Economics

This section presents the requirements for programs in:

- M.A. Economics
- M.A. Economics with Concentration in Financial Economics
- M.A. Economics with Specialization in African Studies
- M.A. Economics with Specialization in Data Science
- Master of Arts Economics with Concentration in Financial Economics - Master of Business Administration with Concentration in Finance and Economics
- Ph.D. Economics
- · Graduate Diploma in Economic Policy

Program Requirements

M.A. Economics (4.0 credits)

Requirements - Coursework option (4.0 credits)

1.	1.5 credits in:		1.5
	ECON 5020 [0.5]	Microeconomic Theory	
	ECON 5021 [0.5]	Macroeconomic Theory	
	ECON 5027 [0.5]	Econometrics I	
2.	0.5 credit in:		0.5
	ECON 5029 [0.5]	Methods of Economic Research	
3.	0.5 credit from:		0.5
	ECON 5055 [0.5]	Financial Econometrics	
	ECON 5712 [0.5]	Micro-Econometrics	
	ECON 5713 [0.5]	Time-Series Econometrics	
4.	1.5 credits in appr	oved electives	1.5
T	Total Credits 4.0		
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•		is ontion (4.0 cradits)	
R	equirements - Thes	is option (4.0 credits)	
R	equirements - Thes 1.5 credits in:		1.5
R	equirements - Thes 1.5 credits in: ECON 5020 [0.5]	Microeconomic Theory	
R	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5]	Microeconomic Theory Macroeconomic Theory	
R 1.	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5]	Microeconomic Theory	1.5
R 1.	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 0.5 credit from:	Microeconomic Theory Macroeconomic Theory Econometrics I	
R 1.	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 0.5 credit from: ECON 5055 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I Financial Econometrics	1.5
R 1.	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 0.5 credit from: ECON 5055 [0.5] ECON 5712 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I Financial Econometrics Micro-Econometrics	1.5
R 1.	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 0.5 credit from: ECON 5055 [0.5] ECON 5712 [0.5] ECON 5713 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I Financial Econometrics Micro-Econometrics Time-Series Econometrics	1.5
R 1.	equirements - Thes 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 0.5 credit from: ECON 5055 [0.5] ECON 5712 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I Financial Econometrics Micro-Econometrics Time-Series Econometrics	1.5

M.A. Economics

Total Credits

ECON 5909 [1.5] M.A. Thesis

with Concentration in Financial Economics (4.0 credits)

Requirements - Coursework option (4.0 credits)

1	. 1.5 credits in:		1.5
	ECON 5020 [0.5]	Microeconomic Theory	
	ECON 5021 [0.5]	Macroeconomic Theory	
	ECON 5027 [0.5]	Econometrics I	
2	. 1.0 credit in:		1.0
	ECON 5051 [0.5]	Asset Pricing	
	ECON 5052 [0.5]	Financial Markets and Instruments	

3. 0.5 credit in:		0.5
ECON 5029 [0.5]	Methods of Economic Research	
4. 0.5 credit in election	ve concentration from:	0.5
ECON 5055 [0.5]	Financial Econometrics	
ECON 5058 [0.5]	Advanced Topics in Financial Economics	
ECON 5602 [0.5]	International Monetary Theory and Policy	
ECON 5608 [0.5]	Monetary Economics and Financial Intermediation	
ECON 5713 [0.5]	Time-Series Econometrics	
	ved course (which may be an the elective concentration list)	0.5
Total Credits		4.0
Paguiroments - Thes	sis option (4.0 credits)	
1. 1.5 credits in:	sis option (4.0 credits)	1.5
ECON 5020 [0.5]	Microeconomic Theory	1.0
ECON 5020 [0.5]	Macroeconomic Theory	
ECON 5027 [0.5]	Econometrics I	
2. 1.0 credit in:	Econometrics i	1.0
ECON 5051 [0.5]	Asset Pricing	1.0
ECON 5052 [0.5]	Financial Markets and Instruments	
3. 1.5 credit in:	i ilialiciai ivialkets aliu ilistiuillelits	1.5
	M.A. Thesis	1.5
ECON 5909 [1.5] Total Credits	W.A. Mesis	4.0
M.A. Economics with Specialization credits)	on in African Studies (4.0	
with Specialization credits) Requirements - Court	on in African Studies (4.0	1.5
with Specialization credits) Requirements - Count. 1. 1.5 credits in:	rsework option (4.0 credits)	1.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5]	rsework option (4.0 credits) Microeconomic Theory	1.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5]	rsework option (4.0 credits) Microeconomic Theory Macroeconomic Theory	1.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5]	rsework option (4.0 credits) Microeconomic Theory	
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline:	0.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in:	Microeconomic Theory Macroeconomic Theory Econometrics I	
with Specialization credits) Requirements - Cour 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline:	0.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in:	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African	0.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0]	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African	0.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research preserved in the count in th	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies	0.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in Africa	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Unate Committee of the Institute of	0.5
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African M.A. Supervisor of the 6. 1.0 credit in ECON the Department of Econ to the Supervisor of the Econ to the Supervisor of the Econ to t	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic United Studies of the Institute of	0.5
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with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African M.A. Supervisor of the 6. 1.0 credit in ECON the Department of Econ ECON 5500, ECTotal Credits	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Unate Committee of the Institute of In Studies elective approved by the Perspective approved by the Pers	0.5 0.0 0.5 1.0
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African M.A. Supervisor of the 6. 1.0 credit in ECON the Department of Econ ECON 5500, ECTotal Credits	Microeconomic Theory Macroeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Paper on an African Stud	0.5 0.0 0.5 1.0
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African M.A. Supervisor of the 6. 1.0 credit in ECON the Department of Econ ECON 5500, ECTotal Credits Requirements - These	Microeconomic Theory Macroeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Paper on an African Stud	0.5 0.0 0.5 1.0
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African M.A. Supervisor of the 6. 1.0 credit in ECON the Department of Econt ECON 5500, ECTotal Credits Requirements - These 1. 1.5 credits in:	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Paper on the Institute of Paper on the Institute on the Institute of Paper on the Institute of Paper on the Institute on the Institute of Paper on the Institute on	0.5 0.0 0.5 1.0
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African M.A. Supervisor of the Content of Econtent ECON 5000, ECTOTAL Credits Requirements - These 1. 1.5 credits in: ECON 5020 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Puate Committee of the Institute of Purpose of Economics Purpose of Ec	0.5 0.0 0.5 1.0
with Specialization credits) Requirements - Count 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5] ECON 5027 [0.5] 2. 0.5 credit in: AFRI 5000 [0.5] 3. 0.0 credit in: AFRI 5800 [0.0] 4. 0.5 credit in: ECON 5029 [0.5] including a research papproved by the Grad African Studies 5. 0.5 credit in African African Studies 5. 0.5 credit in African African Studies 6. 1.0 credit in ECON the Department of Econ ECON 5500, EC Total Credits Requirements - These 1. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5]	Microeconomic Theory Macroeconomic Theory Econometrics I African Studies as a Discipline: Historical and Current Perspectives Scholarly Preparation in African Studies Methods of Economic Research Paper on an African Studies topic Paper on an	0.5 0.0 0.5 1.0

