Climate Change (Collaborative Program)

This section presents the requirements for programs in:

- M.A. Anthropology with Collaborative Specialization in Climate Change
- M. Architecture 2-year stream with Collaborative Specialization in Climate Change
- M.A.Sc. Civil Engineering with Collaborative Specialization in Climate Change
- M.Eng. Civil Engineering with Collaborative Specialization in Climate Change
- M.A. Communication with Collaborative Specialization in Climate Change
- M.A. Economics with Collaborative Specialization in Climate Change
- M.A. English with Collaborative Specialization in Climate Change
- M.A. Geography with Collaborative Specialization in Climate Change
- M.Sc. Geography with Collaborative Specialization in Climate Change
- M.A. History with Collaborative Specialization in Climate Change
- M.A. International Affairs with Collaborative Specialization in Climate Change
- M.A. Migration and Diaspora Studies with Collaborative Specialization in Climate Change
- M.A. Psychology with Collaborative Specialization in Climate Change
- M.A. Sociology with Collaborative Specialization in Climate Change
- M.A.Sc. Aerospace Engineering with Collaborative Specialization in Climate Change
- M.A.Sc. Electrical and Computer Engineering with Collaborative Specialization in Climate Change
- M.A.Sc. Environmental Engineering with Collaborative Specialization in Climate Change
- M.A.Sc. Materials Engineering with Collaborative Specialization in Climate Change
- M.A.Sc. Mechanical Engineering with Collaborative Specialization in Climate Change
- M.B.A. with Collaborative Specialization in Climate Change
- M.Eng. Electrical and Computer Engineering with Collaborative Specialization in Climate Change
- M.Eng. Environmental Engineering with Collaborative Specialization in Climate Change
- M.A. Political Economy with Collaborative Specialization in Climate Change
- Master of Public Policy and Administration with Collaborative Specialization in Climate Change

- Master of Public Policy Sustainable Energy and the Environment with Collaborative Specialization in Climate Change
- M.Eng. Sustainable Energy with Collaborative Specialization in Climate Change
- M.Sc. Management with Collaborative Specialization in Climate Change

Program Requirements

M.A. Anthropology with Collaborative Specialization in Climate Change (5.0 credits)

Change (5.0 cred	its)	
Requirements - Thes	is pathway:	
1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:		
CLIM 5800 [0.0]	Climate Seminar Series	
3. 1.0 credit in:		1.0
ANTH 5401 [0.5]	Theory in Anthropology	
ANTH 5402 [0.5]	Research in Anthropology	
4. 1.0 credit in appro-	ved electives, chosen in consultation sor	1.0
5. 2.0 credits in:		2.0
ANTH 5909 [2.0]	M.A. Thesis (in the specialization)	
Total Credits		5.0
Descripements Desc	avala access mothers as	
Requirements - Rese 1. 1.0 credit in:	arch essay paniway:	1.0
	Climate Callaboration	1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:	Olimenta Caminas Carias	
CLIM 5800 [0.0]	Climate Seminar Series	1.0
3. 1.0 credit in:	The annuis Anthonoral and	1.0
ANTH 5401 [0.5]	Theory in Anthropology	
ANTH 5402 [0.5]	Research in Anthropology	0.0
with the student's advis	ved electives, chosen in consultation sor	2.0
5. 1.0 credit in:		1.0
ANTH 5908 [1.0]	M.A. Research Essay (in the specialization)	
Total Credits		5.0
Requirements - Cour	sework nathway:	
1. 1.0 credit in:	Sework patriway.	1.0
CLIM 5000 [1.0]	Climate Collaboration	1.0
2. 0.0 credit in:	Olimate Collaboration	0.0
CLIM 5800 [0.0]	Climate Seminar Series	0.0
3. 1.0 credit in:	Climate Serimai Series	1.0
	Theory in Anthropology	1.0
ANTH 5402 [0.5]	Research in Anthropology	
	O-level ANTH course with sufficient	0.5
climate change conten	t, with departmental approval	
2.5 credits in appropriate consultation with the street	oved electives, chosen in tudent's advisor	2.5
Total Credits		5.0

M. Architecture 2-year stream with Collaborative Specialization in Climate Change (8.0 credits)

Note: Please consult the School regarding registration sequence.

Requirements:

Total	Credits		8.0
6. 0.5 highe		electives at the 4000-level or	0.5
Th	nesis topic must be	e related to climate change.	
AF	RCH 5555 [2.0]	Architecture Thesis	
5. 2.0	credits in:		2.0
AF	RCH 5115 [1.0]	Graduate Studio Abroad: Agency + Justice	
AF	RCH 5114 [1.0]	Comprehensive Studio: Climate + Integration	
4. 2.0	credits in studi	o:	2.0
AF	RCH 5552 [0.5]	Design Thesis Preparation	
AF	RCH 5551 [0.5]	Professional Practice	
AF	RCH 5444 [0.5]	Comprehensive Studio Workshop	
AF	RCH 5333 [0.5]	Selected Topics in Architectural Theory	
AF	RCH 5224 [0.5]	Advanced Building Systems	
3. 2.5	credits in core:		2.5
CL	IM 5800 [0.0]	Climate Seminar Series	
2. 0.0	credit in:		
CL	_IM 5000 [1.0]	Climate Collaboration	
1. 1.0	credit in:		1.0

M. Architecture 3-year stream with Collaborative Specialization in Climate Change (15 credits)

Note: Please consult the School regarding registration sequence.

Requirements:

1. 1.0 cr	edit in:		1.0
CLIM	5000 [1.0]	Climate Collaboration	
2. 0.0 cr	edit in:		
CLIM	5800 [0.0]	Climate Seminar Series	
3. 6.0 cr	edits in core:	:	6.0
ARCH	1 5221 [0.5]	Ecological & Regulatory Systems	
ARCH	1 5222 [0.5]	Structures	
ARCH	1 5223 [1.0]	Assemblies and Environmental Systems	
ARCH	1 5224 [0.5]	Advanced Building Systems	
ARCH	1 5331 [0.5]	Modernism and Global Urbanism	
ARCH	1 5332 [0.5]	Contemporary Theories in Architecture	
ARCH	1 5333 [0.5]	Selected Topics in Architectural Theory	
ARCH	1 5441 [0.5]	Studio 1: Workshop	
ARCH	1 5444 [0.5]	Comprehensive Studio Workshop	
ARCH	1 5551 [0.5]	Professional Practice	
ARCH	1 5552 [0.5]	Design Thesis Preparation	
4. 5.0 cr	edits in studi	io:	5.0
ARCH	1 5111 [1.0]	Studio I: Land & Environment	
ARCH	1 5112 [1.0]	Studio II: Materiality + Adaptation	

Studio III: Urbanism + Society	
Comprehensive Studio: Climate + Integration	
Graduate Studio Abroad: Agency + Justice	
	2.0
Architecture Thesis (in the Specialization)	
electives at the 4000-level or	1.0
	15.0
gineering	
e Specialization in Climate	
lits)	
	1.0
Climate Collaboration	
	0.0
Climate Seminar Series	
	2.5
` ` `	2.0
Magtarla Caminar	
waster's Seminar	2.5
MAA Oo Thereis (in the	2.5
specialization)	
,	6.0
e Specialization in Climate	
lits)	
ect pathway:	
	1.0
Climate Collaboration	
Climate Seminar Series	
ses listed below (other courses may	4.0
,	
	1.0
Civil Engineering Project (in the specialization)	
.0 credit may be taken from the	
, CIVE 5200, CIVE 5305	
	6.0
sework pathway:	6.0
sework pathway:	
Sework pathway: Climate Collaboration	
Climate Collaboration	
Climate Collaboration Climate Seminar Series	1.0
Climate Collaboration Climate Seminar Series ses listed below (other courses may	6.01.04.0
Climate Collaboration Climate Seminar Series	1.0
Climate Collaboration Climate Seminar Series ses listed below (other courses may partmental approval)	1.0
Climate Collaboration Climate Seminar Series ses listed below (other courses may partmental approval) Atmospheric Aerosols	1.0
Climate Collaboration Climate Seminar Series ses listed below (other courses may partmental approval)	1.0
	Comprehensive Studio: Climate + Integration Graduate Studio Abroad: Agency + Justice Architecture Thesis (in the Specialization) electives at the 4000-level or gineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses listed below (other courses may partmental approval) Master's Seminar M.A.Sc. Thesis (in the specialization) 0.5 credit may be taken from the cyclve 5200, CIVE 5305 ineering re Specialization in Climate lits) ect pathway: Climate Collaboration Climate Seminar Series ses listed below (other courses may partmental approval)

	ENVE 5205 [0.5]	Sludge Treatment and Disposal		ECON 5507 [0.5]	Environmental Aspects of Economic Development	
	ENVJ 5908 [0.5]	Anaerobic Digestion		ECON 5803 [0.5]	Economics of Natural Resources	
	ENVJ 5212 [0.5]	Climate Change Impacts on Water Resources		ECON 5804 [0.5]	Economics of the Environment	
or	annroyed Chaoial Te					
	otal Credits	opics in the area of climate change	6.0	ECON 5805 [0.5]	Topics in Environmental and Resource Economics	
	.A. Communica	tion	0.0	or approved Special	al Topic in the area of Climate	
		e Specialization in Climate		ŭ	N at the 5000 level with sufficient	0.5
	hange (5.0 cred	-		Climate Change conte	ent (may be an additional course hosen in consultation with	0.0
Re	equirements - Rese	arch essay pathway:		Department of Econor		
1.	1.0 credit in:		1.0	Total Credits		4.0
	CLIM 5000 [1.0]	Climate Collaboration		Total Orealts		7.1
2.	0.0 credit in:			Requirements - Thes	sis pathway (4.0 credits)	
	CLIM 5800 [0.0]	Climate Seminar Series		1. 1.0 credit in:		1.0
3.	1.5 credits in:		1.5	CLIM 5000 [1.0]	Climate Collaboration	
	COMS 5101 [1.0]	Foundations of Communication		2. 0.0 credit in:		
		Studies		CLIM 5800 [0.0]	Climate Seminar Series	
	COMS 5605 [0.5]	Approaches to Communication		3. 1.5 credits in:		1.5
		Research		ECON 5020 [0.5]	Microeconomic Theory	
4.	1.0 credit in:		1.0	ECON 5021 [0.5]	Macroeconomic Theory	
	COMS 5908 [1.0]	Research Essay (in the		ECON 5027 [0.5]	Econometrics I	
		specialization)		4. 1.5 credits in:		1.5
5.	1.5 credits from th	e list of optional courses	1.5	ECON 5909 [1.5]	M.A. Thesis (in the specialization)	
To	otal Credits		5.0	Total Credits	,	4.0
Re	equirements - Thes	is pathway:		M.A. English		
1.	1.0 credit in:		1.0		vo Specialization in Climate	
	CLIM 5000 [1.0]	Climate Collaboration			ve Specialization in Climate	
2.	0.0 credit in:			Change (4.5 cred	•	
	CLIM 5800 [0.0]	Climate Seminar Series		Requirements - Cou	rsework pathway (4.5 credits)	
3.	1.5 credits in:		1.5	1. 1.0 credit in:		1.0
	COMS 5101 [1.0]	Foundations of Communication		CLIM 5000 [1.0]	Climate Collaboration	
		Studies		2. 0.0 credit in:		
	COMS 5605 [0.5]	Approaches to Communication		CLIM 5800 [0.0]	Climate Seminar Series	0.1
4	2.0 avadita in	Research	2.0	3. 2.5 credits in ENG ENGL 5908 and ENG	GL at the 5000-level (excluding	2.5
4.	2.0 credits in:	NA A Theorie (in the constitution)	2.0		duate seminar with sufficient Climate	0.5
	COMS 5909 [2.0]	M.A. Thesis (in the specialization)	0.5	_	IGL or another department, as	0.0
_		list of optional courses	0.5		dinator of the Climate Change	
To	otal Credits		5.0	Specialization.	· ·	
М	.A. Economics			5. 0.5 credit in:		0.5
		e Specialization in Climate		ENGL 5005 [0.5]	M.A. Seminar	
	hange (4.0 cred	-		Total Credits		4.5
Re	equirements - Cour	sework pathway (4.0 credits)		Requirements - Res	earch essay pathway (4.5 credits)	
1.	1.0 credit in:		1.0	1. 1.0 credit in:		1.0
	CLIM 5000 [1.0]	Climate Collaboration		CLIM 5000 [1.0]	Climate Collaboration	
2.	0.0 credit in:			2. 0.0 credit in:		
	CLIM 5800 [0.0]	Climate Seminar Series		CLIM 5800 [0.0]	Climate Seminar Series	
3.	1.5 credit in:		1.5	3. 0.5 credit in:	Ca.c Coa. Cocc	0.5
	ECON 5020 [0.5]	Microeconomic Theory		ENGL 5005 [0.5]	M.A. Seminar	0.0
	ECON 5021 [0.5]	Macroeconomic Theory			GL at the 5000 level (excluding	2.0
	ECON 5027 [0.5]	Econometrics I		ENGL 5908)	SE at the 5000 level (excluding	۷.(
1	0.5 credit in:	Location i	0.5	5. 1.0 credit in:		1.0
↔.	ECON 5029 [0.5]	Methods of Economic Research	0.0	ENGL 5908 [1.0]	Research Essay (in the	1.0
	LCON 3028 [0.3]	(including a research paper on a		2.1.02 0000 [1.0]	specialization)	
_	A = 11:1	Climate Change-related topic)	0 =	Total Credits		4.5
5.	0.5 credit in:		0.5			

