2016-2017 Graduate Calendar

The information published in this Graduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2016-2017 academic years, including the Summer Semester 2016, Fall Semester 2016 and the Winter Semester 2017.

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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Disclaimer

The Office of Graduate 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 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 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 the Office of Graduate Studies.

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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X. Collaborative Specializations

X. Collaborative Specializations

Collaborative specializations are intended to provide an additional multidisciplinary experience for students. Students complete the requirements of their home program plus those of the collaborative specialization.

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International Development Studies

The International Development Studies (IDS) collaborative specialization provides a focal point for graduate teaching and research in the area of international development. The collaborative specialization combines training in a particular discipline with exposure to a broad range of social science perspectives. Faculty expertise encompasses various aspects of development in Asia, Africa, Eastern and Western Europe and the Americas.

Administrative Staff

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From Capacity Development and Extension

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From Food, Agricultural and Resource Economics

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From History

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From Latin American and Caribbean Studies

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Graduate Program Assistant

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From Philosophy

Graduate Program Coordinator

Don Dedrick (329 MacKinnon Ext., Ext. 53203)

Graduate Program Assistant

Janet Thackray (348 MacKinnon, Ext. 56265)

From Political Science

Graduate Program Coordinator

Tamara Small (533 MacKinnon, Ext. 53469)

Graduate Program Assistant

Renee Tavascia (533 MacKinnon, Ext. 53469)

From Population Medicine

Graduate Program Coordinator

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Graduate Program Assistant

Ariah Easley (102 CLRE, Ext. 54005)

From Public Health

Graduate Program Coordinator

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Graduate Program Assistant

Ariah Easley (102 CLRE, Ext. 54005)

From Rural Planning and Development

Graduate Program Coordinator

John FitzGibbon (119 Johnston Hall, Ext. 56784)

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Bill O'Grady (639 MacKinnon, Ext. 58943)

Public Issues in Anthropology Graduate Program Coordinator

Renee Sylvain (601 MacKinnon, Ext. 52721)

Graduate Program Assistant

Shelagh Daly (624 MacKinnon, Ext. 53895)

Master's Collaborative Specialization

Students wishing to pursue a Master's degree with the designation "International Development Studies" must enter the IDS collaborative specialization through a participating department.

Admission Requirements

Students must meet both departmental and collaborative specialization IDS requirements. They must demonstrate familiarity with conceptual frameworks employed in the social sciences. More detailed information is available on the <u>IDS Graduate website</u>.

Degree Requirements

Students complete IDS core requirements and requirements designated for IDS students by the relevant department. Following are requirements for select departments; consult the IDS Graduate website for other departments. One IDS core course may be waived if a student has taken a comparable course at the senior undergraduate level.

IDS Master's Core Courses*

IDEV*6100	[0.50]	International Development Studies Seminar
One of:		•
SOC*6460	[0.50]	Gender and Development
ANTH*6460	[0.50]	Gender and Development
CDE*6420	[0.50]	Communication for Social and Environmental Change
SOC*6420	[0.50]	Global Agro-Food Systems, Communities and Rural Change
ANTH*6420	[0.50]	Global Agro-Food Systems, Communities and Rural Change
SOC*6480	[0.50]	Work, Gender and Change in a Global Context
ANTH*6480	[0.50]	Work, Gender and Change in a Global Context
SOC*6270	[0.50]	Diversity and Social Equality
ANTH*6270	[0.50]	Diversity and Social Equality
SOC*6520	[0.50]	Social Movements and Collective Action
One of:		
GEOG*6340	[0.50]	Human-Environment Relations
GEOG*6400	[0.50]	Urbanization and Development
GEOG*6450	[0.50]	Development Geography
EDRD*6050	[0.50]	Farming Systems Analysis and Development
RPD*6291	[0.50]	Rural Development Administration
One of:		
ECON*6370	[0.50]	Economic Development in Historical Perspective
FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems
		in Developing Countries
ECON*6350	[0.50]	Economic Development
One of:		
POLS*6750	[0.50]	Development in Practice
POLS*6730	[0.50]	The Politics of Development and Underdevelopment

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Note

*This does not apply to students in Anthropology, Engineering, Food, Agricultural and Resource Economics, Latin American and Caribbean Studies, Political Science and Rural Planning and Development. Please see specific departmental requirements sections below for required courses (both IDS and departmental or program).

