapy (AAMFT) and AAMFT-approved supervisors.

Courses in this program are designed to meet the education requirements for Clinical Membership in the American Association for Marriage and Family Therapy. All courses are delivered at a level of rigour equivalent to that of a Master's degree and require completion of a formal evaluation component, marked according to University of Guelph grading standards. Individuals successfully completing the required course of study will receive the Certificate in Couple and Family Therapy Studies from the University of Guelph and the Ontario Association for Marriage and Family Therapy. While completion of all six courses in the certificate program is encouraged, students are welcome to take courses for general interest or specific upgrading, provided they have adequate background and/or preparation. It is strongly recommended that students pursue a concurrent program of clinical practice and supervision. Prerequisite: A Bachelor's degree.

Required Courses:

- Theories & Methods of Family Therapy: Foundations of the Field
- Theories & Methods: Post-Modern Models
- Theories & Methods of Couple Therapy

Elective Courses (Choose 3):

- Change Strategies in Therapy

- Family Therapy and Mental Health
- Reflections on Stress, Trauma and Loss
- Research in Couple and Family Therapy
- Systemic Approaches with the Addicted Client: Assessment and Intervention
- Sex Therapy Training Program
- Transition: The Human Life Cycle
- Sexual Attitudes Reassessment

For details and to apply visit <http://www.couplefamilytherapistudies.ca>.

Certificate in Real Estate Appraisal

This certificate program is designed for real property professionals who are involved in valuation and appraisal and who are seeking accreditation with the Appraisal Institute of Canada. It will also provide graduate and undergraduate business students, who are interested in real estate, an opportunity to continue their professional development.

Required Courses:

- Real Estate Appraisal
- Urban Economics
- Advanced Real Estate Appraisal
- Real Estate Law
- Case Studies in Appraisal I
- Case Studies in Appraisal II

The courses will be delivered in a face-to-face format on the University of Guelph campus. Each course will consist of 20 instructional hours, offered over 4 alternate Saturdays. Students can complete this certificate in 12 months.

For more information, please contact the Office of Open Learning by e-mail at info@open.uoguelph.ca or call 519-767-5000.

Diploma in Human Resources Management

Human resources management is critical to achieving organizational effectiveness in today's business environment. Participants will learn how to leverage and develop their skills to achieve creative and innovative organizational goals.

The Diploma in Human Resources Management program curriculum links theory with practice in order to develop HR core competencies and business acumen of a Certified Human Resource Professional. In order to receive your Diploma in Human Resources Management you must complete 10 courses within the program which include nine HRP approved courses and one online distance education elective. There are no admission requirements for individuals interested in registering for most of the courses. Courses are offered in the fall, winter and summer semesters.

Required Courses:

- Human Resources Administration
- Organization and Management
- Finance and Accounting Concepts
- Occupational Health and Safety
- Salary Administration and Benefits
- Training and Development
- Labour-Management Relations
- Human Resource Planning
- Recruitment and Selection

One subject-appropriate Open Learning program elective course offered through distance education. For a list of subject-appropriate elective courses, please visit the website at: <http://www.hrdiploma.com>. Elective course must be pre-approved by the Manager, Program Development.

Optional Course:

- Introduction to Finance and Accounting

For more information and to apply to this program, visit <http://www.hrdiploma.com>.

English Language Certificate Program

The English Language Certificate Program is an intensive academic English program designed to prepare ESL students aged 18 and over for academic study at the undergraduate and graduate level. Classes in grammar, reading, writing, listening and speaking help students achieve the advanced level English skill needed to be successful in academic studies. Students who successfully complete the Advanced level earn the University of Guelph Certificate of English Proficiency, which meets the English proficiency requirements for entry into undergraduate and graduate studies at the University of Guelph and the University of Guelph-Humber. Applicants are encouraged to have an intermediate English skill level, and an academic goal to study at a university.

Equine Online Certificate Programs**Equine Science Certificate**

The Certificate consists of six distance education courses taken online. This program is designed to provide horse owners and those working in the equine industry with evidence-based knowledge to improve the health and performance of horses in their care.