	sis pathway (4.5 credits)		•	GEOG or GEOM at the 4000 level,	
1. 1.0 credit in:		1.0	with departmental	арргочаг	2.0
CLIM 5000 [1.0]	Climate Collaboration		5. 3.0 credits in:	MO TI COURT	3.0
2. 0.0 credit in:			GEOG 5906 [3.0]	M.Sc. Thesis (in the specialization and including oral examination of	
CLIM 5800 [0.0]	Climate Seminar Series	1.0		the thesis)	
ENGL 5909)	at the 5000-level (excluding	1.0		ormal requirements, M.Sc. students I the DGES Departmental Seminar	
4. 0.5 credit in:		0.5	series, and the Gradu	·	
ENGL 5005 [0.5]	M.A. Seminar		Total Credits		5.5
5. 2.0 credits in:		2.0	M A History		
ENGL 5909 [2.0] Total Credits	M.A. Thesis (in the specialization)	4.5		ve Specialization in Climate	
M.A. Geography			Change (4.5 cred	•	
	ve Specialization in Climate			earch essay pathway (4.5 credits):	
Change (5.5 cred	=		1. 1.0 credit in:		1.0
Requirements:	,		CLIM 5000 [1.0]	Climate Collaboration	
1. 1.0 credit in:		1.0	2. 0.0 credit in:		
CLIM 5000 [1.0]	Climate Collaboration	1.0	CLIM 5800 [0.0]	Climate Seminar Series	
2. 0.0 credit in:	Climate Collaboration	0.0	3. 0.5 credit in:		0.5
CLIM 5800 [0.0]	Climate Seminar Series	0.0	HIST 5003 [0.5]	Historical Theory and Method	
3. 1.0 credit in:	Clinate Seriinal Series	1.0		T at the graduate level of which only	1.5
GEOG 5000 [0.5]	Approaches to Geographical	1.0	-	en in a designated public history ental permission, up to 0.5 credit of	
OLOG 3000 [0.3]	Inquiry			Il content may be taken from another	
GEOG 5905 [0.5]	Masters Research Workshop			ersity, at the University of Ottawa, or	
4. 2.5 credits in:	·	2.5	at another accredited	institution.	
GEOG 5909 [2.5]	M.A. Thesis (in the specialization		5. 0.5 credit in:		0.5
	and including oral examination of		HIST 5900 [0.5]	Directed Research	
	the thesis)		6. 1.0 credit in:		1.0
	ved graduate-level electives	1.0	HIST 5908 [1.0]	M.A. Research Essay (in the	
required to attend the	rmal requirements, MA students are Departmental Seminar series, and		Total Credits	specialization)	4.5
the Graduate Field Ca	iliip.		Requirements - thes	sis pathway (4.5 credits):	
Total Credits		5.5	1. 1.0 credit in:		1.0
M.Sc. Geography	/		CLIM 5000 [1.0]	Climate Collaboration	
with Collaborativ	e Specialization in Climate		2. 0.0 credit in:		
Change (5.5 cred	lits)		CLIM 5800 [0.0]	Climate Seminar Series	
Requirements:			3. 0.5 credit in:		0.5
1. 1.0 credit in:		1.0	HIST 5003 [0.5]	Historical Theory and Method	
CLIM 5000 [1.0]	Climate Collaboration		4. 1.0 credit in HIST	at the graduate level of which only	1.0
2. 0.0 credit in:		0.0		en in a designated public history	
CLIM 5800 [0.0]	Climate Seminar Series			ental permission, up to 0.5 credit of	
3. 1.0 credit in:		1.0		Il content may be taken from another ersity, at the University of Ottawa, or	
GEOG 5001 [0.5]	Modeling Environmental Systems		at another accredited		
GEOG 5905 [0.5]	Masters Research Workshop		5. 2.0 credits in:		2.0
	cal Geography selected from:	0.5	HIST 5909 [2.0]	M.A. Thesis (in the specialization)	
GEOG 5002 [0.5]	Quantitative Analysis for Geographical Research		Total Credits	, , , , , , , , , , , , , , , , , , , ,	4.5
GEOG 5103 [0.5]	Hydrologic Principles and Methods		M.A. Internation		
GEOG 5104 [0.5]	Advanced Biogeography			ve Specialization in Climate	
GEOG 5107 [0.5]	Field Study and Methodological Research		Change (5.0 cred	dits) sis Pathway (5.0 credits)	
GEOG 5303 [0.5]	Geocryology		1. 1.0 credit in:		1.0
GEOG 5307 [0.5]	Soil Resources		CLIM 5000 [1.0]	Climate Collaboration	1.0
GEOG 5803 [0.5]	Seminar in Geomatics		2. 0.0 credit in:	Side Solidbordion	0.0
			v.v o. cuit iii.		0.0
GEOG 5804 [0.5]	Geographic Information Systems		CLIM 5800 to 01	Climate Seminar Series	
GEOG 5804 [0.5] GEOG 5900 [0.5]	Geographic Information Systems Graduate Tutorial		CLIM 5800 [0.0] 3. 1.5 credits in:	Climate Seminar Series	1.5

	INAF 5015 [0.5]	Research Design and Methods for International Affairs	
	INAF 5016 [0.5]	Statistical Analysis for International Affairs	
	INAF 5017 [0.25]	International Policymaking in Canada: Structure and Process	
	INAF 5018 [0.25]	Law and International Affairs	
		mics, successfully completed by the	0.5
end		n, from: (see Note 1 below) International Aspects of Economic	0.0
		Development	
	INAF 5205 [0.5]	Economics of Conflict	
	INAF 5214 [0.5]	Economics for Defence and Security	
	INAF 5221 [0.5]	Economics of Security and Intelligence	
	INAF 5308 [0.5]	International Trade: Theory and Policy	
	INAF 5309 [0.5]	International Finance: Theory and Policy	
	INAF 5600 [0.5]	The Economics of Human Development	
	INAF 5703 [0.5]	International Public Economics	
4.	2.0 credits in:		2.0
	INAF 5909 [2.0]	M.A. Thesis (in the Specialization)	
5. 8	Successful completi	on of second language proficiency	
exa	amination (see Note	2 below)	
Tot	tal Credits		5.0
			0.0
Re	quirements - Rese	arch Essay pathway (5.0 credits)	
1.	1.0 credit in:		1.0
	CLIM 5000 [1.0]	Climate Collaboration	
2.	0.0 credit in:		0.0
	CLIM 5800 [0.0]	Climate Seminar Series	
3.	4 = 114 1		
	1.5 credit in:		1.5
	1.5 credit in: INAF 5015 [0.5]	Research Design and Methods for International Affairs	1.5
		=	1.5
	INAF 5015 [0.5]	International Affairs Statistical Analysis for International	1.5
	INAF 5015 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in	1.5
4.	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the	0.5
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econod of the second term	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econod of the second term	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo d of the second term	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo d of the second term INAF 5009 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development Economics of Conflict Economics for Defence and	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo d of the second term INAF 5009 [0.5] INAF 5205 [0.5] INAF 5214 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development Economics of Conflict Economics for Defence and Security Economics of Security and	
4. ena	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo d of the second term INAF 5009 [0.5] INAF 5205 [0.5] INAF 5214 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development Economics of Conflict Economics for Defence and Security Economics of Security and Intelligence International Trade: Theory and	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] 0.5 credit in econo d of the second term INAF 5009 [0.5] INAF 5205 [0.5] INAF 5214 [0.5] INAF 5221 [0.5] INAF 5308 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development Economics of Conflict Economics for Defence and Security Economics of Security and Intelligence International Trade: Theory and Policy International Finance: Theory and	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] INAF 5018 [0.25] INAF 5009 [0.5] INAF 5205 [0.5] INAF 5214 [0.5] INAF 5221 [0.5] INAF 5308 [0.5] INAF 5309 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development Economics of Conflict Economics for Defence and Security Economics of Security and Intelligence International Trade: Theory and Policy International Finance: Theory and Policy The Economics of Human	
4. end	INAF 5015 [0.5] INAF 5016 [0.5] INAF 5017 [0.25] INAF 5018 [0.25] INAF 5018 [0.25] INAF 5009 [0.5] INAF 5205 [0.5] INAF 5214 [0.5] INAF 5221 [0.5] INAF 5308 [0.5] INAF 5309 [0.5] INAF 5309 [0.5]	International Affairs Statistical Analysis for International Affairs International Policymaking in Canada: Structure and Process Law and International Affairs mics, successfully completed by the n, from: (see Note 1 below) International Aspects of Economic Development Economics of Conflict Economics for Defence and Security Economics of Security and Intelligence International Trade: Theory and Policy International Finance: Theory and Policy The Economics of Human Development	

4.	1.0 credits in:		1.0
		e courses (See Note 3 below)	
5.		ion of second language proficiency	
	amination (see Note	0 0 1	
То	tal Credits		5.0
Re	equirements - Cour	sework pathway (5.0 credits)	
	1.0 credit in:	content paintag (ore creams)	1.0
••	CLIM 5000 [1.0]	Climate Collaboration	1.0
2	0.0 credit in:	Cimilato Conaboration	0.0
	CLIM 5800 [0.0]	Climate Seminar Series	0.0
3	1.0 credit in:	Similate Seminar Series	1.0
J.	INAF 5016 [0.5]	Statistical Analysis for International	1.0
	11VAI 3010 [0.3]	Affairs	
	INAF 5017 [0.25]	International Policymaking in Canada: Structure and Process	
	INAF 5018 [0.25]	Law and International Affairs	
4.	0.5 credit in econo	mics, successfully completed by the	0.5
en	d of the second tern	n, from: (see Note 1 below)	
	INAF 5009 [0.5]	International Aspects of Economic Development	
	INAF 5205 [0.5]	Economics of Conflict	
	INAF 5214 [0.5]	Economics for Defence and Security	
	INAF 5221 [0.5]	Economics of Security and Intelligence	
	INAF 5308 [0.5]	International Trade: Theory and Policy	
	INAF 5309 [0.5]	International Finance: Theory and Policy	
	INAF 5600 [0.5]	The Economics of Human Development	
	INAF 5703 [0.5]	International Public Economics	
5.	0.5 credit from:		0.5
	INAF 5701 [0.5]	Global Environmental Change: Human Implications	
	INAF 5702 [0.5]	International Environmental Affairs	
		[0.5] with significant climate change	
	•	by the MA Associate Director and	
	Coordinator of the C	Climate Change Specialization	
	2.0 credits in Field (low)	and/or Elective courses (see Note 3	2.0
	Successful completi amination (see Note	ion of second language proficiency 2 below)	
_	otal Credits		5.0

Notes:

- All students must complete the 0.5 credit economics course for their designated field, or an approved alternate economics course. For students in the IEP field both INAF 5308 and INAF 5309, or approved equivalent, must be completed in order to receive the field designation.
- Students must successfully complete an examination in second language proficiency administered by Carleton University's School of Linguistics and Language Studies, or meet the equivalent standard as determined by the School of Linguistics and Language Studies.
- 3. For elective courses, 1.5 credits of the total required 5.0 credits may be selected from courses offered in

other departments, with a maximum of 1.0 credit from a single department and a maximum of 1.0 credit selected from fourth year undergraduate courses. Any course not identified as an INAF 5000-level course must be approved by the M.A. Program Supervisor.

M.A. Migration and Diaspora Studies with Collaborative Specialization in Climate Change (5.0 credits)

Change (5.0 Cred	•	
Requirements - Thes	sis Patriway:	4.0
1.0 credit in:	Climata Callabaration	1.0
CLIM 5000 [1.0]	Climate Collaboration	0.0
2. 0.0 credit in:	Oliverata Operata an Opera	0.0
CLIM 5800 [0.0]	Climate Seminar Series	4.0
3. 1.0 credit in:	MA Ocas Ocasis and Missatism and	1.0
MGDS 5001 [0.5]	MA Core Seminar: Migration and Diaspora Studies	
MGDS 5003 [0.5]	Research Seminar in Migration and Diaspora Studies	
electives (see below).	gration and Diaspora Studies Up to 1.0 credit in Migration and sticum placements (MGDS 5101) requirement.	1.0
5. 2.0 credits in:		2.0
MGDS 5909 [2.0]	M.A. Thesis (in the specialization)	
Total Credits		5.0
Poquiromento Poo	parch Facay Bathway	
1. 1.0 credit in:	earch Essay Pathway:	1.0
CLIM 5000 [1.0]	Climate Collaboration	1.0
2. 0.0 credit in:	Climate Collaboration	0.0
	Climata Caminar Carias	0.0
CLIM 5800 [0.0]	Climate Seminar Series	4.0
3. 1.0 credit in:	MA Core Coreinan Missation and	1.0
MGDS 5001 [0.5]	MA Core Seminar: Migration and Diaspora Studies	
MGDS 5003 [0.5]	Research Seminar in Migration and Diaspora Studies	
4. 0.5 credit in MGDS MGDS 5101.	S at the 5000 level. May not include	0.5
electives (see below).	Aligration and Diaspora Studies Up to 1.0 credit in Migration and eticum placements (MGDS 5101) requirement.	1.5
6. 1.0 credit in:		1.0
MGDS 5908 [1.0]	Research Essay (in the specialization)	
Total Credits		5.0
Poquiromente Com	reawork Pathway	
Requirements - Cour	ISEWORK Palliway	1.0
1. 1.0 credit in:	Climata Callabaratica	1.0
CLIM 5000 [1.0]	Climate Collaboration	0.0
2. 0.0 credit in:	Climata Caminan Caria	0.0
CLIM 5800 [0.0]	Climate Seminar Series	4.0
3. 1.0 credit in:	MA Occas Occasiona Affi	1.0
MGDS 5001 [0.5]	MA Core Seminar: Migration and Diaspora Studies	
MGDS 5003 [0.5]	Research Seminar in Migration and Diaspora Studies	
4. 0.5 credit in MGDS 5101.	S at the 5000 level. May not include	0.5

