

Geography

Program Requirements

Geography

B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.0 credits)

1. 1.5 credits in:	1.5
GEOG 1010 [0.5]	Global Environmental Systems
GEOG 1020 [0.5]	People, Places and Environments
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution
2. 0.5 credit from:	0.5
GEOG 2020 [0.5]	Physical Environments of Canada
GEOG 2013 [0.5]	Weather and Water
GEOG 2014 [0.5]	The Earth's Surface
3. 1.0 credit in:	1.0
GEOG 2005 [0.5]	Introduction to Qualitative Research
GEOG 2006 [0.5]	Introduction to Quantitative Research
4. 1.5 credits from:	1.5
GEOG 2200 [0.5]	Global Connections
GEOG 2300 [0.5]	Space, Place and Culture
GEOG 2400 [0.5]	Cities and Urbanization
GEOG 2500 [0.5]	Climate Change: Social Science Perspectives
5. 0.5 credit from:	0.5
GEOG 3000 [0.5]	Honours Field Course
GEOG 3030 [0.5]	Regional Field Excursion
6. 0.5 credit from:	0.5
GEOG 3001 [0.5]	Doing Qualitative Research
GEOG 3003 [0.5]	Quantitative Geography
GEOM 2007 [0.5]	Geographic Information Systems
GEOM 3002 [0.5]	Air Photo Interpretation and Remote Sensing
GEOM 3007 [0.5]	Cartographic Theory and Design
7. 1.0 credit from:	1.0
GEOG 3021 [0.5]	Geographies of Culture and Identity
GEOG 3022 [0.5]	Environmental and Natural Resources
GEOG 3023 [0.5]	Cities in a Global World
GEOG 3024 [0.5]	Understanding Globalization
GEOG 3025 [0.5]	Geographies of Selected Regions
GEOG 3026 [0.5]	Topics in the Geography of Canada
8. 1.0 credit in GEOG and/or GEOM at the 3000- level or above	1.0
9. 2.5 credits from:	2.5
a) Thesis stream:	
GEOG 4909 [1.0] plus 1.5 credits from GEOG/GEOM and/or ENST at the 4000-level	
b) Course stream:	
2.5 credits from GEOG/GEOM and/or ENST at the 4000-level	
B. Credits Not Included in the Major CGPA (10.0 credits)	
10. 8.0 credits in electives not in GEOG	8.0

11. 2.0 credits in free electives	2.0
Total Credits	20.0

Geography with Concentration in Physical Geography

B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.0 credits)

1. 1.5 credits in:	1.5
GEOG 1010 [0.5]	Global Environmental Systems
GEOG 1020 [0.5]	People, Places and Environments
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution
2. 2.0 credits in:	2.0
GEOG 2005 [0.5]	Introduction to Qualitative Research
GEOG 2006 [0.5]	Introduction to Quantitative Research
GEOG 2013 [0.5]	Weather and Water
GEOG 2014 [0.5]	The Earth's Surface
3. 1.0 credit from:	1.0
GEOG 2200 [0.5]	Global Connections
GEOG 2300 [0.5]	Space, Place and Culture
GEOG 2400 [0.5]	Cities and Urbanization
GEOG 2500 [0.5]	Climate Change: Social Science Perspectives
4. 0.5 credit in:	0.5
GEOG 3000 [0.5]	Honours Field Course
GEOG 3010 [0.5]	Field Methods in Physical Geography
5. 2.0 credits from:	2.0
GEOG 3003 [0.5]	Quantitative Geography
GEOG 3102 [0.5]	Geomorphology
GEOG 3103 [0.5]	Watershed Hydrology
GEOG 3104 [0.5]	Principles of Biogeography
GEOG 3105 [0.5]	Climate and Atmospheric Change
GEOG 3106 [0.5]	Aquatic Science and Management
GEOG 3108 [0.5]	Soil Properties
GEOM 3002 [0.5]	Air Photo Interpretation and Remote Sensing
6. 0.5 credit from:	0.5
GEOG 4406 [0.5]	Practicum I
GEOG 4408 [0.5]	Practicum II
7. 2.5 credits from:	2.5
a) Thesis pathway:	
i. 1.0 credit in:	
GEOG 4909 [1.0]	Honours Research Thesis
ii. 1.5 credits from:	
GEOM 4003 [0.5]	Remote Sensing of the Environment
GEOG 4004 [0.5]	Environmental Impact Assessment
GEOG 4005 [0.5]	Directed Studies in Geography
GEOG 4013 [0.5]	Cold Region Hydrology
GEOG 4017 [0.5]	Global Biogeochemical Cycles
GEOG 4101 [0.5]	Two Million Years of Environmental Change
GEOG 4103 [0.5]	Water Resources Engineering
GEOG 4104 [0.5]	Microclimatology
GEOG 4108 [0.5]	Permafrost

OR

b) Course pathway:

2.5 credits from:

GEOG 4003 [0.5]	Remote Sensing of the Environment
GEOG 4004 [0.5]	Environmental Impact Assessment
GEOG 4005 [0.5]	Directed Studies in Geography
GEOG 4013 [0.5]	Cold Region Hydrology
GEOG 4017 [0.5]	Global Biogeochemical Cycles
GEOG 4101 [0.5]	Two Million Years of Environmental Change
GEOG 4103 [0.5]	Water Resources Engineering
GEOG 4104 [0.5]	Microclimatology
GEOG 4108 [0.5]	Permafrost

B. Credits Not Included in the Major CGPA (10.0 credits)

8. 8.0 credits in	electives not in GEOG	8.0
9. 2.0 credits in	free electives.	2.0
Total Credits		20.0

Geography

B.A. Combined Honours (20.0 credits)

