

## ***Bachelor of Science (Environmental Science) – Program Requirements***

The following course map outlines the program requirements for the Honours Bachelor of Science (B.Sc. HON) in Environmental Science:

<i>Year</i>	<i>Credit Weight</i>	<i>Course Code</i>	<i>Course Name</i>
<b>Year 1</b>	3	ENVS 1006*	Introduction to Environmental Science
	3	BIOL 1506	Biology I
	3	BIOL 1507	Biology II
	3	CHMI 1006	Chemistry I
	3	CHMI 1007	Chemistry II
	3	GEOL 1021	Understanding the Earth: The Planet and its Internal Processes
	3	MATH 1036 or MATH 1057	Calculus I or Linear Algebra I
	3	PHIL 1116	Critical Thinking
	6		Electives from Group I (Humanities) and/or Group II (Social Sciences)
<b>Year 2</b>	3	BIOL 2056	Principles of Scientific Inquiry
	3	CHMI 2426	Organic Chemistry I
	3	ENVS 2126	Experimental Design and Statistical Analysis
	3	GEOG 1026	Introduction to Physical Geography
	3	GEOG 2017	Introduction to GIS
	3		Closed elective from Group A
	3		Closed elective from Group B
	9		Electives, at least 6 credits from Group I (Humanities) and/or Group II (Social Sciences)
<b>Year 3</b>	3	BIOL 3396	Ecology
	3	CHMI 3016	Biochemistry I
	3	ENVS 3106	Pollution
	3	ENVS 3206	Environmental Chemistry
	3	ENVS 3456	Environmental Science Internship I
	3	GEOG 3307	Indigenous Knowledge in Natural Resource Management
	6		Closed electives from Group A
	6		General electives
<b>Year 4 Honours Option</b>	6	ENVS 4105	Honours Thesis
	6		Closed electives from Group A or B, 4000 series; at least 3 credits from Group A
	9		Closed electives from Group A or B, 3000/4000 series; at least 6 credits from Group A
	9		General electives

\*minimum grade of 60% required

A non-honours option is available for students who wish to complete an internship instead of an honours thesis. The program requirements are identical to the honours program with the exception of year 4. The program requirements for year 4 of the non-honours program are outlined below:

<i>Year</i>	<i>Credit Weight</i>	<i>Course Code</i>	<i>Course Name</i>
<b>Year 4 Non - Honours Option</b>	3	ENVS 4456	Environmental Science Internship II
	9		Closed electives from Group A or B, 4000 series; at least 6 credits from Group A
	9		Closed electives from Group A or B, 3000/4000 series; at least 6 credits from Group A
	9		General electives

## Environmental Science Closed Electives

### Group A

ENVS 3596	Limnology
ENVS 3626	Epidemiology
ENVS 3906	Special Topics in Environmental Science I
ENVS 3907	Special Topics in Environmental Science II
ENVS 4806	Biotechnology
ENVS 4696	Toxicology
ENVS 4706	Soil Science
ENVS 4906	Advanced Topics in Environmental Science I
ENVS 4907	Advanced Topics in Environmental Science II
BIOL 2126	Cell Biology
BIOL 3977	Conservation Biology
BIOL 4016	Field Studies in Biology
BIOL 4306	Aquatic Biology
BIOL 4506	Invasive Species Biology
CHMI 2357	Organic Chemistry II
CHMI 3017	Biochemistry II
CHMI 3996	Analytical Chemistry
PHYS 1006	Introductory Physics I
PHYS 1007	Introductory Physics II

### Group B

ECON 2056	Economics of Natural Resources
ECON 2057	Environmental Economics and Policies
JURI 2316	Environmental Law
POLI 3756	Politics of the Environment
SOCI 3227	Environmental Sociology
BIOL 2216	Principles of Environmental Ethics
BIOL 2217	Topics in Environmental Ethics
GEOL 1022	Understanding the Earth: The Earth's Crust, Rocks and Minerals
GEOG 1027	Introduction to Human Geography
GEOG 2106	Geomorphology I
GEOG 2107	Geomorphology II
GEOG 2996	The Great Lakes: Resources, People, and the Environment
GEOG 3076	Advanced Geographic Information Systems (GIS)
GEOG 3037	Remote Sensing of the Environment
GEOG 4296	Impact Assessment and Resources Management
GEOG 4407	Natural Resources & the Environment: Policy and Practice