AFRI 5000 [0.5]	African Studies as a Discipline:		ECON 5713 [0.5]
7 11 11 0000 [0.0]	Historical and Current Perspectives		Total Credits
3. 0.0 credit in:		0.0	
AFRI 5800 [0.0]	Scholarly Preparation in African Studies		Master of Arts Ec Financial Econon
4. 1.5 credit in:		1.5	Master of Busines
ECON 5909 [1.5]	M.A. Thesis		with Concentration
	s topic approved by the Graduate		(10.0 credits)
	titute of African Studies	0.5	Students completing
5. 0.5 credit from:	Davidson and Farmanian I	0.5	graduate with: M.A. I
ECON 5500 [0.5]	Development Economics I		Financial Economics Financial Economics
ECON 5504 [0.5] ECON 5505 [0.5]	Development Economics II Selected Topics in Development		Financial Economics
LCON 3303 [0.3]	Economics		Requirements:
Total Credits		4.0	 6.0 credits in comp ACCT 5001 [0.25]
M.A. Economics			ACCT 5001 [0.25]
	ion in Data Science (4.0 credit	·e)	BUSI 5802 [0.25]
•	•	.3)	BUSI 5998 [0.0]
	rsework option (4.0 credits)		ECON 5020 [0.5]
1. 1.5 credits in:		1.5	ECON 5020 [0.5]
ECON 5020 [0.5]	Microeconomic Theory		ECON 5027 [0.5]
ECON 5021 [0.5]	Macroeconomic Theory		ECON 5027 [0.5]
ECON 5027 [0.5]	Econometrics I		FINA 5501 [0.25]
2. 0.5 credit in:		0.5	FINA 5502 [0.25]
DATA 5000 [0.5]	Data Science Seminar		
3. 0.5 credit in:		0.5	IBUS 5701 [0.25]
ECON 5029 [0.5]	Methods of Economic Research		ITIS 5401 [0.25]
	paper on a data science related topic		MGMT 5100 [0.5]
4. 0.5 credit from:		0.5	
ECON 5055 [0.5]	Financial Econometrics		MKTG 5200 [0.5]
ECON 5361 [0.5]	Labour Economics I		TOMS 5302 [0.25]
ECON 5362 [0.5]	Labour Economics II		STGY 5900 [0.5]
ECON 5700 [0.5]	Social and Economic Measurement		STGY 5903 [0.5]
ECON 5712 [0.5]	Micro-Econometrics		2. 1.75 credits in requ
ECON 5713 [0.5]	Time-Series Econometrics		ECON 5051 [0.5]
	N approved by the M.A. Supervisor of	0.5	ECON 5052 [0.5]
the Department of Ed		0.5	FINA 5512 [0.25]
	Science elective (which may be an n the preceding list) approved by the	0.5	FINA 5513 [0.25]
	e Department of Economics		FINA 5521 [0.25]
Total Credits		4.0	
Dogwiyamanta The	cic ention (4.0 evadita)		3. 0.5 credit in electiv
nequirements - The 1. 1.5 credits in:	sis option (4.0 credits)	1 E	ECON 5055 [0.5]
ECON 5020 [0.5]	Migragonomia Thoony	1.5	ECON 5058 [0.5]
	Microeconomic Theory		ECON 5000 to 51
ECON 5021 [0.5]	Macroeconomic Theory		ECON 5602 [0.5]
ECON 5027 [0.5]	Econometrics I	0.5	ECON 5608 [0.5]
2. 0.5 credit in: DATA 5000 [0.5]	Data Science Seminar	0.5	LCON 3000 [0.3]
3. 1.5 credit in:	Data Science Seminal	1 5	ECON 5713 [0.5]
	M A Thosis	1.5	4. 0.75 credit in M.B.A
ECON 5909 [1.5]	M.A. Thesis		5. 1.0 credit in:
governance comm	topic approved by the Data Science ittee		
4. 0.5 credit from:		0.5	
ECON 5055 [0.5]	Financial Econometrics		
ECON 5361 [0.5]	Labour Economics I		
ECON 5362 [0.5]	Labour Economics II		
ECON 5700 [0.5]	Social and Economic Measurement		
ECON 5712 [0.5]	Micro-Econometrics		
[0.0]			

