

2005-2006 Undergraduate Calendar

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2005-2006 academic year, including the Summer Semester 2005, the Fall Semester 2005 and the Winter Semester 2006.

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

Contact Information:



University of Guelph
Guelph, Ontario, Canada
N1G 2W1
519-824-4120
<http://www.uoguelph.ca>

Revision Information:	
February 1, 2005	Initial Publication
February 28, 2005	Second Publication
April 8, 2005	Third Publication
May 20, 2005	Fourth Publication
July 19, 2005	Fifth Publication
September 28, 2005	Sixth Publication
October 18, 2005	Seventh Publication



Disclaimer

University of Guelph 2005

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2005-2006 academic year, including the Summer Semester 2005, the Fall Semester 2005 and the Winter Semester 2006.

The University reserves the right to change without notice any information contained in this calendar, including 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, 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

Editor: A.H. Goody, Associate Registrar

Assistant Editor: S.Holley, Program Co-ordinator

Table of Contents

XI. Special Study Opportunities	338
Certificates and Diplomas	338
Certificate in Environmental Citizenship	338
Certificate in Environmental Conservation	338
Certificate in Food Science	338
Certificate in Hospitality Studies	338
Certificate in Leadership	338
Diploma in Applied Statistics	339
Diploma in Public Policy and Administration	339
Co-operative Education	339
Distance Education	339
General Studies	340
Academic Counselling	340
Financial Assistance	341
Schedule of Studies	341
Tuition Fees	341
Undergraduate Regulations	341
Graduate Studies	341
Interdisciplinary Studies	341
Bachelor of Arts	341
Bachelor of Commerce	341
Bachelor of Science (Biological Science)	341
Bachelor of Science in Environmental Sciences	341
Open Learning	341
The Office of Open Learning	341
The Open Learning Program	341
Continuing Education Option	341
Guaranteed Admission to a B.A. Program	341
Open Learning Program Certificates and Diplomas	341
Open Learning Program Courses*	341
Open Learning Scholarships/Bursaries	342
Distance Education	342
Continuing Education	342
Summer Studies (Summer Semester)	343

XI. Special Study Opportunities

Certificates and Diplomas

The University offers certificate and diploma programs in Applied Statistics, Environmental Citizenship, Environmental Conservation, Food Science, Hospitality Studies, Leadership, and Public Policy and Administration. 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.

Individuals who are not currently registered in a degree program should apply through the Office of Open Learning. Please consult with the Program Counsellor for Open Learning (ext. 56050). Individuals who are currently enrolled in a degree program should apply through the Admissions Office at the University of Guelph. Please consult with the Admissions Counsellor (ext. 56060)

For those who are in a degree program or who will be transferring into a degree program, there will be a restriction as to the number of courses which can be used for both a certificate/diploma and a degree specialization. Up to 50% of the requirements for a degree-credit certificate can be applied towards a degree. Note that the Certificate in Leadership is exempt from this restriction.

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 6 courses total, to include at least one at the 3000 or 4000 level:

Required Course

UNIV*2050*DE [0.50] The 5000 Days

2 or 3 of the following:

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
 GEOG*1220*DE [0.50] Human Impact on the Environment
 HIST*2250*DE [0.50] Environment and History
 PHIL*2070*DE [0.50] Philosophy of the Environment
 POLS*3370*DE [0.50] Environmental Policy Formation and Administration
 SOIL*2120*DE [0.50] Introduction to Environmental Stewardship
 UNIV*3250*DE [0.50] Beyond the 5000 Days
 UNIV*4500*DE [0.50] Planning Industrial Ecology

2 or 3 of the following:

BIOL*2060*DE [0.50] Ecology
 BOT*1200*DE [0.50] Plants and Human Use
 ENVB*3000*DE [0.50] Nature Interpretation
 GEOG*2210*DE [0.50] Environment and Resources
 GEOG*3210*DE [0.50] Management of the Biophysical Environment
 MET*1000*DE [0.50] The Atmospheric Environment
 UNIV*3400*DE [0.50] Watershed Planning Practice
 ZOO*1500*DE [0.50] Humans in the Natural World - a Zoological Perspective
 ZOO*2050*DE [0.50] Natural History of Ontario

