

E N V I R O N M E N T A L S T U D I E S P R O G R A M

ENSC-M-BSH

**MAJOR PROGRAM REQUIREMENTS
2011/2012**

Advisors: Dr. Allison Goebel, BioSciences Rm. 3125, 533-6000, ext. 77660, goebela@queensu.ca

The program consists of three parts, totaling 72.0 units as described below and 48.0 elective units to total 120.0 units. Some courses have prerequisites which must be taken.

Students are advised to complete at least 15 units from the core and integrative science and supporting courses outlined below in their first year. Deferring 100-level courses to the last year is strongly discouraged.

Core Science & Social Science Courses: 33 units	Completed
3.0 units in BIOL 111(Ecology and the Environment) or BIOL 102 (Intro. Biology of Cells)	
6.0 units from (GPHY 101 (Human Geography) and 102(Earth System Science)	
3.0 units in GEOL 104 (The Dynamic Earth)	
6.0 units in ENSC 201(Environmental Toxicology) and ENSC 301 (Environmental Assessment)	
3.0 units in ENSC 203 (Explorations in Environmental Studies)	
3.0 units in ENSC 390 (Sustainability)	
3.0 units from PHIL 154 (Introductory Philosophy of Science) or PHIL 293 (Humans and the Natural World) or PHIL 493 (Ethics and the Environment) or RELS 235 (Religion and Environment)	
6.0 units from ENSC 430 (Honours Projects in Environmental Sustainability) or ENSC 501 or ENSC 502	
Option Courses: 27 units	
3.0 units in GEOL	
3.0 units from GPHY 210(Geographical Perspectives on Global Change) or GPHY 304(Arctic and Periglacial Environments) or GPHY 306(Natural Environmental Change) or GPHY 314 (Climatic Change)	
12.0 units of ENSC Integrative Science (with a minimum of 6.0 at 300 level or above) from BIOL 103(Introductory Biology of Organisms), BIOL 201(Diversity of Life I), BIOL 202 (Diversity of Life II), BIOL 335(Limnology and Aquatic Ecology), GEOL 106(Environmental Geology and Natural Hazards), GEOL 107(History of Life), GEOL 200(Oceanography), GPHY 304(Arctic and Periglacial Environments), GPHY 306 (Natural Environmental Change), GPHY 314(Climatic Change), GPHY 318(Biogeography), GPHY 418(Landscape Ecology), ENSC 307(Marine Environmental Issues), ENSC 320 (Wildlife Issues in a Changing World), ENSC 325(Ecotoxicology), ENSC 407(Global Water Issues), ENSC 471(Environmental Analysis Methods), ENSC 480(Special Topics in Environmental Science), ENSC 481(Special Topics in Environmental Science II)	3.0 – 3.0 – 3.0 – 3.0 –
9.0 units of ENSC Integrative Social Science and Humanities from ENSC 200(Environmental History), ENSC 290(Intro. To Ecological Economics) or ECON 290(Intro. to Environmental Economics), ENSC 305(Environmental Sociology), ENSC 310(Environmental Policy), ENSC 315(Global Food Security, Agriculture and Environment), ENSC321(Environmental Justice), ENSC 420(Gender and Environments), ENSC 482(Special Topics in Environmental Studies), ENSC 490(The Economics of Sustainable Development)	3.0 – 3.0 – 3.0 –
Supporting Courses: 12 units	
6.0 units in CHEM 112 or 116	
6.0 units in MATH or STAT at the 100-level or above	