Optional IDS Courses

Students in the collaborative specialization may undertake any course offered by a participating department with the permission of the instructor. There are also two optional interdisciplinary courses available:

IDEV*6000 [0.50] Regional Context

IDEV*6500 Fieldwork in International Development Studies [0.50]

Departmental or Program Requirements

Programs not listed below are designed by special arrangements. All departmental requirements are subject to change. Students should confirm the departmental course requirements with the respective Graduate Program Coordinator.

Foundations of Capacity Building and Extension

Capacity Development and Extension (MSc)

	[]	
CDE*6260	[0.50]	Research Design
One of:		
RPD*6380	[0.50]	Application of Quantitative Techniques in Rural Planning
		and Development
EDRD*6000	[0.50]	Qualitative Analysis in Rural Development
Two additional cou	irses from t	he following CDE restricted electives group:
CDE*6290	[0.50]	Special Topics in Capacity Building and Extension
CDE*6311	[0.50]	Community Engagement and Public Participation
CDE*6320	[0.50]	Capacity Building for Sustainable Development
CDE*6330	[0.50]	Facilitation and Conflict Management
CDE*6410	[0.50]	Readings in Capacity Building and Extension
CDE*6420	[0.50]	Communication for Social and Environmental Change
CDE*6690	[0.50]	Community Environmental Leadership
One open elective	[0.50] (one	IDS Master's Core Course will fulfill this requirement)

A thesis OR

CDE*6070

CDE*6900 Major Research Paper [1.00]

plus two more courses from the restricted electives group (see course list above)

Economics (MA)

ECON*6000	[0.50]	Microeconomic Theory I
ECON*6020	[0.50]	Macroeconomic Theory I
ECON*6940	[1.00]	Research Project
One of:		
ECON*6050	[0.50]	Introduction to Econometric Methods
AND		
ECON*6180	[0.50]	Econometric Methods
OR		
ECON*6140	[0.50]	Econometrics I

Engineering (MEng in Environmental Engineering or Water Resources Engineering)

IDS Core Courses Required:

IDEV*6100	[0.50]	International Development Studies Seminar
One of:		
SOC*6460	[0.50]	Gender and Development
ANTH*6460	[0.50]	Gender and Development
CDE*6420	[0.50]	Communication for Social and Environmental Change
SOC*6420	[0.50]	Global Agro-Food Systems, Communities and Rural
ANTH*6420	[0.50]	Clabel Agra Food Systems Communities and Burel
ANTH*0420	[0.50]	Global Agro-Food Systems, Communities and Rural Change
SOC*6480	[0.50]	Work, Gender and Change in a Global Context
ANTH*6480	[0.50]	Work, Gender and Change in a Global Context
SOC*6270	[0.50]	Diversity and Social Equality
ANTH*6270	[0.50]	Diversity and Social Equality
SOC*6520	[0.50]	Social Movements and Collective Action
One of:		
ECON*6370	[0.50]	Economic Development in Historical Perspective
FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems
		in Developing Countries
ECON*6350	[0.50]	Economic Development
One of:		
POLS*6750	[0.50]	Development in Practice
POLS*6730	[0.50]	The Politics of Development and Underdevelopment

Departmental Requirements:

Six courses from the list of required graduate courses in Engineering (to be selected in consultation with advisor)

Plus one of:		
ENGG*6950	[1.00]	Final Project in Environmental Engineering
ENGG*6900	[1.00]	Final Project in Water Resources Engineering

Engineering (MASc in Environmental Engineering or Water Resources Engineering)