ECON 5713 [0.5] Time-Series Econometrics

4.0

Master of Arts Economics with Concentration in Financial Economics -

Master of Business Administration with Concentration in Finance and Economics (10.0 credits)

Students completing the dual degree pathway will graduate with: M.A. Economics with Concentration in Financial Economics, and M.B.A. with Concentration in Financial Economics.

	equilements.		
1.	6.0 credits in comp	pulsory courses:	6.0
	ACCT 5001 [0.25]	Financial Accounting	
	ACCT 5002 [0.25]	Managerial Accounting	
	BUSI 5802 [0.25]	Business Ethics	
	BUSI 5998 [0.0]	MBA Skills Workshop	
	ECON 5020 [0.5]	Microeconomic Theory	
	ECON 5021 [0.5]	Macroeconomic Theory	
	ECON 5027 [0.5]	Econometrics I	
	ECON 5029 [0.5]	Methods of Economic Research	
	FINA 5501 [0.25]	Financial Management	
	FINA 5502 [0.25]	Corporate Finance	
	IBUS 5701 [0.25]	International Business	
	ITIS 5401 [0.25]	Managing Information Systems in Organizations	
	MGMT 5100 [0.5]	Managing People and Organizations	
	MKTG 5200 [0.5]	Marketing Strategy	
	TOMS 5302 [0.25]	Operations Management	
	STGY 5900 [0.5]	Corporate and Business Strategy	
	STGY 5903 [0.5]	Strategic Concepts	
2.	1.75 credits in req	uired concentration courses:	1.75
	ECON 5051 [0.5]	Asset Pricing	
	ECON 5052 [0.5]	Financial Markets and Instruments	
	FINA 5512 [0.25]	Valuation	
	FINA 5513 [0.25]	Mergers and Acquisitions	
	FINA 5521 [0.25]	Financial Management Concentration Integration	
3.	0.5 credit in elective	ve concentration from:	0.5
	ECON 5055 [0.5]	Financial Econometrics	
	ECON 5058 [0.5]	Advanced Topics in Financial Economics	
	ECON 5602 [0.5]	International Monetary Theory and Policy	
	ECON 5608 [0.5]	Monetary Economics and Financial Intermediation	
	ECON 5713 [0.5]	Time-Series Econometrics	
4.	0.75 credit in M.B.	A. elective courses	0.75
5.	1.0 credit in:		1.0

BUSI 5999 [1.0] Internship (Students with less than two (2) years of relevant professional employment experience must successfully complete the Internship in order to graduate. Students with two or more years relevant work experience may apply for an exemption.)
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Total Credits 10.0

Internship Placement

An Internship option is available to full-time students in the M.A. program who are eligible to work in Canada. Registration in the Internship option requires departmental permission and is limited by availability of placements. Application for an internship placement will normally be considered after the student has successfully completed 2.0 credits, including ECON 5020 and ECON 5027.

Internship placements will locate students for at least one term in the public service, the private sector, or non-governmental organizations. Students will integrate theoretical and applied economic analysis in their work experience. During their work term, students are required to register in ECON 5902 (Internship Placement), which is additional to the program requirements described above. While taking ECON 5902, students are considered to be part-time, and may register for at most 1.0 credit in total.

If the student is in receipt of a teaching assistantship, a research assistantship, or some other type of scholarship, the value of the award will be deferred to a later term. External awards will be issued or deferred in accordance with the relevant criteria of the associated agency.

Ph.D. Economics (6.0 credits)

Notwithstanding additional course work that may be required by the admissions committee as a condition of entry, students admitted to the Ph.D. program are required to complete:

To	otal Credits		6.0
	ECON 6909 [0.0]	Ph.D. Thesis	
3.	0.0 credits in:		0.0
2.	2.0 credits in ECO	N electives	2.0
	ECON 6515 [0.25]	Thesis Workshop II	
	ECON 6514 [0.25]	Thesis Workshop I	
	ECON 6513 [0.5]	Second Year Research Paper	
	ECON 6504 [0.5]	PhD Macroeconomics Theory II	
	ECON 6503 [0.5]	PhD Macroeconomic Theory I	
	ECON 6502 [0.5]	PhD Microeconomic Theory II	
	ECON 6501 [0.5]	PhD Microeconomic Theory I	
	ECON 6027 [0.5]	Econometrics II	
	ECON 6019 [0.5]	Mathematical Foundations for Economic Theory	
1.	4.0 credits in:		4.0
R	equirements:		

Students must pass the six first year core courses ECON 6019, ECON 6027, ECON 6501, ECON 6502, ECON 6503 and ECON 6504 within twelve months of beginning full time study. Should a student fail any of these courses they will be offered a supplemental exam

in August of their first year in each course that they failed. Students who do not pass all of the six core first year courses or their supplemental exams within twelve months of beginning full time study will normally be withdrawn from the Ph.D. program.

