<b>Honours in Environmental Science</b>
(129 credits)

## Honours in Environmental Science (120 credits) Program abolished

(12) (101115)		Program abolished	
Requirements 2003-2005		New course codes 2006	
Compulsory credits in first-year Suggested course stream for full-time students	<del>43</del>	Compulsory credits in first-year Suggested course stream for full-time students	39
Fall:		Fall:	
BIO1120 Introduction to Organismal Biology CHM1310 Principles of Chemistry ENG1100 Workshop in Essay Writing or	<del>4</del> <del>4</del> 3	BIO1130 Introduction to Organismal Biology CHM1311 Principles of Chemistry ENG1100 Workshop in Essay Writing or	3 3 3
ENG1112 Technical Report Writing GEO1115 Introduction to Earth Materials MAT1320 Calculus I PHY1301 Principles of Physics I	3 3 3 3	ENG1112 Technical Report Writing GEO1115 Introduction to Earth Materials MAT1320 Calculus I PHY1321 Principles of Physics I	3 3 3 3
Winter:		Winter:	
BIO1110 Introduction to Cell Biology CHM1320 Organic Chemistry I EVS1101 Introduction to Environmental Science GEG1302 Society and Environment GEO1111 Introduction to Earth Systems MAT1323 Calculus and Matrix Algebra	4 4 3 3 3 3	BIO1140 Introduction to Cell Biology CHM1321 Organic Chemistry I EVS1101 Introduction to Environmental Science GEG1302 Society and Environment GEO1111 Introduction to Earth Systems	3 3 3 3
PHY1302 Principles of Physics II	3	MAT1332 Calculus for the Life Sciences II PHY1322 Principles of Physics II	<b>3</b> 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 CHM2352 Descriptive Inorganic Chemistry EVS3101 Environmental Issues EVS4000 Seminar EVS4009 Research Project or *Nine credits from the Science and Engineering electives GEG2320 Introduction to Digital Cartography and GIS GEO2307 Environmental Geology GEO3342 Introduction to Hydrogeology MAT2378 Probability and Statistics for the Natural Scienc Winter:	4 3 3 2 9 3 3 es 3	BIO2129 Ecology CHM2353 Descriptive Inorganic Chemistry EVS3101 Environmental Issues EVS4001 Seminar EVS4009 Research Project or *Nine credits from the Science and Engineering electives GEG2320 Introduction to Digital Cartography and GIS GEO2307 Environmental Geology GEO3342 Introduction to Hydrogeology MAT2378 Probability and Statistics for the Natural Sciences Winter:	3 3 3 3 9
	2		2
BIO3117 Ecosystem Ecology EVS3120 Environmental Microbiology EVS4910 Field Course in Environmental Science BIO4118 Applied Biostatistics or	3 4 -5	BIO3117 Ecosystem Ecology EVS3120 Environmental Microbiology EVS4010 Field Course in Environmental Science BIO4158 Applied Biostatistics or	3 3 3 3
GEO3152 Geological Data Analysis	<del>-5</del>	GEO3352 Geological Data Analysis	3

Twenty six credits from A, B or C	<del>26</del>	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: <del>BIO2125</del> Animal Form and Function	<del>-5</del>	One of the following two:  BIO2135 Animal Form and Function	3
or	<del>-)</del>	or	3
BIO2127 Introduction to Plant Science: Biodiversity to Biotechnology	<del>-5</del>	BIO2137 Introduction to Plant Science: Biodiversity to Biotechnology	3
One of the following two:	2	One of the following two:	2
GEO2113 Paleontology or	3	GEO2113 Paleontology or	3
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 GEG3321 Geographical Approaches to Environmental	3	BIO3105 Field Biology II GEG3321 Geographical Approaches to Environmental	3
Issues	3	Issues	3
BIO4136 Freshwater Ecology	<del>-5</del>	BIO4156 Freshwater Ecology	3
Between 7-10 (level 2000, 3000 or 4000) credits from the Faculty of Science, the Faculty of Engineering or in Gl	<del>7-10</del> EG	<b>Between 6-9</b> (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: GEG3105 Remote Sensing	3	Nine credits from: GEG3105 Remote Sensing	3
GEG4102 Drainage Basin Processes and Environmental	3	GEG4102 Drainage Basin Processes and Environmental	3
Change		Change	
GEG4103 Northern Hydrology	3	GEG4103 Northern Hydrology	3
GEG4120 GIS and Numerical Spatial Analysis	3	GEG4120 GIS and Numerical Spatial Analysis	3
GEG4304 Microclimatology GEG4516 Palynologie	3	GEG4304 Microclimatology GEG4516 Palynologie	3
GEO4316 Paryllologie 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 GEO	<del>-8</del>	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 CHM2313 Environmental Chemistry	3	CHM2354 Analytical Chemistry 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 GEO	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				
ADMI 100 Introduction to Business Management COC1101 Introduction to Microeconomics 3 ECOC1101 Microeconomic Analysis of the Public Sector 5 ECO1101 Microeconomic Analysis of the Public Sector 5 ECO1101 Microeconomic Analysis of the Public Sector 5 ECO1118 Introduction to Microeconomics 8 ECO2118 Introduction to Microeconomics 9 ECO2118 Introduction to Microeconomics 9 ECO2118 Introduction to Microeconomics 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to the Economics of the Environmental Sucs 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomics Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO2118 Introduction to Microeconomic Analysis of the Public Sector 9 ECO212 Introduction to Microeconomic Analysis of the Public Sector 9 ECO212 Introduction to Microeconomic Analysis of the Public Sector 9 ECO212 Introduction to Microeconomic Sector 9 ECO212 Introduction to Bushalia Sector 9 Sector 9 ECO212 Introduction Sector 9 Sect				
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* Science, Engineering and GEG electives:  * Science and Microbiology  \$ BIO3124 General Microbiology Laboratory  \$ 3 BIO3125 General Microbiology Laboratory  \$ 3 BIO3126 General Microbiology  \$ 4 BiO3924 Biology of Algae and Fungi  \$ 3 BIO3126 General Microbiology  \$ 4 BiO3924 Biology of Algae and Fungi  \$ 3 CHG4303 Hazardous Waste Control  \$ 4 CHG4303 Hazardous Waste Control  \$ 5 CHG4375 Science and Technology of Pulp and Paper  \$ 6 CHG4371 Properties and Treatment of Particulate Wastes-Sludges  \$ 6 CHG4371 Properties and Treatment of Particulate Wastes-Sludges  \$ 6 CHG4372 Polymers in the Environment  \$ 7 CHG4377 Risk Assessment and Hazard Analysis  \$ 7 CHG4377 Risk Assessment and Hazard Analysis  \$ 7 CHG4381 Introduction to Biochemical Engineering  \$ 7 CHG4385 Adsorption Separations for Environmental  \$ 7 CHG4385 Adsorption Separations for Environmental  \$ 7 CHG4385 Adsorption Separations for Environmental  \$ 7 CHM4315 Polymer and Applied Chemistry  \$ 8 CHM4315 Polymer and Applied Chemistry  \$ 9 CHM4380 Principles of Instrumentation and Measurement  \$ 9				
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