A. Credits Included in the Geography Major CGPA (7.0 credits)

1. 1.0 credit in:	1.0	
GEOG 1010 [0.5]	Global Environmental Systems	
GEOG 1020 [0.5]	People, Places and Environments	
2. 0.5 credit from:	0.5	
GEOG 2020 [0.5]	Physical Environments of Canada	
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
3. 1.0 credit from:	1.0	
GEOG 2200 [0.5]	Global Connections	
GEOG 2300 [0.5]	Space, Place and Culture	
GEOG 2400 [0.5]	Cities and Urbanization	
GEOG 2500 [0.5]	Climate Change: Social Science Perspectives	
4. 1.0 credit from:	1.0	
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
GEOG 2005 [0.5]	Introduction to Qualitative Research	
GEOG 2006 [0.5]	Introduction to Quantitative Research	
5. 1.5 credits in	GEOG and/or GEOM at the 3000- level or above	1.5
6. 1.0 credit in	GEOG and/or GEOM at the 4000- level	1.0
7. 1.0 credit in:	1.0	
a) Thesis pathway		
GEOG 4909 [1.0]	Honours Research Thesis	
OR		
b) Course pathway		
1.0 credit in GEOG at the 4000-level		
B. Additional Requirements (13.0 credits)	13.0	
8. The requirements of the other Honours discipline must be satisfied		

9. Sufficient free electives to total 20.0 credits for the program.

Total Credits	20.0
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Geography

B.A. General (15.0 credits)

A. Credits Included in the Major CGPA (7.0 credits)

1. 1.0 credit in:	1.0	
GEOG 1010 [0.5]	Global Environmental Systems	
GEOG 1020 [0.5]	People, Places and Environments	
2. 0.5 credit from:	0.5	
GEOG 2020 [0.5]	Physical Environments of Canada	
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
3. 1.0 credit from:	1.0	
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
GEOG 2005 [0.5]	Introduction to Qualitative Research	
GEOG 2006 [0.5]	Introduction to Quantitative Research	
4. 1.0 credit from:	1.0	
GEOG 2200 [0.5]	Global Connections	
GEOG 2300 [0.5]	Space, Place and Culture	
GEOG 2400 [0.5]	Cities and Urbanization	
GEOG 2500 [0.5]	Climate Change: Social Science Perspectives	
5. 1.0 credit in	GEOG and/or GEOM at the 2000- level or above	1.0
6. 2.5 credits in	GEOG and/or GEOM at the 3000- level or above	2.5
B. Credits Not Included in the Geography Major CGPA (8.0 credits)		
7. 6.0 credits in	electives not in GEOG	7.0
8. 2.0 credit in	free electives.	1.0
Total Credits		15.0

Course Categories for B.Sc. Geography

Lists of courses for all other categories (Science Continuation, Approved Experimental Science, Science Faculty Electives and Approved Arts or Social Sciences Electives) are located at the Academic Regulations for the B.Sc. page.

**Earth Sciences and Geography:
Concentration in Terrain Science**

B.Sc. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (12.5 credits)

1. 0.5 credit in:	0.5
GEOG 2014 [0.5]	The Earth's Surface
2. 0.5 credit in:	0.5
ERTH 1006 [0.5]	Exploring Planet Earth
3. 2.5 credits in:	2.5
ERTH 2102 [0.5]	Mineralogy to Petrology
ERTH 2104 [0.5]	Igneous Systems, Geochemistry and Processes
ERTH 2314 [0.5]	Sedimentation and Stratigraphy
ERTH 2406 [0.5]	Geology and Map Interpretation
ERTH 2802 [0.5]	Field Geology I

4. 0.5 credit from:		0.5
ERTH 3203 [0.5]	Applied Sedimentology	
ERTH 3206 [0.5]	Oceanography: Its Modern and Geologic Records (See Note, below)	
5. 1.5 credits in:		1.5
ERTH 3205 [0.5]	Physical Hydrogeology	
ERTH 3207 [0.5]	Metamorphic Petrology and Processes	
ERTH 3806 [0.5]	Structural Geology	
6. 1.0 credit in EARTH at the 4000-level		1.0
7. 0.5 credit from:		0.5
GEOG 2006 [0.5]	Introduction to Quantitative Research	
STAT 2507 [0.5]	Introduction to Statistical Modeling I	
8. 1.5 credits in:		1.5
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
GEOM 2007 [0.5]	Geographic Information Systems	
GEOG 2013 [0.5]	Weather and Water	
9. 2.0 credits in:		2.0
GEOM 3002 [0.5]	Air Photo Interpretation and Remote Sensing	
GEOG 3102 [0.5]	Geomorphology	
GEOG 3105 [0.5]	Climate and Atmospheric Change	
GEOG 3108 [0.5]	Soil Properties	
10. 1.0 credit in:		1.0
GEOG 4101 [0.5]	Two Million Years of Environmental Change	
GEOG 4108 [0.5]	Permafrost	
11. 1.0 credit from:		1.0
GEOG 4906 [1.0]	Honours Research Project	
ERTH 4908 [1.0]	Honours Thesis	
ERTH 4909 and 0.5 credit 4000-level EARTH		
B. Credits Not Included in the Major CGPA (7.5 credits)		
12. 1.0 credit in:		1.0
MATH 1007 [0.5]	Elementary Calculus I	
MATH 1107 [0.5]	Linear Algebra I	
13. 1.0 credit from:		1.0
CHEM 1001 [0.5]	General Chemistry I	
& CHEM 1002 [0.5]	General Chemistry II	
CHEM 1005 [0.5]	Elementary Chemistry I	
& CHEM 1006 [0.5]	Elementary Chemistry II	
14. 1.0 credit from:		1.0
PHYS 1003 [0.5]	Introductory Mechanics and	
& PHYS 1004 [0.5]	Thermodynamics	
	Introductory Electromagnetism and	
	Wave Motion	
PHYS 1007 [0.5]	Elementary University Physics I	
& PHYS 1008 [0.5]	Elementary University Physics II	
15. 0.5 credit in:		0.5
COMP 1004 [0.5]	Introduction to Computers for the Sciences	
16. 0.5 credit in:		0.5
BIOL 1104 [0.5]	Foundations of Biology II	
17. 0.5 credit in	Advanced Science Faculty electives	0.5
18. 0.5 credit in:		0.5

NSCI 1000 [0.5]	Seminar in Science (or approved courses outside the faculties of Science and Engineering and Design)	
19. 1.5 credits in	approved courses outside the faculties of Science and Engineering and Design	1.5
20. 1.0 credit in	free electives.	1.0
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Total Credits		20.0

Note: for **Item 4** above, EARTH 3203 is required if prerequisite conditions are met.