Students must take 2.0 credits in ECON electives. Students will choose one primary field of specialization as listed below and must take at least 1.0 credit of their ECON electives in this primary field. Students wishing to take courses from outside those listed below as part of their 2.0 credits in ECON electives must first obtain permission from the department.

Econometrics

ECON 5712 [0.5]	Micro-Econometrics
ECON 5713 [0.5]	Time-Series Econometrics
ECON 6714 [0.5]	Advanced Topics in Econometrics

Economic Development

ECON 5500 [0.5]	Development Economics I
ECON 5504 [0.5]	Development Economics II
ECON 5505 [0.5]	Selected Topics in Development Economics

Economics of the Environment

ECON 5803 [0.5]	Economics of Natural Resources
ECON 5804 [0.5]	Economics of the Environment
ECON 5805 [0.5]	Topics in Environmental and
	Resource Economics

Industrial Organization

-	
ECON 5301 [0.5]	Industrial Organization I
ECON 5303 [0.5]	Industrial Organization II
ECON 5304 [0.5]	Topics in Industrial Organization

International Economics

ECON 5601 [0.5]	International Trade: Theory and Policy
ECON 5602 [0.5]	International Monetary Theory and Policy
ECON 5603 [0.5]	Topics in International Economics

Labour Economics

ECON 5361 [0.5]	Labour Economics I
ECON 5362 [0.5]	Labour Economics II
ECON 5363 [0.5]	Advanced Topics in Labour Economics

Monetary Economics

ECON 5606 [0.5]	Foundations of Monetary Economics
ECON 5607 [0.5]	Topics in Monetary Economics
ECON 5609 [0.5]	Explorations in Monetary Economics

Public Economics

ECON 5401 [0.5]	Public Economics: Expenditures
ECON 5402 [0.5]	Public Economics: Taxation
ECON 5403 [0.5]	Topics in the Theory of Public Economics

Second Year Paper

In the summer of their first year, students register in ECON 6513 Second Year Research Paper. Students who

do not successfully complete ECON 6513 and 2.0 credits of Economics electives within 28 months of beginning full-time study will normally be withdrawn from the Ph.D. program.

Thesis Requirements

Doctoral students will write and defend a Ph.D. thesis. In preparing the thesis, the student is required to give two thesis workshops. In the first (ECON 6514), a research proposal for the thesis will be presented for evaluation by at least three faculty members. In the second (ECON 6515), a substantial portion of the research for the thesis will have been completed and will be presented. The student's progress will be evaluated by at least three faculty members.

Guidelines for Completion of Ph.D. Degree

Full-time Ph.D. students are expected to complete their requirements within five calendar years. Students who undertake the program by a combination of full-time and part-time study must complete their degree requirements within an elapsed period of nine calendar years, as set out in the General Regulations section of the Graduate Calendar.

Graduate Diploma in Economic Policy (2.0 credits)

The Graduate Diploma is designed to be completed in one year. However, as it is understood that most students will be either working for pay or full-time students in another graduate program, they may take the Graduate Diploma program on either a part-time or full-time basis.

1	. 0.5 credit in:		0.5
	ECON 5060 [0.5]	Economic Analysis of Public Policy	
2	. 1.5 credits from:		1.5
	ECON 5061 [0.5]	Central Banking: Theory, Practice, and Recent Challenges	
	ECON 5062 [0.5]	Fiscal Policy in Canada: Practice and Challenges	
	ECON 5063 [0.5]	Innovation Policy and Economic Growth	
	ECON 5064 [0.5]	Economic Policy Formulation and Evaluation	
	ECON 5065 [0.5]	Selected Topics in Economic Policy	

Total Credits 2.0

Students can take up to 1.0 credit of other electives courses related to economic policy offered outside the Department of Economics, with the approval of the M.A. Supervisor.

Regulations

See the General Regulations section of this Calendar.

A grade of B- or higher must be received in each required core course in the M.A. program: ECON 5020, ECON 5021, ECON 5027, and ECON 5029. With respect to all other courses, a student may, with the recommendation of the Department and the approval of the Dean of the Faculty of Graduate and Postdoctoral Affairs, be allowed a grade of C+ in up to a maximum of 1.0 credit.

Students following the M.A.-M.B.A. dual pathway are governed by the academic regulations for the M.A. (above) and the M.B.A. For academic regulations concerning the M.B.A. visit the Business programs section of this Calendar.

Guidelines for Completion of Master's Degree

All approved elective courses will normally be taken at the 5000 level.

Full-time master's students are expected to complete their 4.0-credit requirements within two terms. Part-time students will take a minimum of five terms but must complete within an elapsed period of six calendar years, as set out in Section 13 of the General Regulations of this Calendar.

Regulations

See the General Regulations section of this Calendar.

Doctoral students must normally obtain a grade of B- or higher in each credit counted towards the degree.

Regulations

See the General Regulations section of this Calendar.

Graduate Diploma students must normally obtain a grade of B- or higher in each course counted towards the Diploma.

Admission

The normal requirement for admission to the master's program is a B.A. (Honours) (or the equivalent) in Economics, with an average grade of B+ or higher.

Applicants to the M.A.-M.B.A. dual degree pathway must qualify for admission for both the M.A. Economics and the M.B.A. program. For admission information concerning the M.B.A., visit the Business section of this Calendar.