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 6 courses total, to include at least one at the 3000 or 4000 level:

Required Course

SOIL*2120*DE [0.50] Introduction to Environmental Stewardship

2 or 3 of the following:

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
 MET*1000*DE [0.50] The Atmospheric Environment
 SOIL*2010*DE [0.50] Soil Science
 SOIL*3080*DE [0.50] Soil and Water Conservation
 UNIV*3400*DE [0.50] Watershed Planning Practice

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
 GEOG*2210*DE [0.50] Environment and Resources
 GEOG*3210*DE [0.50] Management of the Biophysical Environment
 ZOO*2050*DE [0.50] Natural History of Ontario

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 Services is offered online from the University of Guelph's School of Hospitality and Tourism Management. 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.

Prior Learning Assessment is in place for this Certificate to evaluate and recognize your experience and previous education, including seminars, workshops and corporate training programs. You may receive credit to a maximum of one credit towards one of the required courses. See Chapter VIII, Prior Learning Assessment, for more information. Individuals interested in PLA should consult with the Program Counsellor at the Office of Open Learning (ext. 56050)

The Certificate requires one of following introductory courses in addition to the four required courses listed below:

One of:

HTM*1000*DE [0.50] Introduction to Hospitality and Tourism Management
 HTM*2150*DE [0.50] Introduction to Canadian Business Management

Required Courses

HTM*2030*DE [0.50] Control Systems in the Hospitality and Tourism Industry
 HTM*2200*DE [0.50] Organizational Behaviour I
 HTM*3000*DE [0.50] Human Resources Management
 HTM*3070*DE [0.50] Hospitality and Tourism Management Accounting

Note: Required courses must be taken in order.

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

Certificate in Leadership

The Certificate in Leadership is offered by the University of Guelph through the Faculty of Management, College of Social and Applied Human Sciences. This certificate program allows undergraduate students to complete concurrently both their degree program and the certificate. 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 2.50 credits chosen from the lists below, plus 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. Students should consult with the Open Learning Program Counsellor at the Office of Open Learning (ext. 56050). Students who wish to enroll 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>.

1.00 credits from:

- UNIV*2000 [0.50] Foundations of Leadership
[students must contact the Office of Open Learning for instructor consent]
- UNIV*4000 [0.50] Leadership Capstone
[students must contact the Office of Open Learning for instructor consent]

0.50 credits from:

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

1.00 credits from:

- ENVS*2010 [0.50] Decision-making and Communication Skills
[restricted to B.Sc.Env. students only]
- HTM*2150 [0.50] Introduction to Canadian Business Management
[Note: B.Comm students may not take this course for credit in their degree program.]
- HTM*3000 [0.50] Human Resources Management
- ISS*2500 [0.50] Management in Organizations
- PHIL*2100 [0.50] Critical Thinking
- POLS*2250 [0.50] Public Administration
- POLS*3940 [0.50] Accountability and Canadian Government
- PSYC*3070 [0.50] Psychology in Human Resource Management
- PSYC*3080 [0.50] Organizational Psychology
- REXT*3040 [0.50] Communication Process
- REXT*3060 [0.50] International Communication
- REXT*4100 [0.50] Leadership Development in Rural Organization
- SOAN*2040 [0.50] Globalization of Work and Organizations

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

Diploma in Public Policy and Administration

The program is designed for those who wish to develop their skills in public sector management and public policy analysis. The requirement of 5.00 credits for the diploma is divided into 2 groups of courses: required courses and elective courses.

Students are encouraged to consult the Diploma in Public Policy and Administration program coordinator or Chair of the Department of Political Science with regard to the availability and on-going development of distance education courses.