Required Courses:

- Management of the Equine Environment
- Health & Disease Prevention
- Functional Anatomy
- Equine Nutrition

Elective Courses (Select two):

- Growth & Development
- Exercise Physiology
- Equine Behaviour
- Equine Genetics

For details and to apply, please see <http://www.equinesciencecertificate.com>

Certificate in Equine Business Management

The Certificate in Equine Business Management consists of six online courses and is designed for those interested in working in the business and management aspects of the equine industry. A selection of courses is offered each semester. Students who have completed or are currently registered in the Equine Science Certificate or Diploma in Equine Studies programs may opt to continue their studies in order to earn the Certificate in Equine Business Management.

Required Courses:

- Equine Business Management
- Management of the Equine Environment
- The Equine Industry
- Finance and Risk Management
- Marketing and Communication in the Equine Industry

Elective Courses (Select one):

- Equine Journalism
- Equine Event Management
- Stewardship of the Equine Environment

For details and to apply, please see <http://www.equinebusinesscertificate.com/>

Diploma in Equine Studies

The Diploma in Equine Studies is comprised of ten online courses and is designed to provide advanced knowledge for horse owners and those working in the equine industry. A selection of courses is offered each semester. Students who have completed or are currently registered in the Equine Science Certificate program may opt to continue their studies in order to earn the Diploma, and students new to the Diploma in Equine Studies will be provided with a comprehensive starting point.

Required Courses:

- Management of the Equine Environment
- Health & Disease Prevention
- Functional Anatomy
- Equine Nutrition
- Equine Behaviour
- Stewardship in the Equine Environment

Elective Courses (Select Four):

- Equine Growth & Development
- Equine Exercise Physiology
- Equine Genetics
- The Equine Industry
- Equine Business Management
- Finance and Risk Management
- Marketing and Communication in the Equine Industry
- Equine Journalism
- Equine Event Management

For details and to apply, please see <http://www.equinestudiesdiploma.com/>

Landscape/Horticulture Online Certificate Programs

The Landscape/Horticulture Online Certificate Programs include five certificates and over 20 online/web-based courses. Learners may enrol in one or more individual courses or study towards one or more of the certificates.

Creating Landscapes Certificate

The Creating Landscapes Certificate is designed to provide landscape designers, contractors and gardening enthusiasts with the training and skills necessary for creating desirable outdoor living environments. The program refers to historical influences on modern landscape design and discusses the Design Process. Other topics include management principles for operating a successful business, the physical properties and uses of landscape construction material, and incorporating computer technology in creating successful designs.

Required Courses:

- Landscape Design I

- Landscape Design II
- Introduction to Landscape Construction
- Introduction to Plant Identification
- Computer Assisted Design
- Business Management Principles

For details and to apply, please see <http://www.horticulturecertificates.com/>.

Maintaining Golf Courses Certificate

The Maintaining Golf Courses Certificate is designed to provide turf managers and golf superintendents with turf identification and management skills, insight into golf course design and construction techniques, tree care, and other best management practices related to the care of golf courses. Challenges such as maintaining healthy playing conditions while respecting environmental needs such as wildlife and water quality are also examined.

Required Courses:

- Turf Management
- Irrigation
- Golf Course Design and Construction
- Weed Management in Turf
- Arboriculture
- Environmental Management of the Golf Course

For details and to apply, please see <http://www.horticulturecertificates.com/>.

The Horticulturist Certificate

The Horticulturist Certificate is designed especially for gardeners wishing to enhance their knowledge and skills relating to the residential garden environment. The impact of soil conditions are a critical aspect of this study program. Basic horticulture and botany are discussed as are principles of plant care for ensuring optimum health. Students will learn about common plant pests and diseases and their effective treatments. They will also learn to understand how beautiful and functional landscapes are the result of good design strategies and tactics.

Required Courses:

- Cultural Practices for Plants
- Introduction to Plant Identification
- Designing the Landscape
- Ornamental Plant Protection
- Introduction to Soils and Plant Growth
- Weed Management in Horticulture
- Growing Plants

For details and to apply, please see <http://www.horticulturecertificates.com/>.

