

Honours in Environmental Science (129 credits)	Honours in Environmental Science (120 credits) Program abolished
Requirements 2003-2005	New course codes 2006
Compulsory credits in first-year 43 Suggested course stream for full-time students	Compulsory credits in first-year 39 Suggested course stream for full-time students
Fall:	Fall:
BIO1120 Introduction to Organismal Biology -4	BIO1130 Introduction to Organismal Biology 3
CHM1310 Principles of Chemistry -4	CHM1311 Principles of Chemistry 3
ENG1100 Workshop in Essay Writing 3	ENG1100 Workshop in Essay Writing 3
or	or
ENG1112 Technical Report Writing 3	ENG1112 Technical Report Writing 3
GEO1115 Introduction to Earth Materials 3	GEO1115 Introduction to Earth Materials 3
MAT1320 Calculus I 3	MAT1320 Calculus I 3
PHY1301 Principles of Physics I 3	PHY1321 Principles of Physics I 3
Winter:	Winter:
BIO1140 Introduction to Cell Biology -4	BIO1140 Introduction to Cell Biology 3
CHM1320 Organic Chemistry I -4	CHM1321 Organic Chemistry I 3
EVS1101 Introduction to Environmental Science 3	EVS1101 Introduction to Environmental Science 3
GEG1302 Society and Environment 3	GEG1302 Society and Environment 3
GEO1111 Introduction to Earth Systems 3	GEO1111 Introduction to Earth Systems 3
MAT1323 Calculus and Matrix Algebra 3	MAT1332 Calculus for the Life Sciences II 3
PHY1302 Principles of Physics II 3	PHY1322 Principles of Physics II 3
Students may complete some of the 1000-level course requirements in their second year.	Students may complete some of the 1000-level course requirements in their second year.
Other compulsory credits 48	Other compulsory credits 45
Fall:	Fall:
BIO2109 Ecology -4	BIO2129 Ecology 3
CHM2352 Descriptive Inorganic Chemistry 3	CHM2353 Descriptive Inorganic Chemistry 3
EVS3101 Environmental Issues 3	EVS3101 Environmental Issues 3
EVS4000 Seminar -2	EVS4001 Seminar 3
EVS4009 Research Project 9	EVS4009 Research Project 9
or	or
*Nine credits from the Science and Engineering electives	*Nine credits from the Science and Engineering electives
GEG2320 Introduction to Digital Cartography and GIS 3	GEG2320 Introduction to Digital Cartography and GIS 3
GEO2307 Environmental Geology 3	GEO2307 Environmental Geology 3
GEO3342 Introduction to Hydrogeology 3	GEO3342 Introduction to Hydrogeology 3
MAT2378 Probability and Statistics for the Natural Sciences 3	MAT2378 Probability and Statistics for the Natural Sciences 3
Winter:	Winter:
BIO3117 Ecosystem Ecology 3	BIO3117 Ecosystem Ecology 3
EVS3120 Environmental Microbiology 3	EVS3120 Environmental Microbiology 3
EVS4910 Field Course in Environmental Science -4	EVS4010 Field Course in Environmental Science 3
BIO4118 Applied Biostatistics -5	BIO4158 Applied Biostatistics 3
or	or
GEO3152 Geological Data Analysis -5	GEO3352 Geological Data Analysis 3

Twenty six credits from A, B or C	26	Twenty four credits (minimum) from A, B or C	24
A) Conservation and Biodiversity:		A) Conservation and Biodiversity:	
BIO3115 Conservation Biology	3	BIO3115 Conservation Biology	3
One of the following two:		One of the following two:	
BIO2125 Animal Form and Function	5	BIO2135 Animal Form and Function	3
or		or	
BIO2127 Introduction to Plant Science: Biodiversity to Biotechnology	5	BIO2137 Introduction to Plant Science: Biodiversity to Biotechnology	3
One of the following two:		One of the following two:	
GEO2113 Paleontology	3	GEO2113 Paleontology	3
or		or	
GEO2334 Quaternary Geology and Climate Change	3	GEO2334 Quaternary Geology and Climate Change	3
At least two courses from:		At least two courses from:	
BIO3104 Field Biology I	2	BIO3101 Field Biology I	3
BIO3105 Field Biology II	3	BIO3105 Field Biology II	3