Applicants are expected to have had adequate preparation in microeconomic and macroeconomic theory, econometrics, and mathematics. This could be satisfied, for example, by having completed undergraduate courses in advanced microeconomic theory, advanced macroeconomic theory, econometric theory and methods, mathematical analysis in economics, and statistical analysis in economics. Students with deficiencies in their preparation may have their program requirements extended accordingly.

Post-Baccalaureate Diploma: Applicants who lack the required undergraduate preparation may be admitted to the Post-Baccalaureate Diploma program in Economics designed to raise their standing to honours status. Refer to the Undergraduate Calendar for details about this program as well as the regulations governing it.

The Department may require certain applicants to write the Graduate Record Examination Aptitude Test and the Advanced Test in Economics offered by the Educational Testing Service.

Applicants whose first language is not English must certify adequate proficiency in English in one of the following ways:

- by presenting a CAEL overall band score of 70 or higher; or
- by presenting a TOEFL iBT total score of 100 or higher with a score of 24 or higher on each of the four (Listening, Reading, Writing, and Speaking) sections; or
- by presenting an IELTS overall band score of 7.0 or higher with a score of 6.5 or higher on each of the four (Listening, Reading, Writing, and Speaking) parts; or
- by having completed ESLA 1900 [1.0] or ESLA 1905 [1.0] at Carleton University with a final grade of B- or higher.

Admission

The normal requirement for admission into the Ph.D. program is a master's degree (or the equivalent) from a recognized university with high honours standing. The Department may require certain applicants to write the Graduate Record Examination Aptitude Test and the Advanced Test in Economics offered by the Educational Testing Service.

In cases of exceptional merit, Ph.D. candidates may be accepted on a part-time basis.

Transfer from Master's to Ph.D. Program

A student who achieves outstanding academic performance and demonstrates high promise for advanced research during the master's program may, with the permission of the Department, transfer into the Ph.D. program without completing the M.A. program if they have completed ECON 5020 (ECO 6120), ECON 5021 (ECO 6122), and ECON 5027 (ECO 5185) with an average grade of A or higher. Such students must take a total of at least eleven regular courses (M.A. and Ph.D. levels combined) and do not receive an M.A. degree. However, students who make the transfer and do not complete the Ph.D. can receive an M.A. by fulfilling all the requirements of the M.A. program.

Admission

The minimum requirement for admission to the Graduate Diploma program is an undergraduate degree with a GPA of 9.0 (out of 12) or higher, preferably with honours, successfully completed university-level introductory (micro- and macro-) economics, calculus, and linear algebra with a grade of C+ or higher in each, and permission of the Department of Economics. The normal requirement for admission is that the undergraduate degree be in economics or equivalent.

Economics (ECON) Courses

ECON 5020 [0.5 credit] (ECO 6122, ECO 6522) Microeconomic Theory

An introduction to graduate-level microeconomic theory, including topics such as utility maximization and individual choice, decision-making under uncertainty, producer theory (technology, costs, and profit maximization), alternative market structures (competition, monopoly, and oligopoly), general equilibrium, and the economics of information.

Precludes additional credit for ECON 5000 (no longer offered) and ECON 5001 (no longer offered).

ECON 5021 [0.5 credit] (ECO 6120, ECO 6520) Macroeconomic Theory

An introduction to graduate-level macroeconomic theory, including topics such as economic growth, consumption, investment, real and nominal frictions in the goods, labour, and credit markets, models of short-run economic fluctuations, and monetary and fiscal policy design. Precludes additional credit for ECON 5002 (no longer offered).

ECON 5027 [0.5 credit] (ECO 5185, ECO 5585) Econometrics I

An introduction to econometrics at the graduate level. Topics include the analysis and treatment of univariate and multivariate regression models, GLS, IV, and maximum likelihood estimation, hypothesis testing, seemingly unrelated regression models, and simultaneous equations models, together with relevant economic applications. Precludes additional credit for ECON 5005 (no longer offered).

ECON 5029 [0.5 credit] Methods of Economic Research

Formulation, specification, and analysis of economic and econometric models; derivation of policy implications; communication of results and economic methodology. Includes: Experiential Learning Activity

Precludes additional credit for ECON 5006 (no longer offered).

Prerequisite(s): ECON 5020 (ECON 5000 if taken before 2012-2013, ECON 5001 if taken before 2007-2008) and ECON 5027 (ECON 5005 if taken before 2012-2013), or permission of the Department.

ECON 5051 [0.5 credit] Asset Pricing

Value, the dynamic optimization problems of firms and investors, risk-neutral pricing, and related topics.

ECON 5052 [0.5 credit] Financial Markets and Instruments

Capital structure, debt financing, options, financial planning, corporate governance, and related topics.

ECON 5055 [0.5 credit] Financial Econometrics

The econometrics of empirical finance including parametric and nonparametric models of volatility, evaluation of asset-pricing theories, and models for risk management and transactions data.

Prerequisite(s): ECON 5027 (or equivalent).

ECON 5058 [0.5 credit]

Advanced Topics in Financial Economics

Current research in financial economics. Topics may include theoretical analysis, quantitative methods, policy issues, and applications to the financial industry. Prerequisite(s): ECON 5051 or ECON 5052, which may be taken concurrently with ECON 5058.

ECON 5060 [0.5 credit] Economic Analysis of Public Policy

This course examines how economic theory and empirical analysis are used to design and evaluate public policies.

ECON 5061 [0.5 credit]

Central Banking: Theory, Practice, and Recent Challenges

Issues related to the formulation and implementation of monetary policy in Canada and other countries. The theoretical basis for such policy. Ways in which policy makers have addressed practical issues of central-bank policy making over the years.

ECON 5062 [0.5 credit]

Fiscal Policy in Canada: Practice and Challenges

Formulation and implementation of fiscal policy by the Government of Canada over recent decades. Assessment of the inputs (both analytical and political) into decision-making, the importance of public communications, the role of federal-provincial relations, and the roles of the bureaucracy and Cabinet.

ECON 5063 [0.5 credit]

Innovation Policy and Economic Growth

An overview of the issues facing policy makers in trying to improve the innovative performance of the economy. The links between innovation, productivity, and economic growth. Topics may include private-sector innovation financing and the roles of government laboratories, universities, and intellectual property in promoting innovation.

ECON 5064 [0.5 credit]

Economic Policy Formulation and Evaluation

Formulation of a policy paradigm based in economic theory and application of it to various relevant and current federal, provincial, and municipal policies, including those relating to health, pensions, income inequality, social assistance, division of powers, education, labour, Indigenous peoples, tax expenditures, and the environment.

ECON 5065 [0.5 credit]

Selected Topics in Economic Policy

This course provides an overview of selected topics at the forefront of Economic Policy from both a theoretical and empirical perspective. Possible topics include regulation of financial markets, cryptocurrency, competition policy, environmental policy, artificial intelligence and machine learning for public policy, among others.

ECON 5209 [0.5 credit] (ECO 6106, ECO 6506) Selected Topics in the History of Economic Thought

The development of economic thought through time in relation to selected economic problems. Precludes additional credit for ECON 5201 (no longer offered) and ECON 5202 (no longer offered). Also offered at the undergraduate level, with different requirements, as ECON 4209, for which additional credit is precluded.

ECON 5230 [0.5 credit] Economic History

The application of economic theory and quantitative techniques to selected topics in economic history, which may include historical patterns of growth and welfare, nineteenth-century globalization, technological change, the development of agriculture, industrialization, the Great Depression, and the origins of central banks. Also offered at the undergraduate level, with different requirements, as ECON 4230, for which additional credit is precluded.

ECON 5301 [0.5 credit] (ECO 6140, ECO 6540) Industrial Organization I

An examination of theories pertaining to industrial organization and their application by way of empirical studies. Topics include oligopoly theory, product differentiation, and strategic behaviour.

ECON 5303 [0.5 credit] (ECO 6142, ECO 6542) Industrial Organization II

Regulation and competition policy as alternative approaches for influencing industry conduct and performance and correcting market failures. Topics may include incentive regulation under asymmetric information, cost-based pricing, second-best pricing, peak-load pricing, rate-of-return regulation, price-cap regulation, access pricing, and regulatory capture.

ECON 5304 [0.5 credit] (ECO 6135, ECO 6535) Topics in Industrial Organization

Topics may include vertical restraints and vertical integration, innovation and research and development, network economics, contract theory, search theory and advertizing, and industry studies.

ECON 5309 [0.5 credit] Applied Industrial Economics

The application of industrial economics, with special emphasis on Canada and the rest of North America. Topics include the structure of consumer demand, firm production and investment, industrial structure and international trade, and the effect of government policies on industrial development.

ECON 5361 [0.5 credit] (ECO 6191, ECO 6591) Labour Economics I

The application of microeconomic and macroeconomic theory to the labour market. Topics include labour supply and labour demand, wage determination, human capital, and the economics of education, and unemployment. Precludes additional credit for ECON 5360 (no longer offered) and ECON 5307 (no longer offered).

ECON 5362 [0.5 credit] (ECO 6192, ECO 6592) Labour Economics II

Personnel economics and contract theory. Topics include the economics of unions, discrimination, the economics of the household, gender and fertility, and labour mobility.

ECON 5363 [0.5 credit] (ECO 6193, ECO 6593) Advanced Topics in Labour Economics

Topics may include program evaluation, inequality, labour markets and health, labour markets and crime, and the structural estimation of labour market models.

Precludes additional credit for ECON 5360 (no longer offered) and ECON 5307 (no longer offered).

ECON 5401 [0.5 credit] (ECO 6130, ECO 6530) Public Economics: Expenditures

The theory of public expenditures. Topics may include public goods and externalities, social insurance and redistribution, public provision of health care and education, public pension systems, and unemployment insurance.

ECON 5402 [0.5 credit] (ECO 6131, ECO 6531) Public Economics: Taxation

The study of tax systems. Concepts of equity and efficiency in taxation. The optimal design of tax structures using commodity, income, and capital taxes. Additional topics may include political economy of taxation, low-income support, environmental taxes, and tax evasion.

ECON 5403 [0.5 credit] (ECO 6133, ECO 6533) Topics in the Theory of Public Economics

Topics may include political economy, tax incidence in general equilibrium, the theory and practice of tax reform, normative approaches to income redistribution, the theory of non-market decision-making, the non-profit sector, and social choice theory.

ECON 5404 [0.5 credit] Fiscal Federalism

Economic aspects of federalism, including efficiency, redistribution, consideration of a federal system of government, intergovernmental grants, and problems of stabilization policy in a federal context.

ECON 5407 [0.5 credit]

Cost-Benefit Analysis and Project Evaluation

Techniques and problems in cost-benefit analysis and the evaluation of public and private projects. Topics may include surplus measurement, investment decision rules, shadow pricing, the valuation of non-marketed goods, distributive weights, and the evaluation of projects involving uncertainty, loss of life, and/or population change.

ECON 5460 [0.5 credit] (ECO 6174, ECO 6574) Health Economics

Review of both classic and frontier work in the field of health and health care economics. Empirical work with an emphasis on theory and methodology. This course is also relevant to students interested in broader empirical microeconomic research.

ECON 5500 [0.5 credit] (ECO 6170, ECO 6570) Development Economics I

Topics at the forefront of development economics, combining theoretical and empirical analysis. Topics may include economic growth, firm behaviour, institutions, and political economy.

ECON 5504 [0.5 credit] (ECO 6171, ECO 6571) Development Economics II

A selection of topics currently at the forefront of research in development economics. Topics may include poverty and income distribution, labour markets, financial markets, and education.

ECON 5505 [0.5 credit] (ECO 6172, ECO 6572) Selected Topics in Development Economics

Overview of selected topics of current interest in the field of development economics from both a theoretical and empirical perspective.

ECON 5507 [0.5 credit] (ECO 6173, ECO 6573) Environmental Aspects of Economic Development

Policy aspects of sustainable economic development and environmental quality in developing countries. Topics may include energy use, deforestation, drought and desertification, depletion of natural resources, debt, environment and poverty, sustainable industrial and agricultural development, conservation policies, pollution control, and global environmental issues.

ECON 5601 [0.5 credit] (ECO 6160, ECO 6560) International Trade: Theory and Policy

International trade theory and its implications for economic policy, with emphasis on topics such as determinants of trade and specialization, gains from trade and commercial policy, international factor mobility, growth, and development.

ECON 5602 [0.5 credit] (ECO 6161, ECO 6561) International Monetary Theory and Policy

International monetary theory and its implications for economic policy, with emphasis on topics such as sources of equilibrium and disequilibrium in the balance of payments, balance-of-payments adjustment under fixed versus flexible exchange rates, international capital movements, and recent issues in the international monetary system.

ECON 5603 [0.5 credit] (ECO 6162, ECO 6562) Topics in International Economics

Selected topics in international economics, including theoretical analysis, quantitative methods, and policy formulation, implementation, and evaluation.

ECON 5606 [0.5 credit] (ECO 6180, ECO 6580) Foundations of Monetary Economics

Microeconomic foundations of monetary theory. Alternative theories of the existence of money and the microfoundations for how money is integrated into aggregate macroeconomic models.

ECON 5607 [0.5 credit] (ECO 6181, ECO 6581) Topics in Monetary Economics

Coverage of one or more areas of current research on the frontiers of monetary economics.

ECON 5608 [0.5 credit] (ECO 6182, ECO 6582) Monetary Economics and Financial Intermediation

The evolution of the financial system and its interrelationship with the money supply process. Monetary and finance theory and empirical research applied to institutional problems in both historical and contemporary settings. Topics may include credit markets, financial instability, bubbles, and links to central bank policy.

ECON 5609 [0.5 credit] (ECO 6183, ECO 6583) Explorations in Monetary Economics

Explorations in the theory, policy and empirics of monetary economics.

ECON 5700 [0.5 credit] Social and Economic Measurement

Index number theory and national accounting. Topics may include: biases in indexes, inflation accounting, the theory of international comparisons, and the measurement of business and personal income, capital and depreciation, and productivity.

ECON 5712 [0.5 credit] (ECO 6175, ECO 6575) Micro-Econometrics

Analysis of the concepts and tools used in microeconometrics with particular focus on empirical applicability. Topics may include discrete choice models, limited dependent variables, panel data, duration models, and program evaluation, together with relevant economic applications.

Precludes additional credit for ECON 5702 (no longer offered).

Prerequisite(s): ECON 5027 (or equivalent), or permission of the Department.

ECON 5713 [0.5 credit] (ECO 6176, ECO 6576) Time-Series Econometrics

Analysis of the concepts and tools used in timeseries econometrics with particular focus on empirical applicability. Topics may include cointegration analysis, error-correction models, VAR models, volatility analysis, and non-linear time-series models, together with relevant economic applications.

Precludes additional credit for ECON 5703 (no longer offered).

Prerequisite(s): ECON 5027 (or equivalent), or permission of the Department.

ECON 5801 [0.5 credit] Regional Economics

Regional economic disparities in Canada, theories and public policy relating thereto. Consideration will be given to the concept of regions, location of industry and industrial structure, and to growth determinants.

ECON 5802 [0.5 credit] Urban Economics

The economic properties of urban areas. Attention will be focused on the macrodynamics of urban development, together with the microstatics of the equilibrium properties of the urban land market.

ECON 5803 [0.5 credit] (ECO 6143, ECO 6543) Economics of Natural Resources

The concept of scarcity rents in static and dynamic settings. Basic property regimes: open access, exclusive access and common property. Policy instruments. The importance of transaction costs. General-equilibrium and political-economic aspects of property regimes. Conflict. Elements of dynamic optimization. Renewable and non-renewable resources.

Precludes additional credit for ECON 5305 (no longer offered).

ECON 5804 [0.5 credit] (ECO 6151, ECO 6551) Economics of the Environment

Theory of environmental regulation, including command and control, incentive based mechanisms, effects of market structure, and interactions with pre-existing taxes. Valuation of non-marketed goods, including existence value, contingent valuation, hedonic price methods, health impacts, irreversibility, and recreational benefits. Precludes additional credit for ECON 5306 (no longer offered).