Growing Plants for Profit Certificate

In the Growing Plants for Profit Certificate, students will learn how to effectively grow healthy crops while at the same time implementing sound business practices. Plant propagation techniques are thoroughly discussed as are the specifics of both greenhouse and nursery production. Business skills are offered to guide students through the complexities of running a profitable business operation. Plant identification techniques ensure that learners have a good understanding of the most exciting product choices.

Required Courses:

- Commercial Greenhouse Crop Production
- Introduction to Plant Identification
- Greenhouse Management
- Nursery Production
- Plant Propagation
- Business Management Principles

For details and to apply, please see <http://www.horticulturecertificates.com/>.

Sustainable Landscapes Certificate

The Sustainable Landscapes Certificate is designed for students who wish to learn about innovative strategies which help fortify the relationships between people, water and land, ensuring best care of natural environments. Design tactics to retain or enhance naturalized landscapes will be examined. Students will gain knowledge about tree health as it relates to both the individual plant and woodland communities.

Required Courses:

- Alternative Land Use Practices for Sustainable Landscapes
- Introduction to Plant Identification
- The Naturalized Landscape
- An Introduction to Woodland Ecology
- Arboriculture

For details and to apply, please see <http://www.horticulturecertificates.com/>.

Sustainable Urban Agriculture/Horticulture Online Certificate Programs

The Sustainable Urban Agriculture/Horticulture Online Certificate Programs include two certificates and nine online/web-based courses. Learners may enrol in one or more individual courses or choose a study path to obtain the certificates.

Sustainable Urban Agriculture Certificate

The Sustainable Urban Agriculture Certificate is designed for urban dwellers, city planners and community gardeners interested in growing food in sustainable manner to support families, neighbourhoods and communities.

Core Courses:

- Theory and Principles of Sustainable Urban Agriculture and Horticulture
- Fundamentals of the Role of Plants in Urban Sustainability
- Sustainable Urban Crop Production
- Food Processing and Urban Gardening

Elective Courses - choose one of the following:

- Ecology of Gardens and Landscapes in an Urban Environment
- Agricultural Plant Identification for Urban Gardeners
- Business Management Principles

For details and to apply, please see <http://www.urbanhort.ca>.

Sustainable Urban Horticulture Certificate

The Sustainable Urban Horticulture Certificate focuses on the environmental, social and economic implications of horticulture in our cities. The program is designed for landscape designers and builders, municipal planners and environmental advocates interested in micro-economic sustainability and maximizing aesthetic and property values through innovative garden design.

Core Courses:

- Theory and Principles of Sustainable Urban Agriculture and Horticulture
- Fundamentals of the Role of Plants in Urban Sustainability
- Naturalizing and Restoring Urban Gardens
- Sustainability, Economics and Horticulture

Elective Courses - choose one of the following:

- Ecology of Gardens and Landscapes in an Urban Environment
- Human Well-Being and the Urban Garden Environment
- Introduction to Plant Identification

For details and to apply, please see <http://www.urbanhort.ca>.

Professional Association Affiliations

Several courses have been approved by the following associations and may be applied to each association's respective professional programs:

[Association of Administrative Assistants](#)

[Canadian Golf Superintendents Association](#)

[Canadian Payroll Association](#)

[Golf Course Superintendents Association of America](#)

[Human Resources Professionals Association of Ontario](#)

[Industrial Accident Prevention Association](#)

[Integrated Pest Management - Plant Health Care Council](#)

[Ontario Association of School Business Officials](#)

[Ontario Association for Marriage and Family Therapy](#)

[Purchasing Management Association of Canada](#)

Summer Studies (Summer Semester)

Because the university operates on a three semester system, a broad range of course offerings is available in the Summer Semester (May to August). During the summer months, degree credit courses are offered in a variety of formats to meet the needs of full-time and part-time students both on-campus and off-campus. In addition to regular semester courses running from May to August, there is a summer session (May to June) when degree courses are offered in a six week format. For scheduling information consult the Undergraduate Timetable, available from the Academic Records Section, in the University Centre, Level 3.

Distance education opportunities are also available during the summer. For further details, contact the Office of Open Learning, Room 160, Johnston Hall, by email: info@open.uoguelph.ca, by phone 519-767-5000 or <http://www.open.uoguelph.ca/>