GEG3321 Geographical Approaches to Environmental Issues	3	GEG3321 Geographical Approaches to Environmental Issues	3
BIO4136 Freshwater Ecology	5	BIO4156 Freshwater Ecology	3
Between 7-10 (level 2000, 3000 or 4000) credits from the Faculty of Science, the Faculty of Engineering or in GEG	7-10	Between 6-9 (level 2000, 3000 or 4000) credits from the Faculty of Science, the Faculty of Engineering or in GEG	6-9
B) Global Change:		B) Global Change:	
GEG2304 Climatology	3	GEG2304 Climatology	3
GEG3102 Hydrology	3	GEG3102 Hydrology	3
GEO2334 Quaternary Geology and Climate Change	3	GEO2334 Quaternary Geology and Climate Change	3
Nine credits from:		Nine credits from:	
GEG3105 Remote Sensing	3	GEG3105 Remote Sensing	3
GEG4102 Drainage Basin Processes and Environmental Change	3	GEG4102 Drainage Basin Processes and Environmental Change	3
GEG4103 Northern Hydrology	3	GEG4103 Northern Hydrology	3
GEG4120 GIS and Numerical Spatial Analysis	3	GEG4120 GIS and Numerical Spatial Analysis	3
GEG4304 Microclimatology	3	GEG4304 Microclimatology	3
GEG4516 Palynologie	3	GEG4516 Palynologie	3
GEO4332 Permafrost Geomorphology	3	GEO4332 Permafrost Geomorphology	3
Eight credits (level 2000,3000 or 4000) from the Faculty of Science, the Faculty of Engineering or in GEG	8	Six credits (minimum) (level 2000,3000 or 4000) from the Faculty of Science, the Faculty of Engineering or in GEG	8
C) Environmental Geochemistry and Ecotoxicology:		C) Environmental Geochemistry and Ecotoxicology:	
BIO2110 Environmental Physiology	3	BIO2110 Environmental Physiology	3
BIO4146 Ecotoxicology	3	BIO4146 Ecotoxicology	3
CHM2116 Laboratory of Environmental Chemistry	2		
CHM2120 Organic Chemistry II	3	CHM2120 Organic Chemistry II	3
CHM2154 Analytical Chemistry	3	CHM2354 Analytical Chemistry	3
CHM2313 Environmental Chemistry	3	CHM2313 Environmental Chemistry	3
GEO3382 Geochemistry	3	GEO3382 Geochemistry	3
GEO4342 Parmafrost Geomorphology	3	GEO4342 Parmafrost Geomorphology	3
Three credits (level 2000,3000 or 4000) from the Faculty of Science, the Faculty of Engineering or in GEG	3	Three credits (level 2000,3000 or 4000) from the Faculty of Science, the Faculty of Engineering or in GEG	3

Twelve credits from the Humanities and Social Science electives	12	Twelve credits from the Humanities and Social Science electives	12
ADM1100 Introduction to Business Management	3	ADM1100 Introduction to Business Management	3
ECO1104 Introduction to Microeconomics	3	ECO1104 Introduction to Microeconomics	3
ECO2110 Microeconomic Analysis of the Public Sector	3	ECO2110 Microeconomic Analysis of the Public Sector	3
ECO2118 Introduction to the Economics of the Environment	3	ECO2118 Introduction to the Economics of the Environment	3
ECO2121 Economics and Globalization	3	ECO2121 Economics and Globalization	3
ENV3101 Legal Context of Environmental Issues	3	ENV3101 Legal Context of Environmental Issues	3
FEM2106 Women in Science and Engineering	3	FEM2106 Women in Science and Engineering	3
GEG2108 Contested places	3	GEG2108 Contested places	3
GEG2305 The Geography of Global Economic System	3	GEG2305 The Geography of Global Economic System	3
GEG2306 Urban Geography	3	GEG2306 Urban Geography	3
GEG3302 Natural Resource Management	3	GEG3302 Natural Resource Management	3
GEG3313 Planning Methodology	3	GEG3313 Planning Methodology	3
GEG4110 Industrial Location and Environment	3	GEG4110 Industrial Location and Environment	3
GEG4118 Environmental Impact Assessment	3	GEG4118 Environmental Impact Assessment	3
GEG4119 Resource Management: Coastal and Shoreline Environments	3	GEG4119 Resource Management: Coastal and Shoreline Environments	3
HIS2129 Technology, Society and Environment since 1800	3	HIS2129 Technology, Society and Environment since 1800	3