Earth Sciences and Physical Geography B.Sc. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (12.0 credits)

1. 1.0 credit in:		1.0
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
2. 0.5 credit in:		0.5
ERTH 1006 [0.5]	Exploring Planet Earth	
3. 1.5 credits in:		1.5
ERTH 2102 [0.5]	Mineralogy to Petrology	
ERTH 2314 [0.5]	Sedimentation and Stratigraphy	
ERTH 2406 [0.5]	Geology and Map Interpretation	
4. 0.5 credit in:		0.5
ENSC 2000 [0.5]	Environmental Science Field Methods	
5. 2.0 credits in	ERTH at the 3000-level or above	2.0
6. 1.0 credit in	ERTH at the 4000-level	1.0
7. 1.5 credits in	Science Geography or Geomatics courses at the 2000-level or above to include	1.5
GEOM 2007 [0.5]	Geographic Information Systems	
8. 2.0 credits in:		2.0
GEOM 3002 [0.5]	Air Photo Interpretation and Remote Sensing	
GEOG 3102 [0.5]	Geomorphology	
GEOG 3105 [0.5]	Climate and Atmospheric Change	
GEOG 3108 [0.5]	Soil Properties	
9. 1.0 credit in	Science Geography or Geomatics courses at the 4000-level	1.0
10. 1.0 credit from:		1.0
GEOG 4906 [1.0]	Honours Research Project	
ERTH 4908 [1.0]	Honours Thesis	
ERTH 4909 and 0.5 credit 4000-level EARTH		

B. Credits Not Included in the Major CGPA (8.0 credits)

11. 1.0 credit in:		1.0
MATH 1007 [0.5]	Elementary Calculus I	
MATH 1107 [0.5]	Linear Algebra I	
12. 1.0 credit in:		1.0
CHEM 1001 [0.5]	General Chemistry I	
& CHEM 1002 [0.5]	General Chemistry II	
13. 1.0 credit in:		1.0
PHYS 1007 [0.5]	Elementary University Physics I	
& PHYS 1008 [0.5]	Elementary University Physics II	
14. 0.5 credit in:		0.5
BIOL 1104 [0.5]	Foundations of Biology II	
15. 1.0 credit in	MATH (MATH, STAT) at 2000-level or above; and/or in COMP	1.0

STAT 2507 [0.5]	Introduction to Statistical Modeling I (recommended)	
COMP 1004 [0.5]	Introduction to Computers for the Sciences (recommended)	
16. 1.0 credit in	Advanced Science Faculty Electives	1.0
17. 0.5 credit in:		0.5
NSCI 1000 [0.5]	Seminar in Science (or Approved Arts or Social Sciences)	
18. 1.5 credits in	Approved Arts or Social Sciences	1.5
19. 0.5 credit in	free electives	0.5
Total Credits		20.0

Physical Geography

B.Sc. Honours (20.0 credits)

A. Credits Included in the Major CGPA (10.0 credits)

1. 1.0 credit from:		1.0
GEOG 1010 [0.5]	Global Environmental Systems or EARTH 1006 [0.5] Exploring Planet Earth and	
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
2. 1.0 credit in:		1.0
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
3. 0.5 credit from:		0.5
GEOG 2006 [0.5]	Introduction to Quantitative Research	
STAT 2507 [0.5]	Introduction to Statistical Modeling I	
4. 0.5 credit from:		0.5
GEOG 3000 [0.5]	Honours Field Course	
GEOG 3010 [0.5]	Field Methods in Physical Geography	
5. 2.5 credits from:		2.5
GEOG 3003 [0.5]	Quantitative Geography	
GEOG 3102 [0.5]	Geomorphology	
GEOG 3103 [0.5]	Watershed Hydrology	
GEOG 3104 [0.5]	Principles of Biogeography	
GEOG 3105 [0.5]	Climate and Atmospheric Change	
GEOG 3106 [0.5]	Aquatic Science and Management	
GEOG 3108 [0.5]	Soil Properties	
GEOM 3002 [0.5]	Air Photo Interpretation and Remote Sensing	
6. 1.5 credits from:		1.5
GEOG 3000 [0.5]	Honours Field Course	
GEOG 3003 [0.5]	Quantitative Geography	
GEOG 3010 [0.5]	Field Methods in Physical Geography	
GEOG 3102 [0.5]	Geomorphology	
GEOG 3103 [0.5]	Watershed Hydrology	
GEOG 3104 [0.5]	Principles of Biogeography	
GEOG 3105 [0.5]	Climate and Atmospheric Change	
GEOG 3108 [0.5]	Soil Properties	
GEOG 4000 [0.5]	Field Studies	
GEOG 4005 [0.5]	Directed Studies in Geography	
GEOG 4013 [0.5]	Cold Region Hydrology	
GEOG 4017 [0.5]	Global Biogeochemical Cycles	
GEOG 4101 [0.5]	Two Million Years of Environmental Change	

GEOG 4103 [0.5]	Water Resources Engineering	
GEOG 4104 [0.5]	Microclimatology	
GEOG 4108 [0.5]	Permafrost	
7. 2.0 credits from:		2.0
GEOM at the 4000 level or		
GEOG 4000 [0.5]	Field Studies	
GEOG 4004 [0.5]	Environmental Impact Assessment	
GEOG 4005 [0.5]	Directed Studies in Geography	
GEOG 4013 [0.5]	Cold Region Hydrology	
GEOG 4017 [0.5]	Global Biogeochemical Cycles	
GEOG 4101 [0.5]	Two Million Years of Environmental Change	
GEOG 4103 [0.5]	Water Resources Engineering	
GEOG 4104 [0.5]	Microclimatology	
GEOG 4108 [0.5]	Permafrost	
GEOG 4406 [0.5]	Practicum I	
GEOG 4408 [0.5]	Practicum II	
8. 1.0 credit in:		1.0
GEOG 4906 [1.0]	Honours Research Project	
B. Credits Not Included in the Major CGPA (10.0 credits)		
9. 1.0 credit in	Experimental Science Electives	1.0
10. 0.5 credit in:		0.5
MATH 1007 [0.5]	Elementary Calculus I	
11. 0.5 credit in	MATH or COMP	0.5
12. 2.0 credits in	Science Continuation, not in GEOG	2.0
13. 1.0 credits in	Science Faculty Electives	1.0
14. 0.5 credit from:		0.5
NSCI 1000 [0.5]	Seminar in Science (or approved courses outside the faculties of Science and Engineering and Design)	
15. 1.0 credit in	approved courses outside the faculties of Science and Engineering and Design, not in GEOG	1.0
16. 0.5 credit in	approved courses outside the faculties of Science and Engineering and Design	0.5
17. 3.0 credits in	free electives.	3.0
Total Credits		20.0