Required Courses

- POLS*1400*DE [0.50] Public Management and Administration
- POLS*2250*DE [0.50] Public Administration
- POLS*3250 [0.50] Public Policy: Challenges and Prospects
- POLS*3440*DE [0.50] Corruption, Scandal and Political Ethics
- POLS*4250 [0.50] Problems in Public Administration and Public Policy

Electives - at least 2.50 credits must be chosen from the following:

- POLS*2300*DE [0.50] Canadian Government
- POLS*3110 [0.50] Politics of Ontario
- POLS*3210 [0.50] The Constitution and Canadian Federalism
- POLS*3270 [0.50] Local Government in Ontario
- POLS*3280 [0.50] Modern Political Ideologies
- POLS*3330 [0.50] Politics and Trade Liberalization in the Americas
- POLS*3370*DE [0.50] Environmental Policy Formation and Administration

- POLS*3470 [0.50] Business-Government Relations in Canada
- POLS*3670 [0.50] Comparative Public Policy and Administration

Co-operative Education

Co-operative Education options are offered in 28 majors. Co-op provides eligible students with the opportunity to alternate semesters of academic study with semesters of paid work experience. The work experience is related to the student's academic program and/or career objectives. Admission can occur directly into semester 1 or in-course (but not beyond Academic Semester 3).

For further details refer to information on Co-operative Education in Section X--Degree Programs. Course requirements and work study 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, audiotapes, audio CDs, DVDs, computer diskettes, CD-ROMs, etc., depending on the nature of the course. As well, most courses incorporate computer conferencing, e-mail, 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--Description of Courses for course descriptions. Because additional courses are constantly being developed, please consult the Office of Open Learning, Room 160, Johnston Hall, 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.

- AGEC*2220*DE [0.50] Financial Accounting
- AGEC*2230*DE [0.50] Management Accounting
- AGEC*2300*DE [0.50] Organic Marketing
- ANTH*1150*DE [0.50] Anthropology
- BIOL*2060*DE [0.50] Ecology
- BIOL*2210*DE [0.50] Introductory Cell Biology
- BIOL*3450*DE [0.50] Introduction to Aquatic Environments
- BIOM*2000*DE [0.50] Concepts of Physiology
- BOT*1200*DE [0.50] Plants and Human Use
- BOT*2000*DE [0.50] Plants, Biology and People
- CHEM*1060*DE [0.50] Introductory Chemistry
- 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*1900*DE [0.50] Discrete Structures in Computer Science
- CIS*2100*DE [0.50] Scientific Computing and Applications Development
- COST*1000*DE [0.50] Introduction to Marketing Management
- COST*2020*DE [0.50] Information Management
- COST*2100*DE [0.50] Personal Financial Management
- COST*3030*DE [0.50] Research Methods
- DRMA*2500*DE [0.50] Contemporary Cinema
- ECON*1050*DE [0.50] Introductory Microeconomics
- ECON*1100*DE [0.50] Introductory Macroeconomics
- ECON*2100*DE [0.50] Economic Growth and Environmental Quality
- ECON*2150*DE [0.50] Introduction to Business Economics
- ECON*2310*DE [0.50] Intermediate Macroeconomics
- ECON*2410*DE [0.50] Intermediate Macroeconomics
- ECON*3560*DE [0.50] Theory of Finance
- ECON*3660*DE [0.50] Economics of Equity Markets
- EDRD*3500*DE [0.50] Recreation and Tourism Planning
- EDRD*3550*DE [0.50] Economic Development for Rural and Smaller Communities
- EDRD*4010*DE [0.50] Tourism Planning in the Less Developed World
- ENGL*1200*DE [0.50] Reading the Contemporary World
- ENGL*1410*DE [0.50] Major English Writers
- ENGL*2640*DE [0.50] Culture, Location, Identity: Minoritized Literatures in Canada and Beyond
- ENVB*2210*DE [0.50] Introductory Apiculture
- ENVB*3000*DE [0.50] Nature Interpretation
- ENVB*3040*DE [0.50] Natural Chemicals in the Environment

