

2019-2020 Graduate Calendar

The information published in this Graduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2019-2020 academic year, including the Summer Semester 2019, Fall Semester 2019 and the Winter Semester 2020.

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:

- Universities of Canada

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The logo of the University of Guelph, featuring the words "UNIVERSITY of GUELPH" in a stylized, serif font. The "of" is smaller and positioned between "UNIVERSITY" and "GUELPH".The tagline "CHANGING LIVES IMPROVING LIFE" in a bold, sans-serif font, with "CHANGING LIVES" on the top line and "IMPROVING LIFE" on the bottom line.

Disclaimer

The Office of Graduate and Postdoctoral Studies 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, Public Health Emergencies, 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 Advanced Education and Skills Development, 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 <https://www.uoguelph.ca/registrar/>

Statistics Canada - Notification of Disclosure

For further information, please see Statistics Canada's web site at <http://www.statcan.gc.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 Registrarial 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, their 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 their 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 <https://www.uoguelph.ca/secretariat/office-services/university-secretariat/university-policies>.

Learning Outcomes

Graduate Degree Learning Outcomes

On May 27, 2013, the University of Guelph Senate approved the following five University-wide Learning Outcomes as the basis from which to guide the development of graduate degree programs, specializations and courses:

1. Critical and Creative Thinking
2. Literacy
3. Global Understanding
4. Communication
5. Professional and Ethical Behaviour

These learning outcomes are also intended to serve as a framework through which our educational expectations are clear to students and the broader public; and to inform the process of outcomes assessment through the quality assurance process (regular reviews) of programs and departments.

An on-line guide to the learning outcomes, links to the associated skills, and detailed rubrics designed to support the development and assessment of additional program and discipline-specific outcomes, are available for reference on the [Learning Outcomes website](#)

Critical and Creative Thinking

Critical and creative thinking is a concept in which one applies logical principles, after much inquiry and analysis, to solve problems with a high degree of innovation, divergent thinking and risk taking. Those mastering this outcome show evidence of integrating knowledge and applying this knowledge across disciplinary boundaries. Depth and breadth of understanding of disciplines is essential to this outcome. At the graduate level, originality in the application of knowledge (master's) and undertaking of research (doctoral) is expected.

In addition, Critical and Creative Thinking includes, but is not limited to, the following outcomes: Independent Inquiry and Analysis; Problem Solving; Creativity; and Depth and Breadth of Understanding.

Literacy

Literacy is the ability to extract information from a variety of resources, assess the quality and validity of the material, and use it to discover new knowledge. The comfort in using quantitative literacy also exists in this definition, as does using technology effectively and developing visual literacy.

In addition, Literacy includes, but is not limited to, the following outcomes: Information Literacy, Quantitative Literacy, Technological Literacy, and Visual Literacy.

Global Understanding

Global understanding encompasses the knowledge of cultural similarities and differences, the context (historical, geographical, political and environmental) from which these arise, and how they are manifest in modern society. Global understanding is exercised as civic engagement, intercultural competence and the ability to understand an academic discipline outside of the domestic context.

In addition, Global Understanding includes, but is not limited to, the following outcomes: Global Understanding, Sense of Historical Development, Civic Knowledge and Engagement, and Intercultural Competence.

Communication

Communication is the ability to interact effectively with a variety of individuals and groups, and convey information successfully in a variety of formats including oral and written communication. Communication also comprises attentiveness and listening, as well as reading comprehension. It includes the ability to communicate and synthesize information, arguments, and analyses accurately and reliably.

In addition, Communication includes, but is not limited to, the following outcomes: Oral Communication, Written Communication, Reading Comprehension, and Integrative Communication.

Professional and Ethical Behaviour

Professional and ethical behaviour requires the ability to accomplish the tasks at hand with proficient skills in teamwork and leadership, while remembering ethical reasoning behind all decisions. The ability for organizational and time management skills is essential in bringing together all aspects of managing self and others. Academic integrity is central to mastery in this outcome. At the graduate level, intellectual independence is needed for professional and academic development and engagement.

In addition, Professional and Ethical Behaviour includes, but is not limited to, the following outcomes: Teamwork, Ethical Reasoning, Leadership, Personal Organization and Time Management, and Intellectual Independence.

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Food, Agricultural and Resource Economics

The graduate programs in Food, Agricultural and Resource Economics offers opportunities for master of science (MSc), master in food, agricultural and resource economics (MFARE) and doctor of philosophy (PhD). The thesis-based MSc and PhD are research-oriented degrees which require both course work and a thesis. The course-based MFARE degree requires either course work with a major research paper or course work alone.

The MSc, MFARE and PhD program in Food, Agricultural and Resource Economics focuses on two major fields of emphasis:

- Food and agricultural economics
- Natural resource and environmental economics

Administrative Staff

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MFARE Program

The Master of Food, Agricultural and Resource Economics focuses on two major fields of emphasis: 1) food and agricultural economics; and 2) natural resource and environmental economics.

The MFARE program provides an alternative pathway to graduate education related to the economics of food, agriculture, and natural resources, with an emphasis on skills acquisition and development of industry specific expertise. Through expanded course work requirements, students develop a breadth of exposure to empirical methods and analytical approaches to undertaking policy analysis and research, and enhanced communication skills.

Admission Requirements

All students entering the MFARE program must have achieved the University required minimum 70% (B-) average or equivalent. In addition, they are expected to have already taken, the following basic courses:

- Intermediate level micro- and macro-economic theory (ECON*2310 and ECON*2410 or equivalent)
- Calculus and matrix algebra with applications to economics (ECON*2770 or equivalent)
- Intermediate level statistics (ECON*3740 or equivalent).
- Advanced microeconomic theory at the undergraduate level is strongly recommended as preparation for the course work in the MFARE program.

The Graduate Program Committee examines each application before the student is proposed to the Office of Graduate & Postdoctoral Studies for admission into the program.

Program Requirements

All MFARE students in the Department are required to establish an Advisory Committee and submit the Advisory Committee Appointment form to the Office of Graduate Studies not later than the mid-point of the student's second registered semester. Until that time, they are advised by the Departmental Graduate Program Committee.

The advisory committee comprises of at least two graduate faculty members, the chair of which committee is normally the advisor of the student's program. The other member may be from the Department or another member of graduate faculty (who may be from another department when appropriate).

By the end of their first semester, students must choose one of the following two options.

Course Work and Major Research Paper

In order to satisfy the degree requirements of the course work and major research paper option, students will complete successfully five required courses, a seminar course (FARE*6800) and a research project course (FARE*6140) and two graduate courses approved by the student's advisory committee. The five required courses (assuming all undergraduate background requirements have been met) are:

FARE*6100	[0.50]	The Methodologies of Economics
FARE*6380	[0.50]	Applied Microeconomics for Agricultural Economists
FARE*6400	[0.50]	Advanced Topics in Agricultural Economics
FARE*6910	[0.50]	Applied Policy Analysis I
FARE*6970	[0.50]	Applied Quantitative Methods for Agricultural Economists
Two graduate courses as approved by the student's advisory committee		
FARE*6800	[0.00]	Seminar in Agricultural Economics
FARE*6140	[1.00]	Major Paper in Food, Agricultural and Resource Economics

Course Work

In order to satisfy the degree requirements of the course work option, students will complete successfully five required courses listed below plus four additional graduate courses approved by the student's advisory committee. Students in this option are restricted from taking FARE*6140.

FARE*6100	[0.50]	The Methodologies of Economics
FARE*6380	[0.50]	Applied Microeconomics for Agricultural Economists
FARE*6400	[0.50]	Advanced Topics in Agricultural Economics
FARE*6910	[0.50]	Applied Policy Analysis I
FARE*6970	[0.50]	Applied Quantitative Methods for Agricultural Economists
Four additional graduate courses approved by the student's advisory committee		

MSc Program

The MSc program in Food, Agricultural and Resource Economics focuses on two major fields of emphasis: 1) food and agricultural economics; and 2) natural resource and environmental economics.

The aim of the MSc program is to develop in students a fundamental understanding of economic principles and their application in identifying and solving relevant problems related to food, agriculture, and natural resources. The program also strives to develop appropriate analytical, methodological, and communication skills to enable students to analyze agriculture and resource problems effectively and explain their findings.

Admission Requirements

All students entering the Master of Science program must have achieved the University required minimum 70% (B-) average or equivalent. In addition, they are expected to have already taken, the following basic courses:

- Intermediate level micro- and macro-economic theory (ECON*2310 and ECON*2410 or equivalent)
- Calculus and matrix algebra with applications to economics (ECON*2770 or equivalent)
- Intermediate level statistics (ECON*3740 or equivalent).
- Advanced microeconomic theory at the undergraduate level is strongly recommended as preparation for the course work in the MSc program.

The Graduate Program Committee examines each application before the student is proposed to the Office of Graduate & Postdoctoral Studies for admission into the program.

Program Requirements

In order to satisfy the degree requirements of the MSc, students will complete successfully six courses, a seminar course, and write and defend an original MSc thesis. The minimum course work requirements (assuming all undergraduate background requirements have been met) are:

FARE*6100	[0.50]	The Methodologies of Economics
FARE*6380	[0.50]	Applied Microeconomics for Agricultural Economists
FARE*6910	[0.50]	Applied Policy Analysis I
FARE*6970	[0.50]	Applied Quantitative Methods for Agricultural Economists
Two graduate courses as approved by the student's advisory committee		
FARE*6800	[0.00]	Seminar in Agricultural Economics

PhD Program

The PhD program in Food, Agricultural and Resource Economics focuses on two major fields of emphasis: 1) food and agricultural economics; and 2) natural resource and environmental economics.

Across these areas there is a focus on both developed and developing countries. Students in the PhD program focus on an area of specialization relevant to their thesis research, plus complete courses in microeconomic theory and economic research methods. All students must complete and defend a thesis in their chosen area of specialization.

Admission Requirements

Minimum University of Guelph admission requirements for a Doctoral program include: 1) a satisfactory baccalaureate; and 2) at the very minimum a 'B' average in a recognized Master's degree. Students entering the PhD program are expected to have satisfied the requirements, or their equivalents, of the department's MSc degree in Food, Agricultural and Resource Economics. All applicants are required to upload valid GRE (General exam only) scores with their electronic application prior to the departmental application deadline.

In cases where a student's master's degree is not equivalent to that offered by the department, the student may initially be accepted into the MSc program and may then apply for transfer to the PhD program at some time during the first three semesters. Applications for transfer must be supported by the Graduate Program Committee and approved by the Board of Graduate Studies. The student does not have to complete all the requirements of the MSc before transferring to the PhD program, but must achieve high academic standing.

Program Requirements

Students enrolled in the PhD program must successfully complete a program of at least ten taught courses that prepare them for the various elements of the qualification examination and thesis research, as outlined below. However, students that are able to demonstrate a satisfactory level of competence in any of these requirements may have these course requirements adjusted accordingly, subsequent to evaluation and the decision of the Graduate Program Committee.

Microeconomic Theory:

ECON*6000	[0.50]	Microeconomic Theory I
ECON*6010	[0.50]	Microeconomic Theory II

Economic Research Methods:

ECON*6140	[0.50]	Econometrics I
ECON*6160	[0.50]	Econometrics II
FARE*6100	[0.50]	The Methodologies of Economics
FARE*6970	[0.50]	Applied Quantitative Methods for Agricultural Economists

Food, Agricultural and Resource Economics

FARE*6920	[0.50]	Applied Policy Analysis II
FARE*6400	[0.50]	Advanced Topics in Agricultural Economics

Plus ONE from the following:

FARE*6940	[0.50]	Food Firms, Consumers and Markets II
FARE*6960	[0.50]	Natural Resource Economics II

Plus ONE other graduate course approved by the student's advisory committee.

Students may also be permitted to take other courses as substitutes for the above, subject to approval by the Departmental Graduate Program Committee.

Qualifying Examination

It should be noted that successful completion of the above courses is not necessarily sufficient for qualification to PhD candidacy.

Students are expected to complete successfully the qualifying examination in microeconomic theory that aims to assess a student's understanding of key theoretical concepts. Students are allowed two attempts at this qualifying examination. Students are expected to write the first attempt at this exam in the Summer semester of their first year and (i.e. their third semester in the program), if necessary, the second attempt in the Fall semester of their second year (i.e. their fourth semester in the program). Students that fail the examination at the second attempt will not be permitted to continue.

Collaborative Specializations

International Development Studies

The Department of Food, Agricultural and Resource Economics participates in the International Development Studies (IDS) collaborative specialization. Please consult the International Development Studies listing for a detailed description of the MFARE/MSc/PhD collaborative specialization including the special additional requirements for each of the participating departments.

Courses

Production Economics

FARE*6380 Applied Microeconomics for Agricultural Economists F [0.50]
The objective of this course is to foster a deeper understanding of standard microeconomic concepts and their application to a wide variety of topics in food, agricultural, and resource economics. Emphasis is placed on what tool(s) to use in a wide variety of circumstances to address real life problems. Topics will include decisions by firms and consumers, market equilibrium, and production decisions.
<i>Prerequisite(s):</i> ECON*2770 or equivalent, ECON*3710 or equivalent, ECON*3740 or equivalent
<i>Department(s):</i> Department of Food, Agricultural and Resource Economics

FARE*6970 Applied Quantitative Methods for Agricultural Economists F [0.50]
This course exposes students to the empirical tools agricultural economists use when conducting research. Emphasis is placed on what tool(s) to use in a variety of circumstances. Topics covered will include advanced econometric techniques, optimization and simulation modelling. Students will also be exposed to the different quantitative software packages used in empirical research.
<i>Prerequisite(s):</i> ECON*3740 or equivalent and ECON*2770 or equivalent
<i>Department(s):</i> Department of Food, Agricultural and Resource Economics

FARE*6990 Applied Quantitative Methods for Agricultural Economists II W [0.50]
Students will develop econometric methods and models that will provide solutions to a "real world" economic problem posed by an economic firm. Along a second vein, students will replicate the empirical findings of a published paper central to their thesis. Advanced quantitative methods will be introduced.
<i>Prerequisite(s):</i> FARE*6970
<i>Department(s):</i> Department of Food, Agricultural and Resource Economics

Agricultural Policy and Trade

FARE*6600 Food Security and the Economics of Agri-Food Systems in Developing Countries F [0.50]
The aim of this course is to understand the nature of food security in developing countries and relations with the economic performance of the agri-food system. Towards this aim, the course focuses on both the agri-food system's role in the supply of nutritious food and its importance as a source of livelihood and as a driver of overall processes of economic development.
<i>Prerequisite(s):</i> ECON*1050 or equivalent, ECON*1100 or equivalent
<i>Department(s):</i> Department of Food, Agricultural and Resource Economics

FARE*6910 Applied Policy Analysis I W [0.50]
An overview of domestic and international agri-food policies and an introduction to the concepts and methods used to evaluate domestic trade policies.
<i>Prerequisite(s):</i> FARE*6380
<i>Department(s):</i> Department of Food, Agricultural and Resource Economics

FARE*6920 Applied Policy Analysis II U [0.50]
A presentation and evaluation of advanced quantitative agri-food policy models and selected special topics related to domestic and trade policy evaluation.
<i>Prerequisite(s):</i> AGE*6910 or FARE*6910 or equivalent
<i>Co-requisite(s):</i> ECON*3710
<i>Department(s):</i> Department of Food, Agricultural and Resource Economics

FARE*6980 Agricultural Trade Relations W [0.50]

An examination of the institutional, theoretical and empirical aspects of international agri-food trade.