Specialization in Globalization and the Environment

B.G.In.S. Honours (20.0 credits)

A. Credits Included in the Major CGPA (12.0 credits)

1. 4.5 credits in:		4.5
GINS 1000 [0.5]	Global History	
GINS 1010 [0.5]	International Law and Politics	
GINS 1020 [0.5]	Ethnography, Globalization and Culture	
GINS 2000 [0.5]	Ethics and Globalization	
GINS 2010 [0.5]	Globalization and International Economic Issues	
GINS 2020 [0.5]	Global Literatures	
GINS 3010 [0.5]	Global and International Theory	
GINS 3020 [0.5]	Places, Boundaries, Movements and Global Environmental Change	
GINS 4090 [0.5]	Honours Seminar in Global and International Studies	
2. 7.5 credits in:	the Specialization	
a. 1.5 credits in:	Foundations	1.5

GEOG 1010 [0.5]	Global Environmental Systems	
GEOG 1020/ ENST 1020 [0.5]	People, Places and Environments	
GEOG 2200 [0.5]	Global Connections	
b. 1.5 credits from: Globalization		1.5
GEOG 2300 [0.5]	Space, Place and Culture	
GEOG 2400 [0.5]	Cities and Urbanization	
GEOG 3023 [0.5]	Cities in a Global World	
GEOG 3024 [0.5]	Understanding Globalization	
GEOG 3025 [0.5]	Geographies of Selected Regions	
GEOG 3030 [0.5]	Regional Field Excursion	
c. 2.0 credits from: Global Environment		2.0
GEOG 2500/ ENST 2500 [0.5]	Climate Change: Social Science Perspectives	
GEOG 3022/ ENST 3022 [0.5]	Environmental and Natural Resources	
GEOG 3206 [0.5]	Health, Environment, and Society	
GEOG 3209 [0.5]	Sustainability and Environment in the South	
GEOG 3404 [0.5]	Geographies of Economic Development	
HUMR 3503 [0.5]	Global Environmental Justice	
PSCI 3801 [0.5]	Environmental Politics	
TSES 3002 [0.5]	Energy and Sustainability	
d. 1.0 credit in: Research Methodologies		1.0
GEOG 2005/ ENST 2005 [0.5]	Introduction to Qualitative Research	
GEOG 2006/ ENST 2006 [0.5]	Introduction to Quantitative Research	
e. 1.5 credits from: Honours Seminars		1.5
GEOG 4005/ ENST 4005 [0.5]	Directed Studies in Geography (topic in Global Environmental Issues)	
GEOG 4022 [0.5]	Seminar in People, Resources and Environmental Change	
GEOG 4023 [0.5]	Seminar in Special Topics on the City	
GEOG 4024 [0.5]	Seminar in Globalization	
GEOG 4909 [1.0]	Honours Research Thesis (topic in Globalization and the Environment)	
PSCI 4808 [0.5]	Global Environmental Politics	
B. Credits Not Included in the Major CGPA (8.0 credits)		
3. 8.0 credits in: free electives		8.0
C. Additional Requirements		
4. The International Experience requirement must be met.		
5. The Language requirement must be met.		
Total Credits		20.0

Stream in Globalization and the Environment B.G. In.S. General (15.0 credits)

A. Credits Included in the Major CGPA (8.0 credits)		
1. 4.0 credits in: Core Courses		4.0
GINS 1000 [0.5]	Global History	
GINS 1010 [0.5]	International Law and Politics	
GINS 1020 [0.5]	Ethnography, Globalization and Culture	
GINS 2000 [0.5]	Ethics and Globalization	
GINS 2010 [0.5]	Globalization and International Economic Issues	

GINS 2020 [0.5]	Global Literatures	
GINS 3010 [0.5]	Global and International Theory	
GINS 3020 [0.5]	Places, Boundaries, Movements and Global Environmental Change	
2. 4.0 credits from: the Stream		4.0
a. Foundations		
GEOG 1010 [0.5]	Global Environmental Systems	
GEOG 1020/ ENST 1020 [0.5]	People, Places and Environments	
GEOG 2200 [0.5]	Global Connections	
b. Globalization		
GEOG 2300 [0.5]	Space, Place and Culture	
GEOG 2400 [0.5]	Cities and Urbanization	
GEOG 3023 [0.5]	Cities in a Global World	
GEOG 3024 [0.5]	Understanding Globalization	
GEOG 3025 [0.5]	Geographies of Selected Regions	
GEOG 3030 [0.5]	Regional Field Excursion	
c. Global Environment		
GEOG 2500/ ENST 2500 [0.5]	Climate Change: Social Science Perspectives	
GEOG 3022/ ENST 3022 [0.5]	Environmental and Natural Resources	
GEOG 3206 [0.5]	Health, Environment, and Society	
HUMR 3503 [0.5]	Global Environmental Justice	
PSCI 3801 [0.5]	Environmental Politics	
TSES 3002 [0.5]	Energy and Sustainability	
d. Research Methodologies		
GEOG 2005/ ENST 2005 [0.5]	Introduction to Qualitative Research	
GEOG 2006/ ENST 2006 [0.5]	Introduction to Quantitative Research	
B. Credits Not Included in the Major CGPA (7.0 credits):		
3. 7.0 credits in: Free Electives		7.0
C. Additional Requirements		
4. The Language requirement must be met.		
Total Credits		15.0

Minor in Geography (4.0 credits)

Open to all undergraduate degree students not in Geography programs or the B.G.In.S. Specialization or Stream in Globalization and the Environment.