electives (see below).	Up to 1.0 credit in Migration and citicum placements (MGDS 5101) requirement.	2.0
9	duate course with sufficient climate proved by the Coordinator of the ialization.	0.5
Total Credits		5.0
Change (5.5 cred	e Specialization in Climate	
Requirements:		4.0
1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:	Olimenta Orașin au Orașin	
CLIM 5800 [0.0]	Climate Seminar Series	4.0
(recommended to com the program)	5 5410 and PSYC 5411 nplete during the first two terms of	1.0
4. 0.5 credit from Pro	ofessional Development courses:	0.5
PSYC 5002 [0.5]	Ethics in Psychology	
PSYC 5003 [0.5]	Open Science and Methodological Improvements	
PSYC 5004 [0.5]	Knowledge Mobilization	
PSYC 5802 [0.5]	Special Topics: Professional Development	
PSYC 5903 [0.5]	Practicum in Psychology	
	c at the 5000-level, excluding ment courses listed above, and tistics courses	0.5
PSYC 5906 [0.0]	Pro-Seminar in Psychology	
7. 2.5 credits in:		2.5
PSYC 5909 [2.5]	M.A. Thesis (in the specialization)	
Total Credits	, ,	5.5
M.A. Sociology with Collaborativ Change (5.0 cred	re Specialization in Climate lits)	
Requirements - Thes	sis pathway:	
1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in:		
CLIM 5800 [0.0]	Climate Seminar Series	
3. 1.0 credit in:		1.0
SOCI 5005 [0.5]	Recurring Debates in Social Thought	
SOCI 5809 [0.5]	The Logic of the Research Process	
4. 1.0 credit in appro with the student's advi	ved electives, chosen in consultation sor	1.0
5. 2.0 credits in:		2.0
SOCI 5909 [2.0]	M.A. Thesis (in the specialization)	
Total Credits		5.0
Requirements - Rese	earch essay pathway:	
1. 1.0 credit in:		1.0
CLIM 5000 [1.0]	Climate Collaboration	
2. 0.0 credit in: CLIM 5800 [0.0]	Climate Seminar Series	

3.	1.0 credit in:		1.0		an 0.5 credit may be taken from	
	SOCI 5005 [0.5]	Recurring Debates in Social Thought		ENVE 5201, ENVE 5	5008, ENVE 5101, ENVE 5200, 301	
	SOCI 5809 [0.5]	The Logic of the Research Process		Total Credits		5.0
	2.0 credit in appro th the student's advi	ved electives, chosen in consultation isor	2.0	M.A.Sc. Material	s Engineering ve Specialization in Climate	
5.	1.0 credit in:		1.0	Change (5.0 cred	-	
	SOCI 5908 [1.0]	M.A. Research Essay (in the		• .	arto)	
_		specialization)		Requirements: 1. 1.0 credit in:		1.0
To	otal Credits		5.0	CLIM 5000 [1.0]	Climate Collaboration	1.0
M	.A.Sc. Aerospa	ce Engineering		2. 0.0 credit in:	Cilitate Collaboration	
Wi	ith Collaborativ	e Specialization in Climate		CLIM 5800 [0.0]	Climate Seminar Series	
CI	hange (5.0 cred	lits)			rses offered by the OCIMAE.	1.5
Re	equirements:				e Mechanical and Aerospace	1.0
1.	1.0 credit in:		1.0	Engineering semina	-	
	CLIM 5000 [1.0]	Climate Collaboration		5. 2.5 credits in:		2.5
2.	0.0 credit in:			MECH 5909 [2.5]	M.A.Sc. Thesis (in the	
	CLIM 5800 [0.0]	Climate Seminar Series			specialization)	
3.	1.5 credits in cour	ses offered by the OCIMAE.	1.5	Total Credits		5.0
4.	Participation in the	e Mechanical and Aerospace		M.A.Sc. Mechan	ical Enginocring	
Er	ngineering semina	series			ve Specialization in Climate	
5.	2.5 credits in:		2.5	Change (5.0 cred	-	
	MECH 5909 [2.5]	M.A.Sc. Thesis (in the		• .	aits)	
		specialization)		Requirements:		4.0
	otal Credits		5.0	1. 1.0 credit in:	Oliverate On Halbarration	1.0
То	.A.Sc. Electrica	I and Computer Engineering		CLIM 5000 [1.0]	Climate Collaboration	
		re Specialization in Climate		2. 0.0 credit in:	Olimenta Cominan Coria	
M	hange (5.0 cred	-		CLIM 5800 [0.0]	Climate Seminar Series	
M wi		IIIS)		2. 4 E avadita in sou	roos offered by the OCIMAE	1 5
M wi		iits)			rses offered by the OCIMAE.	1.5
M wi CI	equirements:	iits)	1.0	4. Participation in th	e Mechanical and Aerospace	1.5
M wi CI	equirements:	·	1.0	4. Participation in th Engineering semina	e Mechanical and Aerospace	
M. Wi CI Re	equirements: 1.0 credit in: CLIM 5000 [1.0]	Climate Collaboration	1.0	4. Participation in th	e Mechanical and Aerospace r series	2.5
M. Wi CI Re	equirements:	·		4. Participation in th Engineering semina 5. 2.5 credits in:	e Mechanical and Aerospace	
Mi Wi CI Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in:	Climate Collaboration Climate Seminar Series		4. Participation in th Engineering semina 5. 2.5 credits in:	e Mechanical and Aerospace r series M.A.Sc. Thesis (in the	
M Wi CI Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0]	Climate Collaboration Climate Seminar Series	0.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits	e Mechanical and Aerospace r series M.A.Sc. Thesis (in the	2.5
M Wi CI Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour	Climate Collaboration Climate Seminar Series ses	0.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A.	e Mechanical and Aerospace r series M.A.Sc. Thesis (in the specialization)	2.5
M Wi CI Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in:	Climate Collaboration Climate Seminar Series	0.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaboration	M.A.Sc. Thesis (in the specialization)	2.5
M. Wi CI Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in:	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of	0.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits)	M.A.Sc. Thesis (in the specialization)	2.5
M. wi CI Re 1. 2.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5]	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change)	0.0 1.5 2.5	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits)	M.A.Sc. Thesis (in the specialization)	2.5 5.0
Mi Wi CI Re 1. 2.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environr	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering	0.0 1.5 2.5	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) Requirements: 1. 1.0 credit in	M.A.Sc. Thesis (in the specialization) ve Specialization in Climate dits)	2.5
Mi CI Re 1. 2. 3. 4.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environrith Collaborativ	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate	0.0 1.5 2.5	4. Participation in the Engineering seminals. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaboration Change (8.5 credits) Requirements: 1. 1.0 credit in CLIM 5000 [1.0]	M.A.Sc. Thesis (in the specialization)	2.5 5.0
Mi CI Re 1. 2. 3. 4.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environrith Collaborative hange (5.0 credits)	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate	0.0 1.5 2.5	4. Participation in the Engineering seminal 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) Requirements: 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in:	M.A.Sc. Thesis (in the specialization) ve Specialization in Climate dits)	2.5 5.0
Mi Wi CI Re 1. 3. 4. Wi CI	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environments: capacinements:	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate	0.0 1.5 2.5 5.0	4. Participation in the Engineering seminal 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) Requirements: 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0]	M.A.Sc. Thesis (in the specialization) ve Specialization in Climate dits)	5.0
Mi Wi CI Re 1. 3. 4. Wi CI	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environr ith Collaborativ hange (5.0 credits) equirements: 1.0 credit in:	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits)	0.0 1.5 2.5	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits Requirements: 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0] 3. 0.25 credit in	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series	2.5 5.0
Mi CI Re 1. 2. 3. 4. To Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits .A.Sc. Environrith Collaborative hange (5.0 credits) equirements: 1.0 credit in: CLIM 5000 [1.0]	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate	0.0 1.5 2.5 5.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits Requirements: 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25]	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development	2.55 5.0 1.0
Mi CI Re 1. 2. 3. 4. To Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environrith Collaborative hange (5.0 credit in: CLIM 5000 [1.0] 0.0 credit in:	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration	0.0 1.5 2.5 5.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in elections	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series	5.0
Mi CI Re 1. 2. 3. 4. To CI Re 1.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] otal Credits A.Sc. Environt ith Collaborative hange (5.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0]	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series	0.0 1.5 2.5 5.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) Requirements: 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in elections having sufficient climical contents in the contents in t	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated	2.55 5.0 1.0
M. wi CI Re 1. 2. 3. 4. To Ki CI Re 1. 2.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] Otal Credits A.Sc. Environt ith Collaborativ change (5.0 credit equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration	0.0 1.5 2.5 5.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) Requirements: 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in elections having sufficient climical contents in the contents in t	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the	2.55 5.0 1.0
M. wi CI Re 1. 2. 3. 4. To Wi CI Re 1. 2.	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] Otal Credits A.Sc. Environt ith Collaborativ change (5.0 credit equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses, with at least 0.5 credit from two y listed below outside the area of	0.0 1.5 2.5 5.0	4. Participation in the Engineering semina 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits in CLIM 5000 [1.0] 2. 0.0 credit in CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in election as having sufficient cleased school of Business of School of Business.	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the	2.55 5.0 1.0
M. wince CI and	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] Otal Credits A.Sc. Environt ith Collaborativ change (5.0 credit equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour ferent areas of stud	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses, with at least 0.5 credit from two y listed below outside the area of	0.0 1.5 2.5 5.0	4. Participation in the Engineering seminal 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits) 1. 1.0 credit in CLIM 5000 [1.0] 2. 0.0 credit in: CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in election as having sufficient cleased so school of Business of School of Business. 5. 4.25 credits in coole. 6. 1.0 credit in election elections.	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the relsewhere, with permission of the impulsory core courses	2.55 5.0 1.0 0.25 1.0 4.25 1.0
M. wince CI and	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] Otal Credits A.Sc. Environrith Collaborative hange (5.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in courferent areas of stud A, Sustainability and	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses, with at least 0.5 credit from two y listed below outside the area of d Climate Change Master's Seminar (participation	0.0 1.5 2.5 5.0	4. Participation in the Engineering seminal 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits in CLIM 5000 [1.0] 2. 0.0 credit in CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in election as having sufficient cledits in collaboration of Business of School of Business of School of Business of School of Credit in election in CLIM credit in election in climater in credit in climater in credit in climater in climater in credit in climater in credit in climater in c	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the relsewhere, with permission of the impulsory core courses ive courses	2.5 5.0 1.0 0.25 1.0
M. wince CI and	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] A.Sc. Environr ith Collaborative change (5.0 credit cequirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour ferent areas of stud A, Sustainability and 0.0 credit in:	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses, with at least 0.5 credit from two y listed below outside the area of d Climate Change Master's Seminar (participation in the graduate student seminar	0.0 1.5 2.5 5.0	4. Participation in the Engineering seminal 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits in CLIM 5000 [1.0] 2. 0.0 credit in CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in elections having sufficient clearly sufficient c	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the relsewhere, with permission of the impulsory core courses	2.55 5.0 1.0 0.25 1.0 4.25 1.0
M. wince the control of the control	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] Otal Credits A.Sc. Environr ith Collaborative change (5.0 credit capacitements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour ferent areas of stud A, Sustainability and 0.0 credit in: ENVE 5800 [0.0]	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses, with at least 0.5 credit from two y listed below outside the area of d Climate Change Master's Seminar (participation	1.5 2.5 5.0	4. Participation in the Engineering seminals. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits in CLIM 5000 [1.0] 2. 0.0 credit in CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in elections having sufficient of School of Business of School of Business. 5. 4.25 credits in collinions (1.0) 6. 1.0 credit in elections (1.0) 8. 0.0 credit in	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the relsewhere, with permission of the mpulsory core courses ive courses Internship 1	2.55 5.0 1.0 0.25 1.0 4.25 1.0
M. wince the control of the control	equirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour 2.5 credits in: SYSC 5909 [2.5] A.Sc. Environr ith Collaborative change (5.0 credit cequirements: 1.0 credit in: CLIM 5000 [1.0] 0.0 credit in: CLIM 5800 [0.0] 1.5 credits in cour ferent areas of stud A, Sustainability and 0.0 credit in:	Climate Collaboration Climate Seminar Series ses M.A.Sc. Thesis (in the area of climate change) mental Engineering re Specialization in Climate lits) Climate Collaboration Climate Seminar Series ses, with at least 0.5 credit from two y listed below outside the area of d Climate Change Master's Seminar (participation in the graduate student seminar	0.0 1.5 2.5 5.0	4. Participation in the Engineering seminal 5. 2.5 credits in: MECH 5909 [2.5] Total Credits M.B.A. with Collaborative Change (8.5 credits in CLIM 5000 [1.0] 2. 0.0 credit in CLIM 5800 [0.0] 3. 0.25 credit in BUSI 5108 [0.25] 4. 1.0 credit in elections having sufficient clearly sufficient c	M.A.Sc. Thesis (in the specialization) We Specialization in Climate dits) Climate Collaboration Climate Seminar Series Sustainable Business Development ive specialization courses designated imate change content, within the relsewhere, with permission of the impulsory core courses ive courses	2.55 5.0 1.0 0.25 1.0 4.25 1.0

¹ Students with less than two (2) years of professional 3. 0.5 credit from: employment experience must ENVE 5105 [0.5] Atmospheric Aerosols successfully complete BUSI 5999 [1.0] Internship in order ENVE 5200 [0.5] Climate Change and Engineering to graduate. Students with ENVE 5201 [0.5] Geo-Environmental Engineering two or more years work experience may apply for an ENVE 5205 [0.5] Sludge Treatment and Disposal exemption. ENVJ 5908 [0.5] Anaerobic Digestion Non-credit required skills workshop. ENVJ 5212 [0.5] Climate Change Impacts on Water M.Eng. Electrical and Computer Engineering Resources with Collaborative Specialization in Climate or approved Special Topics in the area of climate Change (4.5 credits) 4. 2.5 credits in courses, with at least 0.5 credit from two Requirements - project pathway (4.5 credits) different areas of study listed below outside the area of 1. 1.0 credit in: 1.0 EIA, Sustainability and Climate Change CLIM 5000 [1.0] Climate Collaboration 5. 0.0 credit in: 2. 0.0 credit in: 0.0 ENVE 5800 [0.0] Master's Seminar CLIM 5800 [0.0] Climate Seminar Series 6. 1.0 credit in: 3. 0.5 credit in: 0.5 ENVE 5900 [1.0] **Environmental Engineering Project** ELEC 5302 [0.5] Renewable and Distributed Energy (in the specialization) Resource Technologies Note: no more than 1.0 credit may be taken from Sustainable Energy Policy for SERG 5001 [0.5] the following: ENVE 5008, ENVE 5101, ENVE 5200, Engineers **ENVE 5201, ENVE 5301** SERG 5003 [0.5] **Energy Evaluation and Assessment Total Credits** Requirements - Coursework pathway SYSC 5104 [0.5] Methodologies For Discrete-Event 1. 1.0 credit in: Modeling And Simulation or approved Advanced Topic in the area of climate CLIM 5000 [1.0] Climate Collaboration change 2. 0.0 credit in: 4. 2.5 credits in courses 2.5 CLIM 5800 [0.0] Climate Seminar Series 5. 0.5 credit in: 0.5 3. 1.5 credits from: SYSC 5900 [0.5] Systems Engineering Project (in ENVE 5105 [0.5] Atmospheric Aerosols the area of climate change) ENVE 5200 [0.5] Climate Change and Engineering **Total Credits** 4.5 ENVE 5201 [0.5] Geo-Environmental Engineering ENVE 5205 [0.5] Sludge Treatment and Disposal Requirements - coursework pathway (4.5 credits) ENVJ 5908 [0.5] Anaerobic Digestion 1. 1.0 credit in: 1.0 Climate Change Impacts on Water ENVJ 5212 [0.5] CLIM 5000 [1.0] Climate Collaboration Resources 2. 0.0 credit in: 0.0 or approved Special Topics in the area of climate CLIM 5800 [0.0] Climate Seminar Series 3. 0.5 credit in: 0.5 4. 2.5 credits in courses, with at least 0.5 credit from two ELEC 5302 [0.5] Renewable and Distributed Energy different areas of study listed below outside the area of Resource Technologies EIA, Sustainability and Climate Change SERG 5001 [0.5] Sustainable Energy Policy for Note: no more than 1.5 credits may be taken from Engineers the following: ENVE 5008, ENVE 5101, ENVE 5200, SERG 5003 [0.5] **Energy Evaluation and Assessment ENVE 5201, ENVE 5301** Tools **Total Credits** SYSC 5104 [0.5] Methodologies For Discrete-Event M.A. Political Economy Modeling And Simulation with Collaborative Specialization in Climate or approved Advanced Topic in the area of climate change Change (5.0 credits) 4. 3.0 credits in courses 3.0 Requirements - Thesis pathway (5.0 credits) **Total Credits** 4.5 1. 1.0 credit in: CLIM 5000 [1.0] Climate Collaboration M.Eng. Environmental Engineering 2. 0.0 credit in: with Collaborative Specialization in Climate CLIM 5800 [0.0] Change (5.0 credits) Climate Seminar Series 3. 1.0 credit in: Requirements - Project pathway PECO 5000 [0.5] Theories of Political Economy 1. 1.0 credit in: PECO 5001 [0.5] Methodologies of Political Economy CLIM 5000 [1.0] Climate Collaboration 4. 2.0 credits in: 2. 0.0 credit in: PECO 5909 [2.0] M.A. Thesis (in the specialization, CLIM 5800 [0.0] Climate Seminar Series

0.5

2.5

1.0

5.0

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2.5

5.0

1.0

2.0

including an oral examination)

5. 1.0 credit in approved graduate level electives (see Selection of Courses, below) ¹			1.0
Total Credit	ts		5.0
Requireme	nts - Res	earch essay pathway (5.0 credits)	
1. 1.0 cred	it in:		1.0
CLIM 500	00 [1.0]	Climate Collaboration	
2. 0.0 cred	it in:		0.0
CLIM 5800	[0.0]	Climate Seminar Series	0.0
3. 1.0 cred	it in:		1.0
PECO 50	000 [0.5]	Theories of Political Economy	
PECO 50	01 [0.5]	Methodologies of Political Economy	
4. 1.0 cred	it in:		1.0
PECO 59	008 [1.0]	Research Essay (in the specialization)	
5. 2.0 credits in approved graduate level electives (see Selection of Courses, below) ¹			2.0
Total Credit	ts		5.0

¹ Up to one (1.0) credit may be taken at the 4000 (honours undergraduate) level.

Master of Public Policy and Administration with Collaborative Specialization in Climate Change (7.0 credits)

C	Change (7.0 credits)				
Requirements - coursework pathway (7.0 credits)					
1.	. 1.0 credit in: 1				
	CLIM 5000 [1.0]	.0] Climate Collaboration			
2.	0.0 credit in:		0.0		
	CLIM 5800 [0.0]	Climate Seminar Series			
3.	4.5 credits in core	courses:	4.5		
	PADM 5120 [0.5]	Modern Challenges to Governance			
	PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change			
	PADM 5122 [0.5]	Public Management: Principles and Approaches			
	PADM 5123 [0.5]	Public Management in Practice			
	PADM 5125 [0.5]	Qualitative Methods for Public Policy			
	PADM 5126 [0.5]	Quantitative Methods for Public Policy			
	PADM 5127 [0.5]	Microeconomics for Policy Analysis			
	PADM 5128 [0.5]	Macroeconomics for Policy Analysis			
	PADM 5129 [0.5]	Capstone Course			
	4. 1.0 credits in approved climate change electives (see School website for details)				
	0.5 credit in appror details)	ved electives (see School website	0.5		
To	Total Credits 7.				
Requirements - research essay pathway (7.0 credits)					
1.	1.0 credit in:		1.0		
	CLIM 5000 [1.0]	Climate Collaboration			
2.	0.0 credit in:		0.0		
	CLIM 5800 [0.0]	Climate Seminar Series			

PADM 5120 [0.5] Modern Challenges to Governance

3. 4.5 credits in core courses:

Master of Public Policy - Sustainable Energy and the Environment				
To	otal Credits		7.0	
	5. 0.5 credit in approved electives (see School website for details)			
	PADM 5908 [1.0]	Research Essay (in the Specialization)		
4.	1.0 credit in:		1.0	
	PADM 5129 [0.5]	Capstone Course		
	PADM 5128 [0.5]	Macroeconomics for Policy Analysis		
	PADM 5127 [0.5]	Microeconomics for Policy Analysis		
	PADM 5126 [0.5]	Quantitative Methods for Public Policy		
	PADM 5125 [0.5]	Qualitative Methods for Public Policy		
	PADM 5123 [0.5]	Public Management in Practice		
	PADM 5122 [0.5]	Public Management: Principles and Approaches		
	PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change		

with Collaborative Specialization in Climate Change (6.0 credits)

Requirements - Coursework pathway:

1.	1.0 credit in:		1.0	
	CLIM 5000 [1.0]	Climate Collaboration		
2.	0.0 credit in:			
	CLIM 5800 [0.0]	Climate Seminar Series		
3.	1.5 credits in:		1.5	
	SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students		
	SERG 5003 [0.5]	Energy Evaluation and Assessment Tools		
	SERG 5005 [0.5]	Applied Interdisciplinary Project		
4.	0.0 credit in:		0.0	
	SERG 5800 [0.0]	Sustainable Energy Seminar		
5.	0.5 credit in:		0.5	
	PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change		
6.	0.5 credit in:		0.5	
	PADM 5510 [0.5]	Energy Economics		
7.	0.5 credit in:		0.5	
	PADM 5515 [0.5]	Sustainable Energy Policy		
or PADM 5615 [0.8] plitics and Policy of Energy in Canada				
lis		ustainable Energy Policy courses ourses as approved by the MA	2.0	
To	otal Credits	_	6.0	
Deguiremente Becerch essey nethways				

Requirements - Research essay pathway:

4.5

requirements recours coday patimay.				
1.0	1. 1.0 credit in:			
Collaboration	CLIM 5000 [1.0]			
	2. 0.0 credit in:			
Seminar Series	CLIM 5800 [0.0]			
1.5	3. 1.5 credits in:			
able Energy Engineering for Students	SERG 5002 [0.5]			
Evaluation and Assessment	SERG 5003 [0.5]			
Seminar Series 1 able Energy Engineering for Students	2. 0.0 credit in: CLIM 5800 [0.0] 3. 1.5 credits in: SERG 5002 [0.5]			

SERG 5005 [0.5]	Applied Interdisciplinary Project		SERG 5001 [0.5]	Sustainable Energy Policy for	
4. 0.0 credit in:		0.0		Engineers	
SERG 5800 [0.0] 5. 0.5 credit in:	Sustainable Energy Seminar	0.5	SERG 5003 [0.5]	Energy Evaluation and Assessment Tools	
PADM 5121 [0.5]	Policy Analysis: The Practical Art of	0.5	SERG 5005 [0.5]	Applied Interdisciplinary Project	
17121110121 [0:0]	Change		4. 0.0 credit in:		
6. 0.5 credit in:		0.5	SERG 5800 [0.0]	Sustainable Energy Seminar	
PADM 5510 [0.5]	Energy Economics		5. 0.5 credit in:		0.5
7. 0.5 credit in:	3, 11 1	0.5	Mechanical Engir	neering Focus:	
PADM 5515 [0.5]	Sustainable Energy Policy 0.Bիlitics and Policy of Energy in Canad		0.	y Conversion courses (listed below), ergy Policy courses	
	ustainable Energy Policy courses	1.0	or		
	courses as approved by the MA	1.0	Electrical Engine	ering focus:	
supervisor	, , , , , , , , , , , , , , , , , , ,		Efficient Electrical	Energy Systems courses (listed	
8. 1.0 credit in:		1.0	below) or Sustaina	ble Energy Policy courses	
PADM 5908 [1.0]	Research Essay (in the		6. 2.0 credits in:		2.0
	specialization)		Mechanical Engir	neering focus:	
Total Credits		6.0	Graduate-level ME	ECH courses	
Demolecus of The	ata mathaman		or		
Requirements - Thes	sis patnway:	4.0	Electrical Engine	ering focus:	
1. 1.0 credit in:		1.0	Graduate-level ELI	EC, SYSC or EACJ courses	
CLIM 5000 [1.0]	Climate Collaboration		Total Credits		5.0
2. 0.0 credit in:			M 0 - M	4	
CLIM 5800 [0.0]	Climate Seminar Series		M.Sc. Manageme		
3. 1.5 credits in:		1.5		ve Specialization in Climate	
SERG 5002 [0.5]	Sustainable Energy Engineering for Policy Students		Change (5.0 cred	dits) sis pathway (5.0 credits):	
SERG 5003 [0.5]	Energy Evaluation and Assessment		1. 1.0 credit in:	, , , , , , , , , , , , , , , , , , , ,	1.0
0550 5005 10 51	Tools		CLIM 5000 [1.0]	Climate Collaboration	
SERG 5005 [0.5]	Applied Interdisciplinary Project		2. 0.0 credit in:		
4. 0.0 credit in:		0.0	CLIM 5800 [0.0]	Climate Seminar Series	
SERG 5800 [0.0]	Sustainable Energy Seminar		3. 1.5 credits in:	Ca. Ca. Cc	1.5
5. 0.5 credit in:		0.5	BUSI 5980 [0.5]	Foundations of Management	1.0
PADM 5121 [0.5]	Policy Analysis: The Practical Art of Change		BUSI 5981 [0.5]	Theory and Research Statistics for Business Research	
6. 0.5 credit in:		0.5	BUSI 5982 [0.5]	Research Methodology in Business	
PADM 5510 [0.5]	Energy Economics		4. 0.5 credit from:	Research Methodology III Business	0.5
7. 0.5 credit in:		0.5		Qualitative Research Design	0.5
PADM 5515 [0.5]	Sustainable Energy Policy		BUSI 5983 [0.5]	•	
or PADM 5615 [0. ₿ þlitics and Policy of Energy in Canad	а	BUSI 5984 [0.5]	Quantitative Research Design	
8. 2.0 credits in:		2.0	5. 0.0 credit in:	M.Co. Theorie Tutorial	
SERG 5909 [2.0]	MA Sustainable Energy Thesis (in		BUSI 5987 [0.0]	M.Sc. Thesis Tutorial	2.0
	the specialization)		6. 2.0 credits in:	M.Co. Thosis (in the appointment)	2.0
Total Credits		6.0	BUSI 5989 [2.0]	M.Sc. Thesis (in the specialization)	
Notes:			Total Credits		5.0
Courses must be appropriate to the student's			Requirements - Res	earch essay pathway (5.0 credits):	
qualifications and selected with the approval of the			1. 1.0 credit in:		1.0
student's progra			CLIM 5000 [1.0]	Climate Collaboration	
. •	·		2. 0.0 credit in:		
M.Eng. Sustainable Energy			CLIM 5800 [0.0]	Climate Seminar Series	
	ve Specialization in Climate		3. 1.0 credit in appro	oved electives	1.0
Change (5.0 Cre	uitə)		4. 1.5 credits in:		1.5
Requirements:			BUSI 5980 [0.5]	Foundations of Management	
1. 1.0 credit in:		1.0	Bulgiera	Theory and Research	
CLIM 5000 [1.0]	Climate Collaboration		BUSI 5981 [0.5]	Statistics for Business Research	
2. 0.0 credit in:			BUSI 5982 [0.5]	Research Methodology in Business	
CLIM 5800 [0.0]	Climate Seminar Series		4. 0.5 credit from:		0.5
3. 1.5 credits in:		1.5	BUSI 5983 [0.5]	Qualitative Research Design	

BUSI 5984 [0.5] 6. 1.0 credit in:	Quantitative Research Design	1.0
BUSI 5988 [1.0]	M.Sc. Research Essay (in the specialization)	
Total Credits		5.0

Regulations

See the General Regulations section of this Calendar and the regulations of the participating unit.

Admission

Admission to the collaborative master's program in Climate Change is available to master's students who are admitted in one of the participating master's programs. To apply to one of the participating master's programs, please visit the Graduate Students Admissions page.

Climate Change (CLIM) Courses

CLIM 5000 [1.0 credit] **Climate Collaboration**

A seminar on the climate crisis from an interdisciplinary perspective. Drawing on a range of disciplinary approaches from the humanities, social sciences, public policy, engineering and natural science, students will engage with the many factors bearing on the climate crisis and how to address it.

CLIM 5800 [0.0 credit] **Climate Seminar Series**

A series of seminars presented by researchers and practitioners in the area of climate change. To complete this course, a student must attend six seminars.