

PHYSICAL SCIENCES STREAM, Honours BSc Environmental Science - 120 credits		
FACULTY OF SCIENCE AND ENGINEERING GENERAL EDUCATION REQUIREMENT (MUST BE SELECTED FROM APPROVED GENERAL EDUCATION COURSE LIST)		
12 general education credits (refer to General Education Requirements in the Faculty of Science and Engineering Regulations Governing Undergraduate Degree Requirements section, http://science.yorku.ca/gened-bsc.html).	Course Number	Credit
<i>Total credits for this section:</i>		<i>/12</i>
1000 LEVEL REQUIREMENT		
Computer Use for the Natural Sciences SC/COSC 1540 3.0, Applied Calculus I *SC/MATH 1013 3.0, Applied Calculus II *SC/MATH 1014 3.0, Applied Linear Algebra *SC/MATH 1025 3.0, Physical Geography *SC/GEOG 1400 6.0, Chemical Structure SC/CHEM 1000 3.0, + Chemical Dynamics SC/CHEM 1001 3.0, Physics SC/PHYS 1010 6.0 OR Physical Science 1410 6.0		
<i>Total credits for this section:</i>		<i>/30</i>
2000 LEVEL REQUIREMENT		
The Hydrosphere SC/GEOG 2400 6.00. and Introductory Statistical Analysis in Geography SC/GEOG 2420 3.0		<i>/9</i>
6 credits from Introduction to Vegetation and Soils SC/GEOG 2500 3.0 OR SC/GEOG Geomorphology I 2600 3.0 OR Geomorphology II SC/GEOG 2610 3.00		<i>/6</i>
Basic Inorganic Chemistry SC/CHEM 2030 3.0, Introductory Meteorology LE/ESSE 2010 3.0, Introduction to Continuum Mechanics LE/ESSE 2470 3.0 [2470 4.0], Applied Multivariate and Vector Calculus SC/MATH 2015 3.0, Differential Equations SC/MATH 2270 3.0, Electricity and Magnetism SC/PHYS 2020 3.0		<i>/18</i>
<i>Total credits for this section:</i>		<i>/33</i>
3000/4000 LEVEL SCIENCE GEOGRAPHY REQUIREMENT		
6 credits from Terrestrial Ecosystems SC/GEOG 3200 3.0, Biogeography SC/GEOG 3500 3.0 (cross-listed to SC/BIOL 3500), Laboratory Analysis of Ecological Materials SC/GEOG 4180 4.0, Water Quality and Stream Ecosystems SC/GEOG 4200 3.0, Northern Forest Environments SC/GEOG 4500 3.0		<i>/6</i>
6 credits from Climatology of High Latitudes SC/GEOG 4205 3.0, Hydrometeorology SC/GEOG 4210 3.0, Dynamics of Snow and Ice SC/GEOG 4310 3.0, Physical Hydrology and Water Resources SC/GEOG 4400 3.0, Rivers: Environment and Process SC/GEOG 4600 3.0		<i>/6</i>
3 credits of Geography Field Courses, from SC/GEOG 3540 OR SC/GEOG 4541		<i>/3</i>
9 additional from the following: Geoinformatics SC/GEOG 2340 3.0, Geomorphology II SC/GEOG 2610 3.0, Geoinformatics: GIS I SC/GEOG 3340 3.0. Terrestrial Ecosystems SC/GEOG 3200 3.0, Morphogenesis of Soils SC/GEOG 3360 3.0, Geoinformatics: Remote Sensing I SC/GEOG 3440 3.0, Methods of Sediment SC/GEOG 3510 3.0, Field Studies in Physical Geography SC/GEOG 3540 3.0, Disaster! Earth's Extreme Events SC/GEOG 3700 3.0, Physical Geography of the City SC/GEOG 3900 3.0, Honours Thesis SC/GEOG 4000 6.0 (only thesis topics in physical geography are eligible for science credit), Ecological Climatology SC/GEOG 4215 3.0, Directed Reading SC/GEOG 4290 3.0, Directed Reading SC/GEOG 4290 6.0, Geoinformatics: GIS II SC/GEOG 4340 3.0, Desert Ecosystems SC/GEOG 4410 3.0, Geoinformatics: Remote Sensing II SC/GEOG 4440 3.0, Advanced Field Studies in Physical Geography SC/GEOG 4541 3.0		<i>/9</i>
<i>Total credits for this section:</i>		<i>/24</i>
3000/4000 LEVEL EATS REQUIREMENT		
9 credits from Atmospheric Radiation and Thermodynamics LE/ESSE 3030 3.0, Introductory Atmospheric Chemistry LE/EATS 3130 3.0 (cross listed as SC/CHEM 3060 3.0 [3160 3.0]), Remote Sensing of the Earth's Surface LE/ESSE 4220 3.0		<i>/9</i>
6 credits from Atmospheric Dynamics LE/ESSE 3040 3.0, Synoptic Meteorology I LE/ESSE 4050 3.0, [4050 6.0], Synoptic Meteorology II LE/ESSE 4051 3.0 [4050 6.0], Cloud Physics and Radar Meteorology LE/ESSE 4120 3.0, Atmospheric Dynamics LE/ESSE 4130 3.0, Numerical Weather Prediction LE/ESSE 4140 3.0, Climate and Climate Change LE/ESSE 4160 3.0, Remote Sensing of the Atmosphere LE/ESSE 4230 3.0, Storms and Weather Systems LE/ESSE 4240 3.0, Atmospheric Science Topics LE/ESSE 4300 3.0, Numerical Methods I SC/MATH 3241 3.0		<i>/6</i>
<i>Total credits for this section:</i>		<i>/15</i>
OTHER COURSES REQUIREMENT		
Additional elective credits as require to satisfy minimum credit values		
<i>Total credits for this section:</i>		<i>/6</i>
TOTAL CREDITS:		<i>/120</i>

- Notes: o to graduate in Honours requires a cumulative credit-weighted grade-point average of at least 5.0 (C+) overall;
o any course substitutes must be approved in writing by the Environmental Science Coordinator
[.] former course numbers OR requirements
* should be taken in Year 1 to satisfy prerequisite requirements for 2000-level required courses
Note: **At least 12 credits from the major courses (EATS OR GEOG) must be at the 4000 level.**
Upper level requirement: A minimum of 42 credits at the 3000 level OR higher.