IDS Core Cour	ses Require	ed:
IDEV*6100	[0.50]	International Development Studies Seminar
One of:		-
SOC*6460	[0.50]	Gender and Development
ANTH*6460	[0.50]	Gender and Development
CDE*6420	[0.50]	Communication for Social and Environmental Change
SOC*6420	[0.50]	Global Agro-Food Systems, Communities and Rural
		Change
ANTH*6420	[0.50]	Global Agro-Food Systems, Communities and Rural
		Change
SOC*6480	[0.50]	Work, Gender and Change in a Global Context
ANTH*6480	[0.50]	Work, Gender and Change in a Global Context
SOC*6270	[0.50]	Diversity and Social Equality
ANTH*6270	[0.50]	Diversity and Social Equality
SOC*6520	[0.50]	Social Movements and Collective Action
One of:		
ECON*6350	[0.50]	Economic Development
FARE*6600	[0.50]	Food Security and the Economics of Agri Food System
		in Developing Countries
ECON*6370	[0.50]	Economic Development in Historical Perspective
One of:		
POLS*6750	[0.50]	Development in Practice
POLS*6730	[0.50]	The Politics of Development and Underdevelopment
Departmental I	Requiremen	its:

Three courses from the list of required graduate courses in Engineering (to be selected in consultation with advisor)

Thesis

English (MA)

Four English courses and a thesis

Six English courses and

ENGL*6803 [1.00] Research Project

Environmental Sciences (MSc)

ENVS*6900 [0.50]Research Seminar in Environmental Sciences

Two other courses in consultation with the department (which may include courses from the IDS core)

Thesis

Food, Agricultural and Resource Economics (MSc or MFARE)

IDS Requirements

FARE*6970

FARE*6910

FARE*6100

[0.50]

[0.50]

[0.50]

IDEV*6100	[0.50]	International Development Studies Seminar
One of:		•
SOC*6460	[0.50]	Gender and Development
ANTH*6460	[0.50]	Gender and Development
CDE*6420	[0.50]	Communication for Social and Environmental Change
SOC*6420	[0.50]	Global Agro-Food Systems, Communities and Rural
		Change
ANTH*6420	[0.50]	Global Agro-Food Systems, Communities and Rural
		Change
SOC*6480	[0.50]	Work, Gender and Change in a Global Context
ANTH*6480	[0.50]	Work, Gender and Change in a Global Context
SOC*6270	[0.50]	Diversity and Social Equality
ANTH*6270	[0.50]	Diversity and Social Equality
SOC*6520	[0.50]	Social Movements and Collective Action
One of:		
GEOG*6340	[0.50]	Human-Environment Relations
GEOG*6400	[0.50]	Urbanization and Development
GEOG*6450	[0.50]	Development Geography
EDRD*6050	[0.50]	Farming Systems Analysis and Development
RPD*6291	[0.50]	Rural Development Administration
One of:		
POLS*6750	[0.50]	Development in Practice
POLS*6730	[0.50]	The Politics of Development and Underdevelopment
Departmental Re	quirement	s
MSc:		
FARE*6380	[0.50]	Applied Microeconomics for Agricultural Economists

Applied Policy Analysis I

The Methodologies of Economics

Applied Quantitative Methods for Agricultural Economists

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FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems in Developing Countries
FARE*6800 One additional c	[0.00]	Seminar in Agricultural Economics
A thesis	ourse	
•		

Note

* NB: a departmental course from the policy area may substitute for the Politics course in the IDS core.