LSR2121 Recreation and Environmental Quality	3	LSR2121 Recreation and Environmental Quality	3
LSR3105 Recreation Resources Conservation	3	LSR3105 Recreation Resources Conservation	3
PHI2396 Bioethics	3	PHI2396 Bioethics	3
PHI2398 Environmental Ethics	3	PHI2398 Environmental Ethics	3
PHI3394 Philosophy of Science	3	PHI3394 Philosophy of Science	3
POL1103 Governance and Society	3	POL1103 Governance and Society	3
POL2201 Canadian Politics	3	POL2201 Canadian Politics	3
POL4532 Environnement, écologie et politique au Canada	3	POL4532 Environnement, écologie et politique au Canada	3
SOC2105 Introduction to Social Ecology	3	SOC2105 Introduction to Social Ecology	3
SOC3105 Environmental Sociology	3	SOC3105 Environmental Sociology	3
* Science, Engineering and GEG electives:		* Science, Engineering and GEG electives:	
BIO3124 General Microbiology	3	BIO3124 General Microbiology	3
BIO3126 General Microbiology Laboratory	3	BIO3126 General Microbiology Laboratory	3
BIO3914 BIO3924 Biology of Algae and Fungi	4 3	BIO3914 BIO3924 Biology of Algae and Fungi	3 3
BIO4101 Pesticides and the Environment	3	BIO4101 Pesticides and the Environment	3
CHG4303 Hazardous Waste Control	3	CHG4303 Hazardous Waste Control	3
CHG4355 Science and Technology of Pulp and Paper	3	CHG4355 Science and Technology of Pulp and Paper	3
CHG4371 Properties and Treatment of Particulate Wastes-Sludges	3	CHG4371 Properties and Treatment of Particulate Wastes-Sludges	3
CHG4372 Polymers in the Environment	3	CHG4372 Polymers in the Environment	3
CHG4377 Risk Assessment and Hazard Analysis	3	CHG4377 Risk Assessment and Hazard Analysis	3
or		or	
GEG4118 Environmental Impact Assessment	3	GEG4118 Environmental Impact Assessment	3
CHG4381 Introduction to Biochemical Engineering	3	CHG4381 Introduction to Biochemical Engineering	3
CHG4385 Adsorption Separations for Environmental Applications	3	CHG4385 Adsorption Separations for Environmental Applications	3
CHM3125 Polymer and Applied Chemistry	3	CHM4155 Polymer and Applied Chemistry	3
CHM4315 Advanced Analytical Chemistry	3	CHM4315 Advanced Analytical Chemistry	3
CHM4380 Principles of Instrumentation and Measurement	3	CHM4380 Principles of Instrumentation and Measurement	3
CVG2234 CVG2132 Fundamentals of Environmental Engineering	4 3	CVG2234 CVG2132 Fundamentals of Environmental Engineering	3 3
GEG3104 Methods of Geographical Research	3	GEG3104 Methods of Geographical Research	3
GEG3107 Geography of Polar Regions	3	GEG3107 Geography of Polar Regions	3
GEG3110 Restructuring of Urban and Regional Systems	3	GEG3110 Restructuring of Urban and Regional Systems	3
GEG3114 Biogeography	3	GEG3114 Biogeography	3
GEG3311 Political Geography	3	GEG3311 Political Geography	3
GEG4100 Glaciology	3	GEG4100 Glaciology	3
GEG4102 Drainage Basin Processes and Environmental Change	3	GEG4102 Drainage Basin Processes and Environmental Change	3

GEG4103 Northern Hydrology	3	GEG4103 Northern Hydrology	3
GEG4105 GIS in Environmental Research	3	GEG4105 GIS in Environmental Research	3
GEG4120 GIS and Numerical Spatial Analysis	3	GEG4120 GIS and Numerical Spatial Analysis	3
GEG4303 Urbanization and Environment in the Third World	3	GEG4303 Urbanization and Environment in the Third World	3
GEO4341 Advanced Physical Hydrogeology	3	GEO4341 Advanced Physical Hydrogeology	3
GEO4342 Groundwater Geochemistry	3	GEO4342 Groundwater Geochemistry	3
GEO4382 Advanced Geochemistry	3	GEO4382 Advanced Geochemistry	3
GEO4354 Quantitative Analysis in Geology	3	GEO4354 Quantitative Analysis in Geology	3
MAT3377 Sampling and Surveys	3	MAT3377 Sampling and Surveys	3
MIC5500 Pathogens and the Environment	3	MIC5500 Pathogens and the Environment	3