ENVB*4780*DE [0.50]	Forest Ecology	POLS*3440*DE [0.50]	Corruption, Scandal and Political Ethics
EURO*1050*DE [0.50]	The Emergence of a United Europe	POLS*3940*DE [0.50]	Accountability and Canadian Government
EURO*2070*DE [0.50]	European Integration, 1957-1992	PSYC*1100*DE [0.50]	Principles of Behaviour
FOOD*2010*DE [0.50]	Principles of Food Science	PSYC*1200*DE [0.50]	Dynamics of Behaviour
FOOD*2400*DE [0.50]	Introduction to Food Chemistry	PSYC*2010*DE [0.50]	Quantification in Psychology
FOOD*2410*DE [0.50]	Introduction to Food Processing	PSYC*2310*DE [0.50]	Introduction to Social Psychology
FOOD*2420*DE [0.50]	Introduction to Food Microbiology	PSYC*2360*DE [0.50]	Introductory Research Methods
FOOD*3430*DE [0.50]	Introduction to Food Analysis	PSYC*2390*DE [0.50]	Principles of Sensation and Perception
FOOD*4010*DE [0.50]	Food Plant Sanitation and Quality Control	PSYC*2450*DE [0.50]	Introduction to Developmental Psychology
FOOD*4070*DE [0.50]	Food Packaging	PSYC*2650*DE [0.50]	Cognitive Psychology
FREN*1050*DE [0.50]	Basic French: Writing	PSYC*2740*DE [0.50]	Personality
FREN*1090*DE [0.50]	Basic French: Reading	PSYC*3010*DE [0.50]	Compensation Systems
FREN*1100*DE [0.50]	Basic French: Listening	PSYC*3020*DE [0.50]	Psychology of Law
FREN*2500*DE [0.50]	French Translation I	PSYC*3060*DE [0.50]	Occupational Health Psychology
FRHD*1010*DE [0.50]	Human Development	PSYC*3070*DE [0.50]	Psychology in Human Resource Management
FRHD*1020*DE [0.50]	Couple and Family Relationships	PSYC*3080*DE [0.50]	Organizational Psychology
FRHD*2060*DE [0.50]	Adult Development and Aging	PSYC*3090*DE [0.50]	Training and Development
FRHD*2100*DE [0.50]	Development of Human Sexuality	PSYC*3220*DE [0.50]	Ergonomics: the Scientific Study of People-System Relationships
FRHD*2110*DE [0.50]	Exceptional Children and Youth	PSYC*3250*DE [0.50]	Psychological Measurement
FRHD*2260*DE [0.50]	Infant Development	PSYC*3340*DE [0.50]	Psycholinguistics
FRHD*2270*DE [0.50]	Development in Early and Middle Childhood	PSYC*3390*DE [0.50]	Abnormal Psychology
FRHD*2280*DE [0.50]	Adolescent Development	PSYC*3480*DE [0.50]	Psychology of Sport
FRHD*3190*DE [0.50]	Administration of Programs for Children and Youth	PSYC*3570*DE [0.50]	The Psychology of Death and Dying
GEOG*1200*DE [0.50]	Society and Space	PSYC*3710*DE [0.50]	Psychology of Learning Difficulties and Disabilities I
GEOG*1220*DE [0.50]	Human Impact on the Environment	PSYC*3800*DE [0.50]	Psychology and Education
GEOG*1300*DE [0.50]	Introduction to the Biophysical Environment	PSYC*3850*DE [0.50]	Intellectual Disabilities
GEOG*2210*DE [0.50]	Environment and Resources	REXT*3040*DE [0.50]	Communication Process
GEOG*3020*DE [0.50]	Global Environmental Change	REXT*3060*DE [0.50]	International Communication
GEOG*3210*DE [0.50]	Management of the Biophysical Environment	REXT*3080*DE [0.50]	Technology in Extension
GEOG*3490*DE [0.50]	Tourism and Environment	SOAN*2400*DE [0.50]	Introduction to Gender Systems
GEOL*1100*DE [0.50]	Principles of Geology	SOC*1100*DE [0.50]	Sociology