Requirements:

1. 1.0 credit in:		1.0
GEOG 1010 [0.5]	Global Environmental Systems	
GEOG 1020 [0.5]	People, Places and Environments	
2. 0.5 credit from:		0.5
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
GEOG 2020 [0.5]	Physical Environments of Canada	
3. 0.5 credit from:		0.5
GEOG 2005 [0.5]	Introduction to Qualitative Research	
GEOG 2006 [0.5]	Introduction to Quantitative Research	
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
4. 0.5 credit from:		0.5

GEOG 2200 [0.5]	Global Connections	
GEOG 2300 [0.5]	Space, Place and Culture	
GEOG 2400 [0.5]	Cities and Urbanization	
GEOG 2500 [0.5]	Climate Change: Social Science Perspectives	
5. 1.0 credit in GEOG and/or GEOM at the 3000- level or above		1.0
6. 0.5 credit in GEOG or GEOM		0.5
7. The remaining requirements of the major discipline(s) and degree must be satisfied.		
Total Credits		4.0

Minor in Physical Geography (4.0 credits)

Open to all undergraduate degree students not in Geography programs.

Requirements:

1. 0.5 credit from:		0.5
GEOG 1010 [0.5]	Global Environmental Systems	
ERTH 1006 [0.5]	Exploring Planet Earth	
2. 1.0 credit in:		1.0
GEOG 2013 [0.5]	Weather and Water	
GEOG 2014 [0.5]	The Earth's Surface	
3. 2.5 credits from:		2.5
GEOM 3002 [0.5]	Air Photo Interpretation and Remote Sensing	
GEOG 3003 [0.5]	Quantitative Geography	
GEOG 3102 [0.5]	Geomorphology	
GEOG 3103 [0.5]	Watershed Hydrology	
GEOG 3104 [0.5]	Principles of Biogeography	
GEOG 3105 [0.5]	Climate and Atmospheric Change	
GEOG 3106 [0.5]	Aquatic Science and Management	
GEOG 3108 [0.5]	Soil Properties	
GEOG 4013 [0.5]	Cold Region Hydrology	
GEOG 4017 [0.5]	Global Biogeochemical Cycles	
GEOG 4101 [0.5]	Two Million Years of Environmental Change	
GEOG 4104 [0.5]	Microclimatology	
GEOG 4108 [0.5]	Permafrost	
4. The remaining requirements of the major discipline(s) and degree must be satisfied.		
Total Credits		4.0

Minor in Urban Studies (4.0 credits)

Only students pursuing undergraduate programs requiring at least 20.0 credits to graduate may be admitted to the Urban Studies minor.

Requirements:

1. 1.0 credit from:		1.0
FYSM 1107 [1.0]	Social Justice and the City	
GEOG 1020 [0.5]	People, Places and Environments	
GEOM 1004 [0.5]	Maps, Satellites and the Geospatial Revolution	
2. 1.0 credit from:		1.0
GEOG 2200 [0.5]	Global Connections	
GEOG 2400 [0.5]	Cities and Urbanization	
GEOM 2007 [0.5]	Geographic Information Systems	
3. 0.5 credit in:		0.5
GEOG 3023 [0.5]	Cities in a Global World	

4. 0.5 credit from:		0.5
ARCU 3100 [0.5]	The Morphology of the City	
ARCU 3501 [0.5]	Fundamentals of Urbanism	
HIST 3209 [0.5]	Canadian Urban History	
HUMR 3002 [0.5]	Right to the City	
5. 0.5 credit from:		0.5
GEOG 4023 [0.5]	Seminar in Special Topics on the City	
GEOG 4303 [0.5]	Urban Planning	
6. 0.5 credit from:		0.5
ARCU 4300 [0.5]	History of Theories of Urbanism	
ARCU 4600 [0.5]	Post-WWII Urbanism	
ARCU 4801 [0.5]	Selected Topics in Urbanism	
CDNS 4901 [0.5]	Selected Topics in Canadian Studies (when offered with an urban theme, such as "Heritage Conservation and Sustainability")	
GEOG 4000 [0.5]	Field Studies (when offered with an urban theme)	
GEOG 4005 [0.5]	Directed Studies in Geography (with urban theme)	
GEOG 4006 [0.5]	Special Topics in Geography & Environmental Studies	
Total Credits		4.0

Geography (GEOG) Courses

4000-level courses are normally restricted to students with fourth-year Honours standing. However, students with third-year standing may take 4000-level courses provided they have the necessary prerequisites, a Geography CGPA of 6.50 or better, and permission of the Department.

GEOG 1010 [0.5 credit]

Global Environmental Systems

Principles, processes and interactions in the Earth's environment emphasizing the flow of energy and matter within global systems. Atmospheric and oceanic processes, earth surface processes and biogeochemical cycling. Case studies on the interaction between human activity and the natural environment.

Lectures three hours a week, laboratory two hours a week.

GEOG 1020 [0.5 credit]

People, Places and Environments

Introduction to human geography. Examination of relationships between people, communities, society and the natural environment at local to global scales. Population change, cultural patterns, and historical, economic, political and environmental forces that shape human activity and experiences from place to place. Also listed as ENST 1020.

Lectures two hours a week and tutorial one hour a week.

GEOG 2005 [0.5 credit]**Introduction to Qualitative Research**

Introduction to the research process, from generating questions to reporting results. Topics include intensive and extensive research approaches; the use of surveys, interviews and other data collection methods; the analysis of qualitative information; and the ethical dimensions of doing research with people and communities.

Also listed as ENST 2005.

Prerequisite(s): 1.0 credit in GEOG or ENST at the 1000-level and second-year standing, or permission of the Department.

Lectures two hours a week, workshop two hours a week.

GEOG 2006 [0.5 credit]**Introduction to Quantitative Research**

Introduction to solving problems using descriptive and inferential statistical methods. Graphical and numerical tools to describe distributions. Probability, sampling and estimates, and hypothesis testing. Fundamentals of spatial statistics and analysis.

Also listed as ENST 2006.

Precludes additional credit for BIT 2000, BIT 2100 (no longer offered), BIT 2300 (no longer offered), NEUR 2002, PSCI 2702, STAT 2507, STAT 2606.

Lectures two hours a week, laboratory two hours a week.

GEOG 2013 [0.5 credit]**Weather and Water**

Introduction to climate, weather and the hydrological cycle. Physical properties of the atmosphere, radiation and energy balances, global circulation, atmospheric moisture and precipitation, weather systems and forecasting, mechanisms of climate change.

Prerequisite(s): GEOG 1010 or EARTH 1006 or ISCI 1001.

