

# 2008-2009 Diploma Program Calendar

The information published in this Diploma Calendar outlines the rules, regulations, curricula, programs and fees for the 2008-2009 academic year, including the Summer Semester 2008, the Fall Semester 2008 and the Winter Semester 2009.

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

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

Campus d'Alfred

Kemptville Campus

Guelph Campus

Ridgetown Campus

The University is a full member of:

- The Association of Universities and Colleges of Canada

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The logo for the University of Guelph, featuring the text "UNIVERSITY of GUELPH" in a stylized font.The tagline "CHANGING LIVES IMPROVING LIFE" in a bold, sans-serif font.

# **Disclaimer**

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## **University of Guelph 2008**

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The information published in this Diploma Calendar outlines the rules, regulations, curricula, programs and fees for the 2008-2009 academic year, including the Summer Semester 2008, the Fall Semester 2008 and the Winter Semester 2009.

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.

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## **Introduction**

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### **Collection, Use and Disclosure of Personal Information**

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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/DBLaws/Statutes/English/90f31\\_e.htm](http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31_e.htm). 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**

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

### **Address for University Communication**

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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**

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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**

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Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through the Registrar's office.

#### **Name Changes**

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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**

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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>.



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## II. The University

The University of Guelph combines a tradition dating back 125 years with a progressive outlook that has made it one of Canada's leading research institutions. Our roots go back to the Ontario Agricultural College, Ontario Veterinary College and Macdonald Institute. These three colleges were the basis of the new university, established in 1964, and remain essential components of a much expanded and diversified institution that now includes programs in the physical and biological sciences, the arts, the social sciences, and family and social relations.

### The Regional Campuses

In 1997 Ontario's three agricultural campuses at Alfred, Kemptville and Ridgeway became part of the University under an enhanced partnership between the University and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and began to offer diploma courses for the University of Guelph Associate Diploma Program. The University of Guelph is co-educational, non-denominational and provincially supported.

With an estimated \$145 million in research funding, the University of Guelph is one of the country's top research institutions. Among its researchers, Guelph numbers 19 Fellows of the Royal Society of Canada. A 12-acre research park adjacent to the campus is home to a growing number of research-intensive industries.

In the University's aims document, *Toward 2000: Challenges and Responses*, a commitment is made to teaching, research and service in the community. The University must exercise a moral concern for all its members, the document says "...and for the effects of the institution's actions on society and the environment." It must also "...maintain a collegial atmosphere in which free and open debate on major issues can contribute to their resolution."

### Academic Organization

- College of Arts
- College of Biological Science
- College of Management and Economics
- College of Physical and Engineering Science
- College of Social and Applied Human Sciences
- Ontario Agricultural College
  - Campus d'Alfred
  - Kemptville Campus
  - Ridgeway Campus
  - Faculty of Management
  - School of Environmental Design and Rural Development
- Ontario Veterinary College
- Ontario Veterinary College
- University of Guelph-Humber

For a listing of Centres and Institutes associated with the University of Guelph, see <http://www.uoguelph.ca/research/>

### Enrolment Statistics

Enrolment Statistics and Systems, Office of Registrarial Services (November 1, 2007)

Enrolment at the University of Guelph	
Associate Diploma Programs (O.A.C.)	55
Undergraduate Degree Programs - University of Guelph	17,283
Undergraduate Degree Programs - University of Guelph-Humber	2,544
Graduate Degree Programs	2,330
Total Enrolment (full- and part-time)	22,157
Enrolment in Associate Diploma and Certificate Programs	
Campus d'Alfred	122
Ontario Agricultural College	224
Kemptville Campus	293
Ridgeway Campus	427
Total Enrolment (full- and part-time)	1,092

### Learning Objectives

Arising from the Aims and Objectives Report, the following objectives were approved by the Senate of the University in 1987.

1. Literacy
2. Numeracy

3. Sense of Historical Development
4. Global Understanding
5. Moral Maturity
6. Aesthetic Maturity
7. Understanding of Forms of Inquiry
8. Depth and Breadth of Understanding
9. Independence of Thought
10. Love of Learning

They are a set of objectives described in terms of the desired characteristics of educated graduates, and are used in part to guide educators in their development of courses and programs. Their descriptions are as follows:

#### 1. Literacy

Literacy is the base on which all else is predicated. The ability to read and write and in general to communicate properly is a fundamental intellectual tool. With it, students can learn to think clearly and to some purpose. Without it, they cannot analyze properly nor develop an independence of thought. Literacy affords a means of access to the raw material upon which the critical or creative intelligence is to be exercised. It affords a means of communication, of shaping ideas and concepts, of selecting between different or competing formulations. It is a means of instructing others.

The most basic experience in literacy given to the student should be the writing of a short expository paper, or the oral presentation of an informational report, on a prescribed topic or on a topic chosen from a restricted list.

At the next level the student should be required to write a paper (or give a seminar) critical and analytical in its intent, on a topic of the student's devising. The ability to devise a topic, to frame its bounds, is at the same time an aspect of understanding of first order importance.

At the highest level there should be produced a paper, in an appropriate style, that analyzes, synthesizes, or argues from a hypothesis and itself generates hypotheses; that produces knowledge, insight, or understanding in the reader and manifests it on the part of the writer; that shows a breadth of understanding in drawing out implications and making connections between remote features of the domain; that, in short, demonstrates a love of learning and an intelligent creativity. This requirement may readily be met in existing senior honours paper courses and the like.

Over the course of an undergraduate education the level of difficulty of the material which the student can read, comprehend, and utilize should increase. One way of securing this might be to encourage, in each discipline program where they do not now exist, reading courses requiring independent work at the 4000 level.

In general, the ability to read and comprehend materials of the highest difficulty is enhanced in semester-long research paper courses and in reading courses. Such courses contribute also to independence of thought and to depth and breadth of understanding.

In its broadest sense, the objective of literacy implies that it is desirable that the student have skill in another language, so as to be able to comprehend material of the appropriate level of sophistication in that language.

#### 2. Numeracy

For the purposes of this discussion numeracy may be defined as the ability to use mathematics at a level and in a manner appropriate to good citizenship and to vocational fitness. Mathematics deals with quantity and form, with measurement, structures, and relations, and encompasses a richer intellectual domain than just the utilitarian skills of numerical computation. It is as a mode of thinking, no less than as a collection of useful techniques, that it justifies its place in any well-rounded curriculum.

Numeracy, in the sense adopted here, is an essential attribute of the informed and responsible citizen. A correct understanding of the proper use of numbers is necessary in a culture in which information routinely comes in numeric form and significant decisions of social policy often have quantification at their base. Without the ability to comprehend the use of quantitative data, and to detect instances of misuse, we may have to forego opportunities for independent judgment.

Numeracy, more generally, enforces an accuracy and precision of procedure and thought that is valuable to all educated persons. As a mode of conceptualization, of thought, it should be part of the mental apparatus of all graduating students. While a grasp of the nature and principles of mathematical forms of inquiry is essential to an understanding of scientific thought, it can be of benefit in other areas of intellectual activity. Opportunities for fostering numeracy exist in more disciplines than those traditionally requiring a substantial knowledge of mathematics. A recognition that numeracy in association with literacy forms the foundation of most if not all of the other learning objectives, should result in greater exploitation of those opportunities than in their avoidance.

#### 3. Sense of Historical Development

All disciplines have a history, an understanding of which contributes to an understanding of the place each has in contemporary society. No discipline is self sufficient, and no discipline is autonomous. "Historical development" should not be narrowly construed to mean only the history of the discipline within its own limits, but efforts should be made to connect developments in the discipline to wider coeval social conditions. Students may

thereby be endowed with a sense of the fundamental relativity of knowledge and understanding at any given time.

This objective comports also a sense of the continuity of change (and, indeed, of discontinuities), over time.

This objective may facilitate the acceptance, on the part of students, of intellectual ambiguity or uncertainty; such acceptance is a mark of depth of understanding.

#### **4. Global Understanding**

Global understanding may be associated with "Sense of Historical Development". It can be described as comprehension of the variety of political, religious, cultural, geographical, biological, environmental, and historical forces in the shaping of nature and the human condition. It conveys to the student an understanding of the ways in which specific cultural or geographical or other circumstances condition the differences between nations or peoples, and an understanding of the place of his or her discipline in the international setting. Global understanding may be enhanced by a sense of historical perspective, by breadth of understanding, and by independence of thought. In its turn it may itself contribute to these.

#### **5. Moral Maturity**

Moral maturity is marked by depth and consistency of moral judgment; by recognition that any moral judgment may be fallible; that moral judgment is complex, in that moral principles, if they are to be applied to a specific case, may need to be interpreted. Moral maturity is a requirement in the person who is to apply a body of knowledge or a skill to the solution of a problem, or to the understanding of a situation, if the knowledge is not to remain abstract and the skill potential unrealized.

Attainment of this objective is probably best realized by appropriate consideration of moral issues in context, as they arise in the course of study. In this way, a moral perspective may be shown to be inherently important to study of a body of material, and not merely something supplementary to it (guidelines for conducting ethical discussion in the classroom have been written by the Ethics Research Group in the Department of Philosophy).

Scope for demonstration of moral maturity can be provided in seminars and other assignments, if problems in the moral issues associated with a subject are set for consideration alongside problems in content and process.

#### **6. Aesthetic Maturity**

Aesthetic maturity may be described as a quality of the critical response to some object, natural or artificial, external to the self. Or it may be a process of creation and development of the self. In the former case, aesthetic maturity may be attained by a sufficient exposure, not necessarily in courses alone, to works of art (inclusive of music, literature, and drama) and to the critical traditions concerning them. Such maturity may also be directed at aesthetic valuing of features of the natural environment.

In the latter case, attainment of the quality will require an active involvement in the work of creation itself. A different order of aesthetic maturity may be attained by practice of that form of manipulation and recreation of the original object known as criticism (as distinct from appreciation).

Viewed this way, aesthetic maturity has a certain resemblance to both independence of thought and depth of understanding, in requiring an active creativity.

Aesthetic maturity need not be divorced from the specific character of individual disciplines. By possession and exercise of aesthetic maturity, students may be brought to appreciate the order, elegance, and harmony not only of the subject matter, but also of the procedures, of the discipline.

#### **7. Understanding of Forms of Inquiry**

Inquiry, the search for truth, information, knowledge and understanding, follows a methodology based upon systematic study, reflection, intuition and innate creativity. Inquiry involves resolving an identified problem, collecting relevant information, evaluating the information and observing relationships in order to reach a conclusion. The student is the active inquirer and must be able to undertake the process independently. Scientific method represents a form of inquiry concerned with hypotheses development, data collection, analyses and interpretation. Just as an understanding of scientific inquiry is necessary for the educated citizen functioning in the midst of the technologies of the contemporary world, so too an appreciation of other modes of inquiry is an essential characteristic of an educated citizen. Graduates should be familiar with the modes of inquiry utilized, for example, by historians, by philosophers and by scholars concerned with the various fields of creative expression.

As outcomes of this objective, students will understand the strengths and limitations of the various forms of inquiry, and the cultural, intellectual and historic impact of these forms. The student will be able to describe similarities and differences between the inquiry methods of the physical scientist, the biological scientist, the social scientist and the scholar of the humanities.

#### **8. Depth and Breadth of Understanding**

Breadth of understanding is an expression of the ability to operate across disciplinary boundaries in a coherent and productive way, with principles drawn from different disciplines. Depth of understanding depends upon mastery of a body of knowledge, but

it is not to be confused with knowledge, and is not necessarily commensurate with the number of courses taken in a subject.

Depth and breadth of understanding depend upon, and themselves contribute to, independence of thought; they contribute also to a love of learning. Possession of a historical perspective may be essential to a broad and deep understanding of a subject.

At the lowest level of experience, in courses introductory to a subject, students might be shown how sets of facts may be related to others both laterally and vertically (or hierarchically). The outcome of this might be simply consciousness, on the part of the student, of the possibilities of understanding, as distinct from simply knowing.

The next higher level moves from demonstration, to the student, of interrelationships to the development of the student's own ability to create interrelations. The experience provided will develop a creative imaginativeness skillfully exercised on a body of material mastered in some detail. But the experience, like that provided for independence of thought, goes beyond display of erudition, and requires alert curiosity and a refusal to be content with mere assemblage of data. At this level the student should be expected to integrate knowledge and modes of interpretation and comprehension from different disciplines, so as to generate a new understanding. The highest level takes the student to the ability to deal in abstractions, to generate abstractions.

In general, depth and breadth of understanding are characterized by the ability to recognize the implications of the information at hand and to put it into a broader context; and by the ability to draw upon different disciplines to provide a clearer and deeper understanding of the discipline with which the student is immediately concerned.

These outcomes might be assessed in a piece of written work such as an independent research paper, in the design of an experiment, in the identification and solution of a problem, or in a work of aesthetic creation.

#### **9. Independence of Thought**

At the lowest level students are shown the possibilities of independent thinking, by an instructor who, in the classroom and elsewhere, challenges orthodoxies and criticizes received opinions. The experience provided is that of imitation or emulation of a role model. At this level, the outcome might be no more than a receptivity, on the part of the student, to critical thinking and an openness to reasoned scepticism about the authority of the expert.

At a higher level students become actively engaged in learning and thinking. At this level, they should be given the opportunity, in seminars, tutorials, or structured small group discussions, to offer their own challenges. The bases for such challenges may be unformed, and so the challenges themselves will be open to challenge. As students become more independent in thought, they are better able to combine ideas and to generate new ideas.

At the highest level, independence of thought is a manifestation of love of learning, and it may contribute to a sense of self worth and of well being. At this level, opportunities are provided for self-directed learning. One accomplishment may be the ability to ask the right kinds of questions, rather than the ability always to have answers.

#### **10. Love of Learning**

Love of learning is perhaps the quality that activates all other qualities that are the focus of learning objectives. Its expression is not easily separable from demonstration of other virtues. Thus, the true lover of learning will demonstrate both independence of thought and depth of understanding. As a consequence, setting an objective for love of learning comports also setting an objective for other qualities as well. But love of learning is not exhausted by, for example, independence of thought.

Love of learning may be reflected in, or expressed in terms of, intellectual curiosity; the ability (as in independence of thought) to ask useful kinds of questions (rather than the ability always to have answers); the ability to see far reaching implications; the ability to make connections between disparate topics; energy and passion in the pursuit of knowledge and understanding; dissatisfaction with simply accumulating facts or data; critical ability.

Testing and instruction must minimize rote learning, and, so far as possible give scope for the exercise of individual patterns of learning and individual interests.

Love of learning may be impeded by the demands of frequent evaluation of students' performance. The time frames imposed at an institutional level to provide an organizational framework for the university experience, may also impair love of learning.

Love of learning may best be enhanced by the provision of opportunities for the student's personal involvement in learning. Such opportunities are perhaps best furnished in independent research projects initiated by the student. In such autonomous, but supervised, study the student can not only engage with the conflicting views of published authorities but also see in action, close at hand, the supervisor's own love of learning.

In courses of formal instruction, the use of team teaching might help to encourage a student's own love of learning, especially if members of the teaching team take an appropriate role as "students", and if true dialogue is developed between the teachers.

### **Mission Statement**

The University of Guelph is a research-intensive, learner-centred university. Its core value is the pursuit of truth. Its aim is to serve society and to enhance the quality of life through scholarship. Both in its research and in its teaching programs, the University is committed to a global perspective.

The University offers a wide range of excellent programs, both in theoretical and applied, disciplinary and interdisciplinary, undergraduate and graduate, in the arts, humanities, social sciences, natural sciences, as well as professional fields. Among these, it recognizes agriculture and veterinary medicine as areas of special responsibility.

The University attracts students, faculty, and staff of the highest quality. It is animated by a spirit of free and open enquiry, collaboration, and mutual respect. It asserts the fundamental equality of all human beings and is committed to creating for all members of its community, an environment that is hospitable, safe, supportive, equitable, pleasurable, and above all, intellectually challenging.

The University of Guelph is determined to put the learner at the centre of all it does, recognizing that research and teaching are intimately linked and that learning is a life-long commitment. The University eagerly promotes collaboration among undergraduates, graduate students, faculty, staff, and alumni, as well as with our local and international community, other educational institutions, government and business.

The University of Guelph is committed to the highest standards of pedagogy, to the education and well-being of the whole person, to meeting the needs of all learners in a purposefully diverse community, to the pursuit of its articulated learning objectives, to rigorous self-assessment, critical inquiry, and active learning. The University of Guelph educates students for life and work in a rapidly changing world.

The University of Guelph invites public scrutiny of the fulfillment of its mission, especially by the people of Ontario, to whom it is accountable.