GEOL*2250*DE [0.50]	Geology of Natural Disasters	SOC*1500*DE [0.50]	Crime and Criminal Justice
HIST*1150*DE [0.50]	20th-Century Global History	SOC*2070*DE [0.50]	Social Deviance
HIST*2000*DE [0.50]	The British Isles, 1066-1603	SOC*2750*DE [0.50]	Serial Murder
HIST*2040*DE [0.50]	War and Society	SOC*3490*DE [0.50]	Law and Society
HIST*2070*DE [0.50]	World Religions in Historical Perspective	SOIL*2010*DE [0.50]	Soil Science
HIST*2250*DE [0.50]	Environment and History	SOIL*2120*DE [0.50]	Introduction to Environmental Stewardship
HIST*2450*DE [0.50]	Historical Methods	SOIL*3080*DE [0.50]	Soil and Water Conservation
HIST*2610*DE [0.50]	Contemporary Canadian Issues	SOIL*3300*DE [0.50]	Land Resource Stewardship
HIST*2830*DE [0.50]	The Emergence of Modern Germany 1871-1990	SPAN*1100*DE [0.50]	Introductory Spanish
HIST*3020*DE [0.50]	Sexuality and Gender in History	SPAN*1110*DE [0.50]	Intermediate Spanish
HIST*3030*DE [0.50]	Celtic Britain and Ireland to 1066	STAT*2060*DE [0.50]	Statistics for Business Decisions
HIST*3140*DE [0.50]	Witch-hunts and Popular Culture	UNIV*2050*DE [0.50]	The 5000 Days
HIST*3530*DE [0.50]	Celtic Britain and Ireland Since 1603	UNIV*3250*DE [0.50]	Beyond the 5000 Days
HIST*3540*DE [0.50]	World War Two	UNIV*3400*DE [0.50]	Watershed Planning Practice
HIST*4050*DE [0.50]	Topics in Scottish History	UNIV*4500*DE [0.50]	Planning Industrial Ecology
HORT*1060*DE [0.50]	Plant Identification I. Woody Landscape Plants	WMST*1000*DE [0.50]	Introduction to Women's Studies
HTM*1000*DE [0.50]	Introduction to Hospitality and Tourism Management	ZOO*1500*DE [0.50]	Humans in the Natural World - a Zoological Perspective
HTM*2030*DE [0.50]	Control Systems in the Hospitality and Tourism Industry	ZOO*2050*DE [0.50]	Natural History of Ontario
HTM*2150*DE [0.50]	Introduction to Canadian Business Management		
HTM*2200*DE [0.50]	Organizational Behaviour I		
HTM*3000*DE [0.50]	Human Resources Management		
HTM*3070*DE [0.50]	Hospitality and Tourism Management Accounting		
HTM*3180*DE [0.50]	Casino Operations Management		
HTM*4160*DE [0.50]	Human Resources Planning		
LARC*1950*DE [0.50]	History of Cultural Form I		
LARC*4610*DE [0.50]	Professional Practice		
MATH*1000*DE [0.50]	Introductory Calculus		
MATH*2150*DE [0.50]	Applied Matrix Algebra		
MBG*3600*DE [0.25]	Introduction to Genomics		
MET*1000*DE [0.50]	The Atmospheric Environment		
MUSC*1060*DE [0.50]	Introduction to Music		
MUSC*1120*DE [0.25]	Introduction to Musicianship		
MUSC*2140*DE [0.50]	History of Jazz		
MUSC*2280*DE [0.50]	Masterworks of Music		
NUTR*1010*DE [0.50]	Nutrition and Society		
NUTR*2050*DE [0.50]	Family and Community Nutrition		
PATH*3610*DE [0.50]	Principles of Disease		
PHIL*2070*DE [0.50]	Philosophy of the Environment		
PHIL*2100*DE [0.50]	Critical Thinking		
PHYS*1020*DE [0.50]	Introductory Physics		
PHYS*1600*DE [0.50]	Contemporary Astronomy		
POLS*1400*DE [0.50]	Public Management and Administration		
POLS*1500*DE [0.50]	World Politics		
POLS*2250*DE [0.50]	Public Administration		
POLS*2300*DE [0.50]	Canadian Government		
POLS*3370*DE [0.50]	Environmental Policy Formation and Administration		

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, VCR, audio cassette recorder, 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 Public Policy and Administration, the Certificate in Food Science, the Certificate in Hospitality Studies, the Certificate in Environmental Citizenship, the Certificate in Environmental Conservation 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 2 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, application forms, and counselling are available through the graduate coordinators of each department/school. 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 Engineering (M.Eng.), Master of Science in Aquaculture (M.Sc. Aqua), Master of Business Administration (M.B.A.), Master of Fine Art (M.F.A.), Master of Science in Planning (M.Sc. Plan), Master of Applied Nutrition (M.A.N.), 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
Women's Studies

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 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 are not required to complete assignments or related exams.

Further information is available from the Office of Open Learning, Room 160 Johnston Hall, by e-mail: 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 2 courses (1.00 credit) from the College of Arts and 2 courses (1.00 credit) in the Social Sciences.

Open Learning Program Certificates and Diplomas

Certificate in Environmental Citizenship
Certificate in Environmental Conservation
Certificate in Food Science
Certificate in Hospitality Services
Certificate in Leadership
Diploma in Public Policy and Administration

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

Open Learning Program Courses*

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

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

Open Learning Scholarships/Bursaries

Open Learning Bursaries

The Office of Open Learning (OOL) staff and friends have established and contribute annually to a bursary fund, which initially will provide two \$250 awards. These funds are intended to provide support for non-degree students, in need of financial assistance, who are wishing to enroll in an Office of Open Learning continuing education activity and/or in the Open Learning program (courses, certificates and diplomas). Apply to the Office of Open Learning by January 30th and July 30th for the following Fall and/or Winter and/or Summer semesters of study with a letter of application outlining financial need with pertinent supporting documentation. Applications must be submitted to: OOL Bursary Award Committee, Office of Open Learning, University of Guelph, Johnston Hall Room 160, Guelph, Ontario, N1G 2W1.

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

Amount: Two awards of \$250.

The Malik Scholarship

Awarded in honor of retired faculty member Professor Henrick Malik, of the Department of Mathematics and Statistics in the College of Physical and Engineering Science.

Qualification(s): A student in the Open Learning program who achieves at least 80% and the highest final grade in a given year in the distance education course Statistics for Business Decisions (STAT*2060*DE)

Amount: One award of \$150

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, Room 160 Johnston Hall, 767-5000, info@open.uoguelph.ca, or at www.open.uoguelph.ca.

Continuing Education

The Office of Open Learning annually offers over 70 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; e-mail: info@open.uoguelph.ca; website: www.open.uoguelph.ca; or visit us in room 160 Johnston Hall.

Certificate Program 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 and Methods of Family Therapy I

Theories and Methods of Family Therapy II

Theories and Methods of Couple Therapy

Elective Courses (Choose 3)

Violence in Families

Human Sexuality and Sex Therapy

Divorce, Single Parenting and Re-marriage

Change Strategies in Therapy

Research in Marriage and Family Therapy

Professional Ethics in Marriage and Family Therapy

Family Therapy and Mental Health

Spirituality: A New Story in Family Therapy

Diploma in Human Resources Management

Human resources management is a system of interrelated activities such as training and development, compensation management, and labour relations that work towards satisfying organizational goals and objectives. Typically, managers in smaller organizations are responsible for these activities in addition to other operational responsibilities. In larger organizations, the human resources department generally has subject specialists who oversee each function area. Regardless of how the system of activities is administered, individuals responsible for managing a group of employees should have a practical understanding of management tools and techniques to effectively work with the most important resource in their organizations - their people.

The Diploma in Human Resources Management program provides essential management foundation skills and knowledge with particular emphasis on relating practitioner principles, policies and procedures to "real world" situations. Courses in the Diploma meet the HRP AO academic program requirements. This program consists of ten courses and is designed to meet the learning needs of individuals who currently work in a human resources environment or who have ambition to do so.

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 of the following two courses by distance education:

PSYC*3070*DE [0.50] Psychology in Human Resource Management

PSYC*3080*DE [0.50] Organizational Psychology

English Language Certificate Program

The University of Guelph's English Language Certificate Program is an academic program designed to prepare students who are non-native English speakers for undergraduate and graduate degree studies.

The program prepares the student for university studies by focusing on the development of specific academic skills required for a successful university education. The elements of the English Language Certificate Program include academic preparation in grammar, reading, writing, listening and speaking.

Admitted participants are over 18, and have completed secondary school with good marks. They have achieved good scores on government university entrance exams (if applicable), have an intermediate level of English proficiency (approximately 450 TOEFL) and have an academic goal to study at university.

Online Certificate in Academic Writing

The Certificate in Academic Writing is an online distance program designed for people who wish to polish their written communication and achieve a skilled level of academic writing. The program is designed for those for whom English is a second language. Three courses make up the certificate: Introduction to Academic Writing, Intermediate Academic Writing and Advanced Academic Writing.

Online Academic Writing at the Graduate Level

This online course introduces future and current graduate students to the writing requirements of graduate study in a Western university. Students study and analyze different types (genres) of writing from the three disciplinary areas of arts, the physical and natural sciences, and the social sciences in order to better understand these texts' function, audience and organization. These texts include abstracts, research proposals and thesis chapters. Through a small selection of readings, students are also introduced to the cultural dimension of graduate study at a Western university.

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 industry with evidence based knowledge to improve the health and performance of horses in their care.

The courses are as follows:

Management of the Equine Environment

Equine Exercise Physiology

Equine Health and Disease Prevention

Equine Functional Anatomy

Growth and Development

Equine Nutrition

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

Landscape/Horticulture Online Certificate Programs

Creating Landscape Certificate

The Creating Landscapes Certificate is designed to provide landscape designers, contractors and gardening enthusiast with the training and updating necessary for creating desirable outdoor living environments. The program focuses on historical influences on modern landscape design and 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
Landscape Design II
Landscape Construction
Landscape Plants
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, insights into golf course design and construction techniques, tree care and other best management practices related to the environmental care of golf courses. Challenges such as maintaining healthy playing conditions while respecting environmental needs such as wildlife health and water quality are also examined.

Required Courses:

Turf Management
Irrigation
Golf Course Design and Construction
Weed Management in Turf
Tree Ecology in the Human Environment
Environmental Management of the Golf Course
For details and to apply, please see <http://www.horticulturecertificates.com/>.

The Horticulturist Certificate

This online 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 is 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 begin to create beautiful and hardy landscapes through innovative residential garden design tactics and strategies.

Required Courses:

Cultural Practices for Plants
Introduction to Plant Identification
Designing the Landscape
Ornamental Plant Protection
Introduction to Soil Science
Weed Control in Horticulture
The Home Gardener
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 Floriculture
Landscape Plants
Greenhouse Management
Nursery Production
Plant Propagation
Business Management Principles
For details and to apply, please see <http://www.horticulturecertificates.com/>.

Sustainable Landscape Certificate

The Sustainable Landscapes Certificate is designed for students who wish to learn about innovative strategies which help to fortify the relationships between water and land, ensuring care of both environments. Design tactics to retain or enhance naturalized

landscapes will be examined. Students will enhance their knowledge about tree health as it relates to both the individual part and woodland communities.

Required Courses:

Land and Water Resources
Landscape Plants
The Naturalized Landscape
Conserving Woodlands
Tree Ecology in the Human Environment
For details and to apply, please see <http://www.horticulturecertificates.com/>.

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
Certified Crop Advisers
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 Board Officials
Ontario Association for Marriage & 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 in Johnston Hall.