Lectures three hours a week, laboratory three hours a week.

GEOG 2014 [0.5 credit]**The Earth's Surface**

Introduction to geomorphology. Weathering, slope and fluvial processes within drainage basins, and glacial and periglacial processes.

Prerequisite(s): GEOG 1010 or EARTH 1006 or ISCI 1001.

Lectures three hours a week, laboratory three hours a week.

GEOG 2020 [0.5 credit]**Physical Environments of Canada**

Canada's physiography, climates, biogeography, soils, and landforms.

Prerequisite(s): GEOG 1010 or EARTH 1006 or EARTH 1010 or ISCI 1001.

Lectures three hours a week.

GEOG 2200 [0.5 credit]**Global Connections**

Globalization and global environmental change as linked processes. Geographical analysis of economic, cultural and political transformations acting at global, national and local scales. Choices and constraints underlying economic, social and environmental sustainability.

Prerequisite(s): second-year standing or permission of the Department.

Lectures three hours a week.

GEOG 2300 [0.5 credit]**Space, Place and Culture**

Introduction to social and cultural geography, including how theories of space, place, landscape, power, and knowledge can be used to understand the geographic dimensions of social and cultural life. Topics include culture and identity, migration and transnationalism, nature, gender, sexuality, race, colonialism, consumption, and work.

Prerequisite(s): second-year standing or permission of the Department.

Lectures two hours a week, discussion one hour a week.

GEOG 2400 [0.5 credit]**Cities and Urbanization**

Introduction to the study of cities, urbanization and suburbanization. Geography of urban experience, development and change across the globe. Urbanization processes, patterns and issues in different cities and regions; the relationships among urban areas.

Prerequisite(s): second-year standing or permission of the Department.

Lectures three hours a week.

GEOG 2500 [0.5 credit]**Climate Change: Social Science Perspectives**

An introduction to climate change, with an emphasis on human dimensions. Topics include anthropogenic greenhouse gas emissions, regional variations in climate change and their consequences, human vulnerability and adaptation to environmental change, and climate change politics and policies at a variety of geographic scales.

Also listed as ENST 2500.

Prerequisite(s): second-year standing or permission of the Department.

Lectures three hours a week.

GEOG 2600 [0.5 credit]**Geography Behind the Headlines**

Exploration of the geographical backgrounds to selected issues of current public interest, through geography's perspective of integrating human and physical environments. Issues selected will be structured from the global through the national/regional to the local, identifying the interdependencies among the scales.

Lecture three hours a week.

GEOG 3000 [0.5 credit]**Honours Field Course**

Field research, with a focus on data collection methods, analysis and presentation of findings. Design and conduct research that links the human and biophysical environment. Topics may change from year to year. Also listed as ENST 3900.

Precludes additional credit for ENST 2900 (no longer offered).

Prerequisite(s): GEOG 2005/ENST 2005 and GEOG 2006/ENST 2006, third-year Honours standing in Geography, Geomatics or Environmental Studies, or permission of the Department.

Normally consists of a multi-day field excursion in the Ottawa region. A supplementary charge may apply. Consult the department regarding course details.

GEOG 3001 [0.5 credit]**Doing Qualitative Research**

Theory and methods used in qualitative approaches to research in human geography; hands-on experience and discussion of beliefs and claims underlying scholarly work. Ethical and practical dilemmas confronting researchers. Gathering and interpreting qualitative information; representing knowledge.

Prerequisite(s): GEOG 2005 or ENST 2005.

Lecture and discussion three hours per week.

GEOG 3003 [0.5 credit]**Quantitative Geography**

Quantitative methods used in geographical research: multiple correlation and regression, principal component/factor analysis, spatial statistics, cluster analysis, and a review of other selected techniques. Computer-based analysis.

Prerequisite(s): GEOG 2006 or ENST 2006 or STAT 2507 or permission of the Department.

Lecture two hours a week, laboratory two hours a week.

GEOG 3010 [0.5 credit]**Field Methods in Physical Geography**

Field and laboratory approaches, methodologies and techniques in physical geography. Field projects will be undertaken to collect data for analysis, evaluation and presentation.

Prerequisite(s): GEOG 2006 or ENST 2006 or STAT 2507 and GEOG 2013 or GEOG 2014 or permission of the Department.

Normally consists of a multi-day field camp, including lodging, during Fall or Winter Break, and regular classroom meetings. A supplementary charge will apply.

GEOG 3021 [0.5 credit]**Geographies of Culture and Identity**

Examination of culture, identity and place over time. Colonial and other historical processes that have shaped societies from place to place; relationships between cultural groups and their natural surroundings; gender, ethnicity, nationality and other dimensions of identity; impacts of globalization.

Prerequisite(s): GEOG 2300 and third-year standing, or permission of the Department.

Lecture three hours a week.

GEOG 3022 [0.5 credit]**Environmental and Natural Resources**

Exploration of complexity, dynamics, uncertainty and equity issues underpinning environmental and resource issues; review and appraisal of selected contemporary methods to assess and manage environmental and natural resources.

Also listed as ENST 3022.

Prerequisite(s): third-year standing in Geography or Environmental Studies or permission of the Department. Lecture three hours a week.

GEOG 3023 [0.5 credit]**Cities in a Global World**

Introduces the study of cities as "systems of cities", the political economy of linkages between urban places located unevenly in space, and "cities as systems". Case studies of socio-cultural, political and economic relations within biophysical and built environments.

Prerequisite(s): GEOG 2200 or GEOG 2400, and third-year standing, or permission of the department.

Lecture and discussion three hours a week.

GEOG 3024 [0.5 credit]**Understanding Globalization**

Geographical analysis of processes of globalization: theoretical frameworks, historical context and contemporary challenges.

Prerequisite(s): GEOG 2200 and third-year standing, or permission of the Department.

Lecture three hours a week.

GEOG 3025 [0.5 credit]**Geographies of Selected Regions**

Geographical analysis of key questions facing a selected region of the world. Attention will focus on selected topics within one or more regions and their related global context.

Prerequisite(s): third-year standing in a B.A. program or permission of the Department.

Lecture three hours a week.

GEOG 3026 [0.5 credit]**Topics in the Geography of Canada**

Selected topic concerning the geography of Canada. Topic varies from year to year.