Prerequisite(s): FARE*6380

Department(s): Department of Food, Agricultural and Resource Economics

Economics of Food Markets**FARE*6930 Food Firms, Consumers and Market I F [0.50]**

This course examines the application of microeconomic theory to food markets. Topics covered include: optimizing behaviour by economic agents, the certainty equivalent profit model and decision making under risk, optimal capital replacement models and their application to food system economics, consumer behaviour with respect to food products and behaviour with respect to food products and behaviour of marketing intermediaries and food processors. New developments in the economic theory of the form are surveyed.

Prerequisite(s): ECON*2310 or equivalent, ECON*3740 or equivalent

Department(s): Department of Food, Agricultural and Resource Economics

FARE*6940 Food Firms, Consumers and Markets II U [0.50]

This course builds on Food Firms, Consumers and Markets I by extending the breadth and depth of student's understanding and scope of economic analysis. Advanced techniques in producer and consumer theory, as well as advance market analysis techniques are presented and utilized. Understanding of the research process and advanced methods is emphasized throughout.

Prerequisite(s): AGE*6930 or FARE*6930

Department(s): Department of Food, Agricultural and Resource Economics

Natural Resource Economics**FARE*6950 Natural Resource Economics I W [0.50]**

Natural Resources I introduces conventional theoretical modeling approaches to renewable resources, e.g. fisheries & forestry. Seminal theoretical literature is discussed. Emphasis is placed on setting up economic models, deriving and interpreting general results. Applied methods include dynamic optimization and regression analysis. Additional topics include Land Economics and the property rights approach.

Prerequisite(s): FARE*6380

Department(s): Department of Food, Agricultural and Resource Economics

FARE*6960 Natural Resource Economics II U [0.50]

Natural Resources II reviews & extends conventional theoretical modeling approaches to renewable resources, e.g. fisheries & forestry. Seminal literature is reviewed and contemp. theoretical work and empirical papers discussed. Emphasis on extending economic models addressing natural resource issues - uncertainty, externalities & policy instruments, and derive reduced-form versions of forestry & fishery for empirical estim. & analysis. Primary method of math analysis involves dyn. opt. techniques. Detailed math derivations & proofs expected. Also- extinction, climate change, carb sequest.

Prerequisite(s): AGE*6950 or FARE*6950

Department(s): Department of Food, Agricultural and Resource Economics

Other Courses**FARE*6100 The Methodologies of Economics W [0.50]**

Alternative views on the methodology of economics are reviewed and assessed. The process of problem identification in the development of a research project proposal is investigated.

Department(s): Department of Food, Agricultural and Resource Economics

FARE*6140 Major Paper in Food, Agricultural and Resource Economics U [1.00]

The major paper is an option only available to MFARE students registered in the course work master program. An original research project related to the specialization of choice in food, agricultural and resource economics will be undertaken. The project will include preparation of a written paper and an oral presentation of the findings to the faculty.

Restriction(s): Restricted to students in the course-based MFARE program in FARE

Department(s): Department of Food, Agricultural and Resource Economics

FARE*6400 Advanced Topics in Agricultural Economics U [0.50]

The application of economic theory and various contemporary tools of economic analysis in solving production problems in the agricultural sector of the economy.

Department(s): Department of Food, Agricultural and Resource Economics

FARE*6720 Readings in Agricultural Economics F,S,W [0.50]

A reading course on selected topics of special interest. May be offered to individual students or to groups of students in any semester.

Department(s): Department of Food, Agricultural and Resource Economics

FARE*6800 Seminar in Agricultural Economics U [0.00]

Students in the MSc and MFARE major research paper option program must give two presentations at the annual research symposium; one in their first year outlining their research plan, and one in their second year on their thesis research results or major research paper.

Department(s): Department of Food, Agricultural and Resource Economics