MFARE:

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
FARE*6100	[0.50]	The Methodologies of Economics
FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems
		in Developing Countries
FARE*6400	[0.50]	Advanced Topics in Agricultural Economics
FARE*6800	[0.00]	Seminar in Agricultural Economics
FARE*6140	[1.00]	Major Paper in Food, Agricultural and Resource
		Economics

One additional course

Note

*NB: a departmental course from the policy area may substitute for the Politics course in the IDS core

Geography (MA or MSc)

GEOG*6090	[0.50]	Geographical Research Methods I
GEOG*6091	[0.50]	Geographical Research Methods II
One other Geogra	phy cours	e (which can be taken from the IDS core)
Either a thesis OR		

GEOG*6180 [1.00] Research Project in Geography plus one other Geography course not taken as part of the IDS core

History (MA)

Three History courses

OR (only two if the IDS core includes):

ECON*6370 [0.50] Economic Development in Historical Perspective One of:

Thesis

HIST*6400 [1.00] Major Paper

Note

*NB: a suitably themed departmental course from History may be substituted for a course in the IDS core

Latin American and Caribbean Studies (MA)

Eutin / Imericar	i unu cui	ibbean States (IIII)		
LACS*6010	[0.50]	Latin American Identity & Culture I		
LACS*6020	[0.50]	Latin American Identity & Culture II		
LACS*6030	[0.50]	Globalization & Insecurity in the Americas		
One of:				
LACS*6000	[0.50]	Research Methods Seminar		
POLS*6940	[0.50]	Qualitative Research Design and Methods		
SOC*6130	[0.50]	Quantitative Research Methods		
Plus:				
IDEV*6100	[0.50]	International Development Studies Seminar		
ECON*6370	[0.50]	Economic Development in Historical Perspective		
(or its equivalent)				
SOC*6520	[0.50]	Social Movements and Collective Action		
(or its equivalent)				
Plus:				
LACS*6100	[1.00]	Research Project		
Philosophy (MA	A)			
PHIL*6950	[0.50]	MA Seminar		
Additional philosophy courses in consultation with the department				
Either a thesis or research paper (in conjunction with)				
PHIL*6990	[1.00]	Major Research Project in Philosophy		
Political Science	e (MA)			
IDS Requirement	ts:			
IDEV*6100	[0.50]	International Development Studies Seminar		
One of				
SOC*6460	[0.50]	Gender and Development		
ANTH*6460	[0.50]	Gender and Development		
CDE*6420	[0.50]	Communication for Social and Environmental Change		

SOC*6420	[0.50]	Global Agro-Food Systems, Communities and Rural		
		Change		
ANTH*6420	[0.50]	Global Agro-Food Systems, Communities and Rural		
		Change		
SOC*6480	[0.50]	Work, Gender and Change in a Global Context		
ANTH*6480	[0.50]	Work, Gender and Change in a Global Context		
SOC*6270	[0.50]	Diversity and Social Equality		
ANTH*6270	[0.50]	Diversity and Social Equality		
SOC*6520	[0.50]	Social Movements and Collective Action		
One of:				
GEOG*6340	[0.50]	Human-Environment Relations		
GEOG*6400	[0.50]	Urbanization and Development		
GEOG*6450	[0.50]	Development Geography		
EDRD*6050	[0.50]	Farming Systems Analysis and Development		
RPD*6291	[0.50]	Rural Development Administration		
One of:		•		
ECON*6370	[0.50]	Economic Development in Historical Perspective		
FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems		
	. ,	in Developing Countries		
ECON*6350	[0.50]	Economic Development		
Departmental Requirements				
POLS*6900	[0.25]	Pro-Seminar		
POLS*6940	[0.50]	Qualitative Research Design and Methods		
POLS*6730	[0.50]	The Politics of Development and Underdevelopment		
One of:		<u>r</u>		
Thesis				
OR				
POLS*6970	[1.00]	Major Paper		
		om the Political Science Department (elective)		
		Sc course work)		
-				
POPM*6200	[0.50]	Epidemiology I		
POPM*6210	[0.50]	Epidemiology II		

POPM*6250 Note

*NB: A student's Population Medicine advisor may require a student to take POPM*6100 Seminar. POPM*6950, may be substituted for a Geography course in the IDS core if it is offered as the Global Health or Geographical Epidemiology course.

Project in Epidemiology

Public Health (MPH)

[1.00]

PABI*6500	[0.50]	Infectious Diseases and Public Health
POPM*6200	[0.50]	Epidemiology I
POPM*6510	[0.50]	Community Health Promotion
POPM*6520	[0.50]	Introduction to Epidemiological and Statistical Methods
POPM*6530	[0.50]	Health Communication
POPM*6540	[0.50]	Concepts in Environmental Public Health
POPM*6550	[0.50]	Public Health Policy and Systems
POPM*6560	[1.00]	Public Health Practicum
POPM*6580	[0.50]	Public Health Leadership & Administration

Note

*NB: POPM*6950, may be substituted for a Geography course in the IDS core if it is offered as the Global Health or Geographical Epidemiology course.

Public Issues in Anthropology (MA)

[0.50]

IDS Requirements:

	-		
	IDEV*6100	[0.50]	International Development Studies Seminar
	One of:		
	GEOG*6340	[0.50]	Human-Environment Relations
	GEOG*6400	[0.50]	Urbanization and Development
	GEOG*6450	[0.50]	Development Geography
	EDRD*6050	[0.50]	Farming Systems Analysis and Development
	RPD*6291	[0.50]	Rural Development Administration
	One of:		
	ECON*6370	[0.50]	Economic Development in Historical Perspective
	FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems
			in Developing Countries
	ECON*6350	[0.50]	Economic Development
	One of:		
	POLS*6750	[0.50]	Development in Practice
	POLS*6730	[0.50]	The Politics of Development and Underdevelopment
Departmental Requirements:			S:
	ANTH*6080	[0.50]	Anthropological Theory
	ANTH*6140	[0.50]	Qualitative Research Methods

Public Issues Anthropology

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ANTH*6000

Either a Thesis and one additional course or ANTH*6660 [1.00] Major Paper and three additional courses

Rural Planning and Development (MSc Planning)

TDO	-		
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100	1104	un cm	iciiw.

ino Kequitements.			
	IDEV*6100	[0.50]	International Development Studies Seminar
	One of		
	SOC*6460	[0.50]	Gender and Development
	ANTH*6460	[0.50]	Gender and Development
	CDE*6420	[0.50]	Communication for Social and Environmental Change
	SOC*6420	[0.50]	Global Agro-Food Systems, Communities and Rural
	ANTH*6420	[0.50]	Change Global Agro-Food Systems, Communities and Rural Change
	SOC*6480	[0.50]	Work, Gender and Change in a Global Context
	ANTH*6480	[0.50]	Work, Gender and Change in a Global Context
	SOC*6270	[0.50]	Diversity and Social Equality
	ANTH*6270	[0.50]	Diversity and Social Equality
	SOC*6520	[0.50]	Social Movements and Collective Action
	One of:	. ,	
	ECON*6350	[0.50]	Economic Development
	ECON*6370	[0.50]	Economic Development in Historical Perspective
	FARE*6600	[0.50]	Food Security and the Economics of Agri Food Systems
			in Developing Countries
	One of:		
	POLS*6730	[0.50]	The Politics of Development and Underdevelopment
	POLS*6750	[0.50]	Development in Practice
Departmental Requirements		quirements	s
	RPD*6030	[0.50]	International Rural Development Planning: Principles an
			Practices
	RPD*6170	[0.50]	Rural Research Methods
	RPD*6240	[0.50]	Planning and Development Theory

[0.50]and Development Plus a thesis and one additional RPD course

[0.50]

OR

RPD*6291

RPD*6380

RPD*6360 [1.00] Major Research Paper

plus three additional RPD courses

*NB: RPD*6291, Rural Development Administration counts as an IDS core course for Geography.

Rural Development Administration

Application of Quantitative Techniques in Rural Planning

Sociology (MA)

SOC*6070	[0.50]	Sociological Theory		
SOC*6700	[0.00]	Pro-seminar		
One of:				
SOC*6130	[0.50]	Quantitative Research Methods		
SOC*6140	[0.50]	Qualitative Research Methods		
Plus a thesis and	one additio	nal Sociology course OR		
SOC*6660	[1.00]	Major Paper		
Plus three additional Sociology courses				

PhD Collaborative Specialization

The collaborative specialization in International Development Studies (IDS) in a PhD program provides an opportunity for advanced students to engage with interdisciplinary development theories and to conduct research on international development issues based on approaches of selected academic disciplines. The collaborative specialization in IDS is undertaken jointly with a discipline-based degree. Students enter IDS through a participating department with a PhD program. At present these include Sociology; Plant Agriculture, Philosophy, Political Science; Population Medicine, Geography; Food, Agricultural and Resource Economics; Economics; History; Engineering; Environmental

Based on the experience of faculty advisors in key participating departments, the program focuses on issues such as international political economy, food security, environmental dynamics and governance, gender inequality, rural development, long-term economic change, and other interdisciplinary cutting-edge topics in international development.

Admission Requirements

To be considered for admission, an applicant must have a recognized Bachelor's degree and a Master's degree in a relevant discipline or related interdisciplinary field. Applicants to the IDS collaborative specialization must meet the specific departmental admission requirements, which vary from one department to another. For information on the admission requirements and application deadlines of your selected department, please contact the relevant department directly.

In addition to the specific departmental admission requirements, applicants are expected to have a strong background in the social sciences a demonstrable track record of experience in the course-based study of development issues, development research and/or development practice and a stated research interest relating to international development.

Degree Requirements

Students complete requirements for the departmental degree as well as the IDS components which consist of two core courses, including an interdisciplinary course on theories and debates in development and a course on development research and practice. Students must obtain a minimum final grade of 75% in each of the two IDS PhD core courses to remain in the IDS collaborative specialization. While the students have to successfully complete these courses to remain in the IDS collaborative specialization, they do not have to pass a separate qualifying examination in addition to the departmental qualifying exam. Furthermore, the expectation is that the IDS students' PhD research will bridge two or more disciplines in a way that relates to the field of IDS. The departmental supervisor must have knowledge and understanding of International Development Studies as it relates to the requirements of the IDS collaborative specialization. One of the members on the student's advisory committee needs to be an appointed IDS affiliated faculty member approved by the IDS Admissions Committee.

For further information regarding course offering, please contact the IDS Graduate Program Assistant.

IDS PhD Core Courses

IDEV*6800 [0.501]Theories and Debates in Development IDEV*6850 [0.50]Development Research and Practice

Departmental PhD Requirements

Departmental requirements are assigned in collaboration with the student's home department. See respective departmental web pages.

Courses

IDEV*6000 Regional Context U [0.50]

This reading course provides an opportunity for in-depth investigation about a particular region in preparation for a thesis, major paper or research project. The course normally is directed by the student's advisor.

Department(s): Dean's Office, College of Social and Applied Human Sciences

IDEV*6100 International Development Studies Seminar U [0.50]

A bi-weekly seminar discussion of issues which arise in the study of international development. Led by faculty and visitors from a variety of disciplines.

Department(s): Dean's Office, College of Social and Applied Human Sciences

IDEV*6500 Fieldwork in International Development Studies U [0.50]

This course recognizes an intensive commitment to research in an archival repository 'in the field' or at an appropriate development institution in Canada or abroad. The course normally is directed by the student's advisor in consultation with the advisory committee Department(s): Dean's Office, College of Social and Applied Human Sciences

IDEV*6800 Theories and Debates in Development F [0.50]

This course examines recent approaches in development theory explaining international inequality, poverty and long-term change. It also investigates selected current debates in international development - such as food security, trade, good governance, sustainability or gender - from various discipline-based and interdisciplinary perspectives, and analyzes selected regional experiences of development.

Restriction(s): Restricted to students in doctoral IDEV collaborative specializations.

A minimum final grade of 75% is required to remain in the IDEV

collaborative specialization.

Department(s): Dean's Office, College of Social and Applied Human Sciences

IDEV*6850 Development Research and Practice W [0.50]

In this course students establish the linkages between their doctoral research topic and the wider field of development studies and practice. The course will examine development policies and projects, ethical issues related to (cross-cultural) development research, and relationships between research and development practice.

Restricted to students in doctoral IDEV collaborative specializations. Restriction(s): A minimum final grade of 75% is required to remain in the IDEV

collaborative specialization.

Dean's Office, College of Social and Applied Human Sciences Department(s):

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Neuroscience

The Neuroscience collaborative specialization provides an opportunity for MSc/MBS/PhD students engaged in research in the rapidly expanding field of neuroscience, to combine their departmental degree program with multidisciplinary exposure to the field of neuroscience. This unique combination of multidisciplinary studies provides students with the best possible foundation for academic careers in neuroscience and related areas. The collaborative specialization includes participation from core faculty in the following departments: Animal Biosciences, Biomedical Sciences, Human Health and Nutritional Sciences, Integrative Biology, Molecular and Cellular Biology, Pathobiology, Population Medicine and Psychology.

Administrative Staff

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Assistant Professor, Psychology

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Professor and Canada Research Chair, Molecular and Cellular Biology

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Assistant Professor, Integrative Biology

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Assistant Professor, Clinical Studies

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Ray Lu

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Professor, Biomedical Sciences

Georgia Mason

Professor and Canada Research Chair, Animal Biosciences

Robert L. McLaughlin

Associate Professor, Integrative Biology

Daniel V. Meegan

Associate Professor, Psychology

Amy Newman Assistant Professor, Integrative Biology

I ao Niol

Assistant Professor, Population Medicine

Linda A. Parker

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Terry Van Raay

Assistant Professor, Molecular and Cellular Biology

Tina Widowski

Professor, Animal Biosciences

Boyer D. Winters

Associate Professor, Psychology

John L. Zettel

Assistant Professor, Human Health and Nutritional Sciences

As a practical matter, any faculty member who is approved by the Board of Graduate Studies for graduate faculty status and is a member of a participating unit within the collaborative specialization will be able to advise a master's or doctoral student.

Associated Graduate Faculty

Geoffrey Power

Contractually Limited Faculty, Human Health and Nutritional Sciences

MSc/MBS Collaborative Specialization

The MSc/MBS collaborative specialization in Neuroscience enables students engaged in neuroscience research to combine their departmental degree program with a multidisciplinary specialization in the field of neuroscience.

Admission Requirements

MSc/MBS students in the collaborative specialization in Neuroscience must meet the admission requirements of the participating department in which they are enrolled. The application process has two stages: first, application to the primary program of interest, identifying interest in the collaborative specialization as a secondary focus. If the student is admitted to the primary program, the second stage is then admission to the collaborative specialization.

Degree Requirements

In addition to coursework in their respective departments, students in the MSc/MBS collaborative specialization must complete NEUR*6000 as well as registering for NEUR*6100 each term that they are in the collaborative specialization. In NEUR*6100, students and faculty will meet once a month to discuss issues/ hear talks/ present research in neuroscience. Note that students registered in the Collaborative Neuroscience Specialization cannot use NEUR*6000 as an elective to satisfy the requirements of their home department program.

PhD Collaborative Specialization

The PhD collaborative specialization in Neuroscience enables students engaged in neuroscience dissertation research to combine their departmental degree program with a multidisciplinary specialization in the field of neuroscience.

Admission Requirements

PhD students in the collaborative specialization in Neuroscience must meet the PhD admission requirements for the participating department in which they are enrolled.

Degree Requirements

If a student enters the PhD collaborative specialization in Neuroscience at the doctoral level, in addition, to coursework in their respective departments, students must complete NEUR*6000, or show evidence of course equivalence in prior training. Note that students registered in the Collaborative Neuroscience Specialization cannot use NEUR*6000 as an elective to satisfy the requirements of their home department program. Students must be engaged in neuroscience dissertation research. During each term of their program of studies, doctoral students must enroll in NEUR*6100. The seminar will meet monthly. Students must take their qualifying exams within five semesters of entering the program, as required by University graduate policies. One member on the qualifying exam committee must be a core member of the collaborative specialization in Neuroscience outside the student's home department or a faculty member from another university approved by graduate studies. As well one member of the student's advisory committee must be a core member of the neuroscience collaborative specialization outside the student's home department or a faculty member from another university approved by graduate studies.

Courses

NEUR*6000 Principles of Neuroscience U [0.50]

This course is designed to ensure that graduate students with diverse neuroscience backgrounds registered in the collaborative specialization in Neuroscience are exposed to the fundamentals in all areas of neuroscience.

Department(s): Department of Biomedical Sciences

NEUR*6100 Seminar in Neuroscience U [0.00]

This course will expose graduate students to some of the major theories, issues and methodologies driving research in neuroscience. Students will learn to critically evaluate presentations by researchers in this field as well as to communicate the results of their own research.

Department(s): Department of Psychology

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Toxicology

The collaborative specialization is the focal point for graduate teaching and research in toxicology. Students wishing to undertake graduate studies at the MSc or PhD level with emphasis on toxicology will be admitted by a participating department and will register in both the participating department and in the collaborative specialization. The participating academic units include the Departments of Animal Biosciences, Biomedical Sciences, Chemistry, Human Health and Nutritional Sciences, Integrative Biology, Mathematics and Statistics, Molecular and Cellular Biology, Pathobiology, Plant Agriculture and the School of Environmental Sciences.

Administrative Staff

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Paul K. Sibley

Assistant Professor, School of Environmental Sciences

E. James Squires

Professor, Animal Biosciences

Glen J. Van Der Kraak

Professor, Integrative Biology and Associate Dean, Research, CBS

MSc Collaborative Specialization

Admission Requirements

MSc students in the collaborative specialization in toxicology must meet the MSc admission requirements of the participating department in which they are enrolled.

Degree Requirements

MSc students in the collaborative specialization in toxicology must complete a minimum of 1.50 graduate credits, which must include the toxicology courses TOX*6000 and TOX*6200 and courses required by the participating department in which they are enrolled. TOX*6000 may be waived for students whose undergraduate degree included significant training in toxicology.

PhD Collaborative Specialization

Admission Requirements

PhD students in the collaborative specialization in toxicology must meet the PhD admission requirements of the participating department in which they are enrolled.

Degree Requirements

PhD students in the collaborative specialization in toxicology must meet all the academic requirements specified by the participating department in which they are enrolled. They must also complete the courses TOX*6000 and TOX*6200 if they, or equivalent courses, were not taken as part of an MSc program.

Courses

TOX*6000 Advanced Principles of Toxicology S [0.50]

An intensive course in the principles of modern aspects of toxicology, taught in a lecture/case study format.

Department(s): Department of Chemistry

TOX*6200 Advanced Topics in Toxicology W [0.50]

Advanced topics in toxicology will include oral presentations by students, faculty members, and guest lecturers. The emphasis will be on advanced concepts and techniques in toxicology research with particular relevance to mechanistic, molecular and interpretive toxicology.

Restriction(s): Credit may be obtained for only one of TOX*6200 or TOX*4200
Department(s): Department of Chemistry

TOX*6590 Biochemical Toxicology F [0.50]

The molecular mechanisms of action of carcinogens and other toxic compounds. Enzymes of biotransformation, including a detailed study of cytochrome P-450. Interactions of reactive species with DNA and other macromolecules. (Credit may be obtained for only one of TOX*4590 and TOX*6590).

Department(s): Department of Chemistry

Other courses

BIOM*6721 [0.25] Special Topics in Pharmacology-Toxicology	
BIOM*6722 [0.50] Special Topics in Biomedical Pharmacology-	-Toxicology
CHEM*7310 [0.50] Selected Topics in Biochemistry	
CHEM*7600 [0.50] Selected Topics in Organic Chemistry	

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