Precludes additional credit for GEOG 2505 [no longer offered].

Prerequisite(s): GEOG 1020 or ENST 1020 and second-year standing, or permission of the Department.

Lecture three hours a week.

GEOG 3030 [0.5 credit]**Regional Field Excursion**

Guided and independent geographic field research, with a focus on data collection methods, and analysis and presentation of findings. Consists of an excursion outside of the Ottawa region. A supplementary charge may apply. Prerequisite(s): third-year Honours standing in Geography, or permission of the Department. A 7-10 day field excursion.

GEOG 3102 [0.5 credit]**Geomorphology**

Geomorphological agents of landscape change at the Earth's surface, emphasizing the role of water, ice and wind in erosion and deposition; use of geomorphic indicators in studies of environmental change. A supplementary charge may apply. Prerequisite(s): GEOG 2014 and third-year standing, or permission of the Department. Lectures two hours a week, laboratory two hours a week, one field excursion.

GEOG 3103 [0.5 credit]**Watershed Hydrology**

Principles of hydrology at local and watershed scales, emphasizing: soil moisture regimes; field data collection and analysis of surface water or snow and ice conditions; hydrologic processes in cold environments; and regional runoff regimes in Canada. Prerequisite(s): GEOG 2013 or permission of the Department. Lectures three hours a week, laboratory two hours a week.

GEOG 3104 [0.5 credit]**Principles of Biogeography**

Contemporary and past controls on distribution of plants and animals at global, regional and local scales; significance of these distributions. Also listed as BIOL 3608. Prerequisite(s): GEOG 1010 or BIOL 2600, or permission of the Department. Lectures, laboratory, and fieldwork five hours a week.

GEOG 3105 [0.5 credit]**Climate and Atmospheric Change**

The global climate system, with emphasis on global change variability over the historical and modern periods; the changing composition of the atmosphere and its impact on climate; analysis and interpretation of climatic and atmospheric data; modeling of climate systems. Prerequisite(s): GEOG 2013 or permission of the Department. Lecture two hours a week, laboratory two hours a week.

GEOG 3106 [0.5 credit]**Aquatic Science and Management**

Fundamentals of aquatic science. The physical, chemical, and biotic aspects of lake, river, and estuary systems including human impacts, management and conservation. Also listed as ENSC 3106. Prerequisite(s): third-year standing and a second-year science or engineering course. Workshop four hours per week.

GEOG 3108 [0.5 credit]**Soil Properties**

The physical and chemical properties of soils; soil-water relationships, weathering processes, soil mineralogy, cation exchange, soil pH. A plant-oriented perspective predominates. Prerequisite(s): GEOG 2013 or GEOG 2014 or permission of the Department. Lectures and laboratory five hours a week.

GEOG 3206 [0.5 credit]**Health, Environment, and Society**

Factors influencing human health in an ecological framework involving population structure, habitat, and behaviour. Changes in the distribution of communicable and degenerative diseases are portrayed as being related to historical and contemporary development and globalization processes. Sources, types and characteristics of geographically referenced health information. Prerequisite(s): third-year standing. Lectures three hours a week.

GEOG 3209 [0.5 credit]**Sustainability and Environment in the South**

Analysis of the relationships between people and environment in selected regions in the South (Africa, Asia, Latin America). Emphasis on sustainable livelihoods and local action in relation to broader socio-economic and political processes. Regions selected vary from year to year. Prerequisite(s): third-year standing and ENST 2000 or ENST 2001 or GEOG 2200 or GEOG 2300 or permission of the Department. Lecture and discussion three hours a week.

GEOG 3404 [0.5 credit]**Geographies of Economic Development**

Geographical approaches to economic development and difference at local, regional and global scales. Critical historical, cultural, social and political economic perspectives on 'development', including theories of the state, colonial power, and development institutions. Spatial dynamics and environmental impacts of economic activity. Prerequisite(s): GEOG 2200 or permission of the Department. Lectures three hours a week.

GEOG 3501 [0.5 credit]**Geographies of the Canadian North**

The physical characteristics, historical geography, economic resources, settlement patterns and problems and the future development of Arctic and Subarctic lands, focusing primarily on Canada.

Prerequisite(s): third-year standing or permission of the Department.

Lectures three hours a week.

GEOG 3700 [0.5 credit]**Population Geography**

The distributional aspects of population attributes; areal patterns of population characteristics and their spatial variations associated with differences in the nature of places; migratory movements within the framework of spatial models of interactions between locations.

Prerequisite(s): GEOG 2200 or GEOG 2300, or permission of the Department.

Lectures three hours a week.

GEOG 3999 [0.0 credit]**Co-operative Work Term**

Work term.

GEOG 4000 [0.5 credit]**Field Studies**

Field observation and methodology in a selected region; individual or group basis.

Also listed as ENST 4400.

Prerequisite(s): third-year Honours standing and permission of the Department.

Hours to be arranged.

GEOG 4004 [0.5 credit]**Environmental Impact Assessment**

Principles, scope and purpose of environmental impact assessment, from conceptual and methodological points of view; range of environmental issues, with emphasis on Canadian case studies.

Prerequisite(s): fourth-year Honours standing in Geography or Environmental Studies or Environmental Science, or permission of the Department. GEOG 3022 or ENST 3022 is recommended.

Lectures and seminars three hours a week.

GEOG 4005 [0.5 credit]**Directed Studies in Geography**

Students pursue their interest in a selected theme in geography on a tutorial basis with a member of the Department.

Prerequisite(s): fourth-year standing in Geography or Environmental Studies or Geomatics and permission of the Department.

Hours to be arranged.

GEOG 4006 [0.5 credit]**Special Topics in Geography & Environmental Studies**

Selected topics in geography and/or environmental studies.

Prerequisite(s): fourth-year Honours standing in the Department or permission of the Department.

Seminar three hours per week.

GEOG 4013 [0.5 credit]**Cold Region Hydrology**

An examination of cold region hydrologic processes via experimental and observational studies; analysis of hydrologic data and application of hydrologic models.

Prerequisite(s): GEOG 3103.

Lecture three hours a week.