ECON 5805 [0.5 credit] (ECO 6134, ECO 6534) Topics in Environmental and Resource Economics

Topics may include: international dimensions of environmental regulation, including treaties, competitiveness, and the effects of trade liberalization; development issues, including fiscal sustainability, Dutch disease, the resource curse, and population growth; resource topics, including optimal taxation, green national accounts, sustainability theory, and scarcity of extractive resources.

ECON 5820 [0.5 credit]

The Canadian Economy

Aspects and problems of the Canadian economy. Economic theory applied to the workings of the Canadian economy. Topics may include regional development, industrial organization, factor markets, natural resources, income distribution, international trade and capital flows, and macroeconomic stability.

Precludes additional credit for ECON 5101 (no longer offered) and ECON 5102 (no longer offered).

ECON 5840 [0.5 credit]

Law and Economics

The interrelationships between law and economics, emphasizing transaction costs and property rights. Economic analysis of such topics as the allocative effects of alternative property rights, contract, tort, and nuisance law, and the economics of crime, pollution, pay television, and eminent domain.

Precludes additional credit for ECON 5308 (no longer offered).

ECON 5880 [0.5 credit]

Special Topics

Topics may vary from year to year and are announced in advance of the registration period.

Prerequisite(s): permission of the Department.

ECON 5902 [0.5 credit]

Internship Placement

Internship students are required to register in this course during their work term.

Includes: Experiential Learning Activity
Prerequisite(s): permission of the Department.

ECON 5906 [0.5 credit] Directed Research

A substantial research paper is required of any student enrolled in this course, which is designed to facilitate the pursuit of research on a topic chosen in consultation with a faculty member and the relevant Graduate Supervisor. Includes: Experiential Learning Activity

Prerequisite(s): permission of the Department.

ECON 5909 [1.5 credit]

M.A. Thesis

Includes: Experiential Learning Activity
Prerequisite(s): At least A- in each of ECON 5020,
ECON 5021, and ECON 5027, and approval of the
Department.

ECON 6019 [0.5 credit] (ECO 7119)

Mathematical Foundations for Economic Theory

Mathematical techniques needed to understand microand macro-economic theory at the Ph.D. level, and to carry out research. Real analysis. Review of static optimization. Continuous- and discrete-time dynamic optimization in deterministic and stochastic environments. Applications to economic theory are presented. Includes: Experiential Learning Activity Prerequisite(s): ECON 5020 (or equivalent) and ECON 5021 (or equivalent), or permission of the Department.

ECON 6027 [0.5 credit] (ECO 7126, ECO 7526) Econometrics II

Statistical foundations of econometrics: estimation, inference, and decision theory. Topics may include likelihood and moment-based inference, asymptotic theory, semi-parametric and non-parametric models, Bayesian approaches, and structural models, together with relevant economic applications.

Includes: Experiential Learning Activity
Precludes additional credit for ECON 5701 (no longer offered) and ECON 6005 (no longer offered).
Prerequisite(s): ECON 5027 (or equivalent).

ECON 6501 [0.5 credit] PhD Microeconomic Theory I

Topics include demand, production, general equilibrium, and welfare economics.

Precludes additional credit for ECON 6020 (no longer offered).

ECON 6502 [0.5 credit] PhD Microeconomic Theory II

Topics may include game theory, information economics, externalities and public goods.

Precludes additional credit for ECON 6020 (no longer offered).

ECON 6503 [0.5 credit] PhD Macroeconomic Theory I

Analysis of dynamic macroeconomic systems, with applications to economic growth. Micro-foundations of modern macroeconomics, with a focus on solving dynamic optimization problems and applied to consumption, portfolio, and investment decisions, and to micro-founded growth models.

Precludes additional credit for ECON 6021 (no longer offered).

ECON 6504 [0.5 credit]

PhD Macroeconomics Theory II

Modern dynamic stochastic general equilibrium models, such as real-business-cycle models, models of labour-market and financial frictions, and heterogeneous-agent models. Students also learn computational techniques to solve and estimate these models.

Precludes additional credit for ECON 6021(no longer offered).

ECON 6513 [0.5 credit]

Second Year Research Paper

This course aids the transition to the research phase of the program. Students complete a research paper and formally present this paper in a departmental workshop. Includes: Experiential Learning Activity

ECON 6514 [0.25 credit]

Thesis Workshop I

Students present a research proposal that includes an advanced draft of a substantive chapter of their thesis for evaluation by at least three faculty members.

Includes: Experiential Learning Activity

Prerequisite(s): ECON 6013.

ECON 6515 [0.25 credit]

Thesis Workshop II

Students present a substantial portion of their thesis for evaluation by at least three faculty members. This must include a revised draft of their first substantive chapter of their thesis, and an advanced draft of their second substantive chapter.

Includes: Experiential Learning Activity

Prerequisite(s): ECON 6014.

ECON 6714 [0.5 credit] (ECO 7177, ECO 7577)

Advanced Topics in Econometrics

Coverage of one or more areas of current econometric research.

Prerequisite(s): ECON 6027 (ECON 6005 if taken before

2012-2013).

ECON 6904 [0.5 credit] (ECO 7980)

Directed Readings

This course is designed to permit students to pursue research on topics chosen in consultation with faculty members and the Ph.D. Supervisor.

Prerequisite(s): permission of the Department.

ECON 6909 [0.0 credit] (ECO 9999)

Ph.D. Thesis

Includes: Experiential Learning Activity