

2007-2008 Graduate Calendar

The information published in this Graduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2007-2008 academic years, including the Summer Semester 2007, the Fall Semester 2007 and the Winter Semester 2008.

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

If you wish to link to the Graduate 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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Revision Information:	
May 25, 2007	Initial Publication
August 21, 2007	Revision I
October 23, 2007	Revision II
February 7, 2008	Revision III



Disclaimer

The Office of Graduate Program Services has attempted to ensure the accuracy of this on-line Graduate Calendar. However, the publication of information in this document does not bind the university to the provision of courses, programs, schedules of studies, fees, or facilities as listed herein.

Limitations

The University of Guelph 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 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 the 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.

The University of Guelph reaffirms section 1 of the Ontario Human Rights Code, 1981, which prohibits discrimination on the grounds of race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, handicap, age, marital status or family status.

The university encourages applications from women, aboriginal peoples, visible minorities, persons with disabilities, and members of other under-represented groups.

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/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

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.

Home Address

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

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Aquaculture

The university offers an interdepartmental program of study leading to the degree of master of science in aquaculture [MSc (Aquaculture)]. The participating units are the Departments of Food, Agricultural and Resource Economics, Animal and Poultry Science, Biomedical Sciences, Food Science, Human Health and Nutritional Sciences, Integrative Biology, Marketing and Consumer Studies, Molecular and Cellular Biology, Pathobiology, Philosophy, and Population Medicine.

Administrative Staff

Chair and Graduate Co-ordinator

Richard D. Moccia (135 Animal & Poultry Science, Ext. 56216)
rmoccia@uoguelph.ca

Graduate Faculty

James L. Atkinson

Professor, Animal and Poultry Science

James S. Ballantyne

Professor, Integrative Biology

Dominique Bureau

Associate Professor, Animal and Poultry Science

Roy Danzmann

Professor, Integrative Biology

Moiria M. Ferguson

Professor, Integrative Biology

Yukio Kakuda

Professor, Food Science

John F. Leatherland

Professor, Biomedical Sciences

John Lumsden

Associate Professor, Pathobiology

Ian McMillan

Professor, Animal and Poultry Science

Richard D. Moccia

Professor, Animal and Poultry Science

Wayne C. Pfeiffer

Associate Professor, Food, Agricultural and Resource Economics

Don Stevens

Professor Emeritus, Integrative Biology

Roselynn M.W. Stevenson

Associate Professor, Molecular and Cellular Biology

Margaret Thorburn

Associate Professor, Population Medicine

Patrick Woo

Professor Emeritus, Integrative Biology

William Woodward

Professor, Human Health and Nutritional Sciences

Patricia A. Wright

Professor, Integrative Biology

Rickey Y. Yada

Professor, Food Science

MSc Program

Aquaculture is the production of biomass of any aquatic plant or animal, including algae, molluscan, crustacean, and fish species, through artificial cultivation techniques. The MSc (Aquaculture) program is a non-thesis degree consisting of courses and a special project related primarily to the production of cool water and cold water fin-fish species. The objective of the degree is to provide an intensive, multidisciplinary program of study, without areas of sub-specialization. Graduates will obtain an integrated, technical knowledge of the concepts of animal production, agribusiness and state-of-the-art technology as they relate to aquaculture. The program includes a wide range of courses, a special project requirement and a practicum intended to provide essential experience in applied fish-production systems.

Admission Requirements

Students may be admitted to the MSc (Aquaculture) program from a variety of undergraduate backgrounds, including honours degree programs in animal or agricultural science, environmental biology, fisheries biology, marine biology, microbiology, nutritional sciences, wildlife biology, and zoology. The adequacy of a student's background and experience will be assessed by an admissions committee before a student is permitted to enter the program. All applicants must meet the university minimum criteria for admission to graduate studies. In addition, the admissions committee will look for relevant work experience or recognized educational training in agrifood systems and aquatic or fisheries science.

Applications must be accompanied by a letter of intent expressing the student's reasons for wanting to enter the program. Prior completion of introductory basic science courses will be expected. All applicants will require an academic program advisor prior to an offer of admission.