GEOG 4017 [0.5 credit]**Global Biogeochemical Cycles**

Processes that control the fluxes and reservoirs of biologically active chemical constituents on land, in the atmosphere, and in the oceans. Interactions between biogeochemical cycles and the Earth's climate; impact of land use and fossil fuel emissions on biogeochemical cycles and global change.

Prerequisite(s): GEOG 3108 or permission of the Department.

Lectures three hours a week.

GEOG 4021 [0.5 credit]**Seminar in Culture, Identity and Place**

Selected topic or field of inquiry concerning the geographic dimensions of culture, identity and place.

Prerequisite(s): GEOG 3021 and fourth-year Honours standing in Geography or permission of the Department.

Seminar three hours a week.

GEOG 4022 [0.5 credit]**Seminar in People, Resources and Environmental Change**

A selected topic or field of inquiry concerning natural resource use and environmental change.

Prerequisite(s): GEOG 3022 or ENST 3022 and fourth-year Honours standing in Geography or Environmental Studies or permission of the Department.

Seminar three hours a week.

GEOG 4023 [0.5 credit]**Seminar in Special Topics on the City**

A selected topic or field of inquiry concerning urban geography.

Prerequisite(s): GEOG 3023 and fourth-year Honours standing in Geography or Environmental Studies or permission of the Department.

Seminar three hours per week.

GEOG 4024 [0.5 credit]**Seminar in Globalization**

A selected issue or topic related to globalization.

Prerequisite(s): GEOG 3024 and fourth-year Honours standing in Geography or permission of the Department.

Seminar three hours week.

GEOG 4040 [0.5 credit]**Geographic Thought**

Major intellectual issues and debates in the development of contemporary human geography, including history of geographic thought, geographic responses to social and political movements and debates, and geographic engagement with contemporary critical theory.

Prerequisite(s): fourth-year Honours standing in Geography or permission of the Department.

Seminar three hours per week.

GEOG 4050 [0.5 credit]**Environmental and Geographic Education**

Selected theoretical and applied issues concerning environmental and geographic education.

Prerequisite(s): third-year Honours standing in Geography or Environmental Studies, or permission of the Department.

Seminar three hours per week.

GEOG 4101 [0.5 credit]**Two Million Years of Environmental Change**

Multidisciplinary scientific study of the changes in the physical environment of the Earth during the last two million years and methods of studying recent Earth history, with focus on current research.

Prerequisite(s): third year standing in a B.Sc. program, or a third year Science Geography Elective or a third year EARTH course, or permission of the Department. Note: GEOG 3105 is recommended.

Lectures three hours a week.

GEOG 4103 [0.5 credit]**Water Resources Engineering**

A quantitative analysis of natural water systems and the development of these systems as a resource. Components of the hydrologic cycle. Quantitative analysis of stream flow. Probability concepts in water resources. Reservoir design and operation. Availability of groundwater. Storm water management.

Also listed as ENVE 3003.

Prerequisite(s): permission of the Department.

Recommended background: MAAE 2300.

Lectures three hours a week, problem analysis one hour a week.

GEOG 4104 [0.5 credit]**Microclimatology**

The formation of microclimates near the Earth's surface; energy and water flows; the interaction of atmospheric processes with the physical properties of surfaces.

Prerequisite(s): GEOG 2013 or permission of the Department.

Lectures three hours a week.

GEOG 4108 [0.5 credit]**Permafrost**

Distribution, development, and degradation of permafrost in Canada; thermal and hydrologic regime of permafrost terrain; development of landforms in permafrost regions; geotechnical consideration in northern construction.

Prerequisite(s): GEOG 3108 or permission of the Department.

Lectures three hours a week.

GEOG 4303 [0.5 credit]**Urban Planning**

A systematic approach to urban planning; urban sprawl; data collection; forecasting; standards; space requirements; land use; zoning; transportation; land development; site selection; land capability; layout; evaluation; housing; urban renewal and new towns.

Also listed as CIVE 4303.

Prerequisite(s): third-year standing, or permission of the Department.

Lectures three hours a week, problem analysis three hours alternate weeks.

GEOG 4304 [0.5 credit]**Transportation Engineering and Planning**

Transportation and the socio-economic environment; modal and intermodal systems and components; vehicle motion; human factors, system and facility design; traffic flow; capacity analysis; planning methodology; environmental impacts; evaluation methods.

Also listed as CIVE 3304.

Prerequisite(s): third-year standing, or permission of the Department.

Lectures three hours a week, problem analysis three hours alternate weeks.

GEOG 4406 [0.5 credit]**Practicum I**

Experience in an employment environment through field placement. Observation and involvement in issues and research methods used by professional geographers. May be taken for credit in addition to GEOG/GEOM 4408.

Also listed as GEOM 4406.

Prerequisite(s): fourth-year Honours standing in Geography or Geomatics and permission of the Department.

Field placement one day a week.

GEOG 4408 [0.5 credit]**Practicum II**

Experience in an employment environment through field placement. Observation and involvement in issues and research methods used by professional geographers. May be taken for credit in addition to GEOG/GEOM 4408.

Also listed as GEOM 4408.

Prerequisite(s): fourth-year Honours standing in Geography or Geomatics and permission of the Department.

Field placement of one day a week.

GEOG 4906 [1.0 credit]**Honours Research Project**

A research project based on a modeling, laboratory or field problem. The project is supervised by a member of the department and a written thesis and poster must be submitted.

Precludes additional credit for GEOG 4904/GEOM 4904 (no longer offered), GEOM 4906, GEOG 4909, GEOM 4909, ENST 4906, and ENST 4907.

Prerequisite(s): fourth-year Honours standing in B.Sc. Geography, and an approved research topic and adviser. Hours to be arranged with faculty adviser.

GEOG 4909 [1.0 credit]**Honours Research Thesis**

Independent design and implementation of a research project leading to the submission of a research thesis. Students work with an individual faculty adviser. The subject for research is decided upon in consultation with the supervisor.

Precludes additional credit for GEOG 4904/GEOM 4904 (no longer offered), GEOG 4906, GEOM 4906, GEOM 4909, ENST 4906, and ENST 4907.

Prerequisite(s): fourth-year Honours standing in B.A. Geography or B. Globalization and International Studies, a minimum CGPA of 9.00 in the major or permission of the Department, and an approved research topic and adviser. Hours to be arranged with faculty adviser.

Summer session: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca