Economics

- 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
- M.A. M.B.A.
- · Ph.D. Economics

M.A. Economics

Academic 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.

Admission Requirements

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

- 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;
- 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.

Program Requirements

M.A. Economics

M.A. Economics - Coursework option (4.0 credits)

I. 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	
may be selected from	roved courses, 1.0 credit of which among those offered in a related proval of the Department, through	2.0
he M.A. Supervisor		
he M.A. Supervisor Total Credits		4.0
Fotal Credits	nosis ontion (A 0 credits)	4.0
Total Credits M.A. Economics - Th	nesis option (4.0 credits)	
Total Credits M.A. Economics - The control of the		4.0
Total Credits M.A. Economics - Th I. 1.5 credits in: ECON 5020 [0.5]	Microeconomic Theory	
Fotal Credits M.A. Economics - Th I. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5]		
Total Credits M.A. Economics - Th I. 1.5 credits in: ECON 5020 [0.5]	Microeconomic Theory Macroeconomic Theory	
Fotal Credits M.A. Economics - Th I. 1.5 credits in: ECON 5020 [0.5] ECON 5021 [0.5] ECON 5027 [0.5]	Microeconomic Theory Macroeconomic Theory	1.5
Fotal Credits M.A. Economics - The control of the	Microeconomic Theory Macroeconomic Theory Econometrics I M.A. Thesis	1.5

Economics - 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 from:		0.5
ECON 5055 [0.5]	Financial Econometrics	

	ECON 5058 [0.5]	Advanced Topics in Financial Economics			topic approved by the Graduate itute of African Studies	
	ECON 5602 [0.5]			5. 0.5 credit from:		0.5
		and Policy		ECON 5500 [0.5]	Theory of Economic Development	
	ECON 5608 [0.5]	Monetary Economics and		ECON 5504 [0.5]	Economic Development: Domestic	
		Financial Intermediation			Aspects	
	0.5 credit in app	roved course	0.5	ECON 5505 [0.5]	Economic Development:	
	Total Credits		4.0		International Aspects	
м	Δ Fronomics with	Concentration in Financial		Total Credits		4.0
	onomics - Thesis o			M A Franchics with	1 Specialization in Data Science -	
	1.5 credits in:	. ,	1.5	Coursework option (•	
	ECON 5020 [0.5]	Microeconomic Theory		1. 1.5 credits in:	,	1.5
		Macroeconomic Theory		ECON 5020 [0.5]	Microeconomic Theory	
		Econometrics I		ECON 5021 [0.5]	Macroeconomic Theory	
2.	1.0 credit in:		1.0	ECON 5027 [0.5]	Econometrics I	
	ECON 5051 [0.5]	Asset Pricing		2. 0.5 credit in:		0.5
	ECON 5052 [0.5]	Financial Markets and Instruments		DATA 5000 [0.5]	Data Science Seminar	
3.	1.5 credit in:		1.5	3. 0.5 credit in:		0.5
	ECON 5909 [1.5]	M.A. Thesis		ECON 5029 [0.5]	Methods of Economic Research	
Tot	al Credits		4.0	including a research p	paper on a data science related topic	
		Specialization in African Studies		the Department of Eco	N approved by the M.A. Supervisor of conomics, including at least 0.5 credit	1.0
	oursework option ((4.0 Credits)	1.5		ON 5361, ECON 5362, ECON 5700,	
		Microeconomic Theory	1.5	ECON 5712, ECON 5		0.5
		Macroeconomic Theory			Science elective (which may be an the preceding list) approved by the	0.5
		Econometrics I			Department of Economics	
	0.5 credit in:	Econometrics i	0.5	Total Credits	<u>'</u>	4.0
		African Studies as a Discipline:	0.5			
		Historical and Current Perspectives			n Specialization in Data Science -	
3.	0.0 credit in:	·	0.0	Thesis option (4.0 cr 1. 1.5 credits in:	edits)	1.5
	AFRI 5800 [0.0]	Scholarly Preparation in African			Microscopomic Theory	1.5
		Studies		ECON 5020 [0.5]	Microeconomic Theory Macroeconomic Theory	
4.	0.5 credit in:		0.5	ECON 5021 [0.5] ECON 5027 [0.5]	Econometrics I	
	ECON 5029 [0.5]	Methods of Economic Research		2. 0.5 credit in:	Econometrics i	0.5
		aper on an African Studies topic		DATA 5000 [0.5]	Data Science Seminar	0.5
		ate Committee of the Institute of		3. 1.5 credit in:	Data Science Seminal	1.5
	ican Studies	Objection also the annual and but the	0.5	ECON 5909 [1.5]	M.A. Thesis	1.5
		Studies elective approved by the Department of Economics	0.5		opic approved by the Data Science	
		approved by the M.A. Supervisor of	1.0	governance commi		
		nomics, including at least 0.5 credit	1.0	4. 0.5 credit from:		0.5
		ON 5504, ECON 5505		ECON 5055 [0.5]	Financial Econometrics	
Tot	al Credits		4.0	ECON 5361 [0.5]	Labour Economics I	
		0		ECON 5362 [0.5]	Labour Economics II	
	A. Economics with hesis option (4.0 c	Specialization in African Studies		ECON 5700 [0.5]	Social and Economic Measurement	
	1.5 credits in:	reuris)	1.5	ECON 5712 [0.5]	Micro-Econometrics	
		Microeconomic Theory	1.5	ECON 5713 [0.5]	Time-Series Econometrics	
		Macroeconomic Theory		Total Credits		4.0
		Econometrics I				0
	0.5 credit in:		0.5	M.A M.B.A.		
		African Studies as a Discipline:	0.0		g the dual degree pathway will	
		Historical and Current Perspectives		•	Economics with Concentration in	
3.	0.0 credit in:		0.0		s, and M.B.A. with Concentration i	n
		Scholarly Preparation in African		Financial Economic	S.	
		Studies		M.AM.B.A. (10.0 cre	edits)	
4.	1.5 credit in:		1.5	Requirements:		
	ECON 5909 [1.5]	M.A. Thesis		1. 5.75 credits in cor	mpulsory courses:	5.75

ACCT 5001 [0.25] Financial 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] Fundamentals of IT Service Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required concentration courses: 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 concentration Integration 3. 0.5 credit in elective concentration Monetary Theory and Policy ECON 5058 [0.5] Financial Econometrics ECON 5058 [0.5] Monetary Economics and Financial Intermediation 4. 1.0 credit in M.B.A. elective courses 1.0 5. 1.0 credit in: 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.) Total Credits 10.0				
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] Fundamentals of IT Service Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 6301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required concentration courses: ECON 5051 [0.5] Asset Pricing ECON 5052 [0.5] Financial Markets and Instruments FINA 5513 [0.25] Mergers and Acquisitions FINA 5513 [0.25] Financial Management Concentration Integration 3. 0.5 credit in elective concentration from: ECON 5055 [0.5] Financial Econometrics ECON 5058 [0.5] Financial Econometrics ECON 5058 [0.5] International Monetary Theory and Policy ECON 5608 [0.5] Monetary Economics and Financial Intermediation 4. 1.0 credit in: 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.)		ACCT 5001 [0.25]	Financial Accounting	
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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] Fundamentals of IT Service Management MGMT 5100 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 concentration from: 0.5 ECON 5058 [0.5] Financial Econometrics ECON 5058 [0.5] Financial Econometrics ECON 5058 [0.5] Monetary Economics and Financial Intermediation 4. 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.)		BUSI 5998 [0.0]	MBA Skills Workshop	
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FINA 5501 [0.25] Financial Management FINA 5502 [0.25] Corporate Finance IBUS 5701 [0.25] International Business ITIS 5401 [0.25] Fundamentals of IT Service Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 concentration from: 0.5 ECON 5055 [0.5] Financial Econometrics ECON 5058 [0.5] Advanced Topics in Financial Economics ECON 5602 [0.5] Monetary Economics and Financial Intermediation 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		ECON 5027 [0.5]	Econometrics I	
FINA 5502 [0.25] Corporate Finance IBUS 5701 [0.25] International Business ITIS 5401 [0.25] Fundamentals of IT Service Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 concentration from: 0.5 ECON 5055 [0.5] Financial Econometrics ECON 5058 [0.5] Advanced Topics in Financial Economics ECON 5602 [0.5] Monetary Economics and Financial Intermediation 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		ECON 5029 [0.5]	Methods of Economic Research	
IBUS 5701 [0.25] International Business ITIS 5401 [0.25] Fundamentals of IT Service Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		FINA 5501 [0.25]	Financial Management	
ITIS 5401 [0.25] Fundamentals of IT Service Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		FINA 5502 [0.25]	Corporate Finance	
Management MGMT 5100 [0.5] Managing People and Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 concentration from: 0.5 ECON 5055 [0.5] Financial Econometrics ECON 5058 [0.5] Financial Econometrics ECON 5060 [0.5] International Monetary Theory and Policy ECON 5608 [0.5] Monetary Economics and Financial Intermediation 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		IBUS 5701 [0.25]	International Business	
Organizations MKTG 5200 [0.5] Marketing Strategy TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		ITIS 5401 [0.25]		
TOMS 5301 [0.25] Modeling Business Decisions TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		MGMT 5100 [0.5]		
TOMS 5302 [0.25] Operations Management STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		MKTG 5200 [0.5]	Marketing Strategy	
STGY 5900 [0.5] Corporate and Business Strategy 2. 1.75 credits in required 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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		TOMS 5301 [0.25]	Modeling Business Decisions	
2. 1.75 credits in required concentration courses: 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 concentration from: 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 4. 1.0 credit in M.B.A. elective courses 1.0 5. 1.0 credit in: 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.)		TOMS 5302 [0.25]	Operations Management	
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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 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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)	2.	1.75 credits in req	uired concentration courses:	1.75
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FINA 5521 [0.25] Financial Management Concentration Integration 3. 0.5 credit in elective concentration from: 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 4. 1.0 credit in M.B.A. elective courses 1.0 5. 1.0 credit in: 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.)		FINA 5512 [0.25]	Valuation	
Concentration Integration 3. 0.5 credit in elective concentration from: 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 4. 1.0 credit in M.B.A. elective courses 1.0 5. 1.0 credit in: 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.)		FINA 5513 [0.25]	Mergers and Acquisitions	
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 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		FINA 5521 [0.25]	——————————————————————————————————————	
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Policy ECON 5608 [0.5] Monetary Economics and Financial Intermediation 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		ECON 5058 [0.5]	•	
Intermediation 4. 1.0 credit in M.B.A. elective courses 1.0 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.)		ECON 5602 [0.5]		
5. 1.0 credit in: 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.)		ECON 5608 [0.5]	,	
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.)	4.	1.0 credit in M.B.A	a. elective courses	1.0
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.)	5.	1.0 credit in:		1.0
		BUSI 5999 [1.0]	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	
	To	tal Credits	r - ,	10.0

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.

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

Academic 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.

Admission Requirements

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.

Program Requirements

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:

Ph.D. Economics (11.5 credits)

1. 4.5 credits in: 4.5

ECON 6019	[0.5]	Mathematical Foundations for Economic Theory	
ECON 6020	[0.5]	Economic Theory: Microeconomics	
ECON 6021	[0.5]	Economic Theory: Macroeconomics	
ECON 6027	[0.5]	Econometrics II	
ECON 6900	[0.5]	Comprehensive Examination in Microeconomic Theory	
ECON 6902	[0.5]	Comprehensive Examination in Macroeconomic Theory	
ECON 6905	[0.5]	Comprehensive Examination in Primary Field	
ECON 6907	[0.5]	Thesis Workshop I	
ECON 6908	[0.5]	Thesis Workshop II	
2. 2.0 credits	in ECO	N electives	2.0
3. 5.0 credits	in:		5.0
ECON 6909	[5.0]	Ph.D. Thesis	
Total Credits			11.5

Students are also required to do course work in two of eight fields of specialization leading to a field comprehensive examination and the writing of a thesis. To fulfill this requirement, students must pass, within twenty-four months of beginning full-time study, at least two of the three courses associated with each of two chosen fields as well as a comprehensive examination in one of them (ECON 6905).

The courses in the eight fields of specialization are:

Econometrics

Econometrics	
ECON 5712 [0.5]	Micro-Econometrics
ECON 5713 [0.5]	Time-Series Econometrics
ECON 6714 [0.5]	Advanced Topics in Econometrics
Economic Developm	ent
ECON 5500 [0.5]	Theory of Economic Development
ECON 5504 [0.5]	Economic Development: Domestic Aspects
ECON 5505 [0.5]	Economic Development: International Aspects
Economics of the En	vironment
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	on
ECON 5301 [0.5]	Industrial Organization I
ECON 5303 [0.5]	Industrial Organization II
ECON 5304 [0.5]	Topics in Industrial Organization
International Econon	nics
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
	Public Economics: Expenditures Public Economics: Taxation

Comprehensive Examinations

Theory: Each student will register in ECON 6900 and ECON 6902 in order to write the comprehensive examinations in microeconomic theory and macroeconomic theory. Both of these examinations must be successfully completed within twelve months of beginning full-time study. Students who fail to meet this requirement will normally be withdrawn from the Ph.D. program.

Primary Field: Each student will register in ECON 6905 in order to write a comprehensive examination in his or her chosen primary field. This examination must be successfully completed within twenty-four months of beginning full-time study. Students who fail to meet this requirement will normally be withdrawn from the Ph.D. program.

Although not compulsory, a candidate may be required by an examining committee to sit an oral examination.

Seminar Attendance

Students who have completed the comprehensive examinations in microeconomic and macroeconomic theory will be required to attend a minimum of eight departmental seminars in economics during each academic year until they have submitted their thesis to the Faculty of Graduate and Postdoctoral Affairs.

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 6907), a research proposal for the thesis will be presented for evaluation by at least three faculty members. In the second (ECON 6908), a substantial portion of the research for the thesis will have been completed and will be presented and 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 four 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 eight calendar years, as set out in the General Regulations section of this Calendar.

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. 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 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) Theory of Economic Development

Theoretical approaches of the economic development literature in relation to the historical, economic, environmental, social, and political dimensions of the development process.

ECON 5504 [0.5 credit] (ECO 6171, ECO 6571) Economic Development: Domestic Aspects

Major domestic problems of economic development. Topics may include employment, income distribution, choice of technology, sectoral allocation of resources, human resource development, and domestic environmental issues.

ECON 5505 [0.5 credit] (ECO 6172, ECO 6572) Economic Development: International Aspects

Key problems of international economic development such as trade in primary commodities and manufactures, financial flows and debt, the role of multinational corporations, the transfer of technology, and the international dimensions of environmental issues as they relate to developing countries.

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 theory, policy recommendations, and empirical study. Course material challenges traditional approaches by examining such topics as the endogeneity of money, the role of credit, financial instability, the circuit approach, flow-of-funds analysis, sectoral stock-flow coherence, and functional finance.

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 nonrenewable 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.

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. Prerequisite(s): permission of the Department.

ECON 5909 [1.5 credit] M.A. Thesis

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. Prerequisite(s): ECON 5020 (or equivalent) and ECON 5021 (or equivalent), or permission of the Department.

ECON 6020 [0.5 credit] (ECO 7922) Economic Theory: Microeconomics

Advanced graduate-level microeconomic theory, including topics such as game theory, externalities and public goods, general equilibrium, and welfare.

Precludes additional credit for ECON 6000 (no longer

offered).

Prerequisite(s): ECON 5020 (or equivalent) and ECON 6019.

ECON 6021 [0.5 credit] (ECO 7923) Economic Theory: Macroeconomics

Advanced graduate-level macroeconomic theory with particular focus on dynamic general equilibrium models. Exposition of the main theoretical concepts and exploration of the basic structure underlying these models. Application to the study of household consumption decisions, firm investment decisions, and economic growth.

Precludes additional credit for ECON 6001 (no longer offered) and ECON 6002 (no longer offered). Prerequisite(s): ECON 5021 (or equivalent) and ECON 6019.

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.

Precludes additional credit for ECON 5701 (no longer offered) and ECON 6005 (no longer offered).

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

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 6900 [0.5 credit] (ECO 7990) Comprehensive Examination in Microeconomic Theory

ECON 6902 [0.5 credit] (ECO 7991)
Comprehensive Examination in Macroeconomic Theory

ECON 6903 [0.0 credit] **Seminar Attendance**

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 6905 [0.5 credit] (ECO 9990) **Comprehensive Examination in Primary Field**

ECON 6907 [0.5 credit] (ECO 7002) Thesis Workshop I

ECON 6908 [0.5 credit] (ECO 7004) Thesis Workshop II

ECON 6909 [5.0 credits] (ECO 9999) Ph.D. Thesis