Degree Requirements

The program requires the completion of a minimum of 6.5 course credits. Students will be permitted to take additional, elective course credits if desired. At least 4.5 of the course credits will be at the graduate level and all undergraduate courses must be eligible for graduate credit. The selection of the courses will be dependent, in part, on the courses completed in the student's undergraduate program. The total duration of the program is expected to be 3-4 full-time semesters, or longer if part-time study is undertaken. Detailed schedules of studies are available from the program coordinator or from any member of the graduate faculty in the program. The student's advisor will provide leadership in making arrangements for, and providing advice on, the student's overall program, including the special project. Students in the program will be under the guidance of the Aquaculture Interdepartmental Group, and will register both in the interdepartmental program and in the department of their advisor. The Aquaculture Interdepartmental Group consists of members of the graduate faculty whose teaching or research interests are wholly or partly related to aquaculture.

Courses

AQUA*6000 Special Project in Aquaculture F,S,W [1.00]

An intensive learning opportunity focusing on an applied problem in the aquaculture industry. Completion of a literature review and project, in concert with hands-on experience with live animals, either in a research or commercial setting, form the basis of a final report and oral presentation to be made to a committee of the Aquaculture Interdepartmental Group. Practical experience is also gained through on-site training at the Alma Aquaculture Research Station.

AQUA*6100 Science and Technology in Aquaculture F [0.50]

A formal lecture, student seminar and essay course designed to examine the role of science and technology in the aquaculture industry. Latest advances in the scientific community are explored, with special attention to those developments having promise for commercialization and technology transfer to the private sector. The course will explore the relationships between basic and applied science, and the development of new technology for the industry.

AQUA*6200 Practicum in Aquaculture: Culture of Salmonids S [0.50]

Using a problem-solving approach, students will complete a series of modules at the Alma Aquaculture Research Station covering topics in water management, hatchery operations, propagation techniques, feeding and nutrition, health and disease, economics and regulatory issues. Students will solve practical problems from both a theoretical and applied perspective.

Graduate Courses Eligible for Credit in the MSc (Aquaculture) Program:

Animal Science

ANSC*3050	0.50	Aquaculture: Advanced Issues
ANSC*6450	[0.50]	Topics in Animal Biotechnology

Capacity Development and Extension

CDE*6190	[0.50]	Fundamentals of Interpersonal and Intercultural Communication
CDE*6311	[0.50]	Extension Theory and Methods

Economics

ECON*6750	[0.50]	Managerial Economics
ECON*6770	[0.50]	Financial Management

Food, Agricultural and Resource Economics

AGEC*6120	[0.50]	Marketing Management
AGEC*6130	[0.50]	Special Topics in Financial Management
AGEC*6430	[0.50]	Case Studies in Farm Management

Food Safety and Quality Assurance

FSQA*6600	[0.50]	Principles of Food Safety and Quality Assurance
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Geography

GEOG*6281	[0.50]	Environmental Resource Evaluation
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Hospitality and Tourism Management

HTM*6110	[0.50]	Foundations of Leadership
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Marketing and Consumer Studies

MCS*6010	0.5	Product Development and Management Systems
MCS*6150	[0.50]	Quality Assurance Management

Rural Planning and Development

RPD*6310	[0.50]	Environmental Impact Assessment
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Undergraduate Courses Eligible for Graduate Credit

(Students must not have received credit for these courses as part of their undergraduate programs):

Agricultural Economics

AGEC*4220	0.5	Advanced Farm Management
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Animal Science

ANSC*3120	0.5	Introduction to Animal Nutrition
ANSC*3170	0.5	Nutrition of Fish and Crustacea
ANSC*3210	0.5	Principles of Animal Care and Welfare
ANSC*4050	0.5	Biotechnology in Animal Science

Biology

BIOL*3450	0.5	Introduction to Aquatic Environments
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Environmental Biology

ENVB*4020	0.5	Water Quality and Environmental Management
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Food Science

FOOD*4700	0.5	Food Product Development
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Marketing and Consumer Studies

MCS*3010	0.5	Quality Management
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Pathology

PATH*3610	0.5	Principles of Disease
PATH*4100	0.5	Diseases of Aquatic Animals

Zoology

ZOO*4020	0.5	Ichthyology
ZOO*4110	0.5	Principles of Fish and Wildlife Management
ZOO*4330	0.5	Environmental Biology of Fishes
ZOO*4350	0.5	Biology of Polluted Waters

Note

Other relevant graduate and undergraduate courses may be taken for credit subject to the approval of the student's advisory committee.