

## Minor in Environmental Geosciences

### 1. Total Number of Required Credits: 24 Credits

### 2. Required Courses (with credit attached and any prerequisites)

#### I. Basic Earth System Science background (6 credits):

Course Codes/Course Title	Credits	Prerequisites
GEOL 1006 – Intro to Geology I	3	NONE
ENSC 1406 –Earth’s Environmental Systems	3	NONE

### 3. Elective Courses (with credit attached and any prerequisites)

#### II. Additional Earth Sciences skills (6 credits from the following list):

Course Codes/Course Title	Credits	Prerequisites
GEOL 1007 – Intro to Geology II	3	GEOL 1006
GEOL 2237 – Sedimentary, Igneous & Metamorphic Rocks	3	GEOL 1006
GEOL 2021 – Geology of Earth Resources	3	GEOL 1006/1007 or GEOL 1021/1022 or permission from instructor
GEOL 2022 – The Dynamic Earth	3	GEOL 1021/1022 OR GEOL 1006/1007 or permission from instructor
GEOL 2046 – Natural Disasters*	3	NONE
GEOL 2106 – Introductory Geomorphology	3	GEOL 1006/1007 or ENSC 1406 or permission from instructor
GEOL 2807 – Geochemistry I	3	GEOL 1007, GEOL 2126 and CHMI 1006/1007
GEOL 2066 – Near-surface Geophysical methods	3	6 credits in 1 <sup>st</sup> yr science courses, PHYS 1006 or 1206 are recommended
GEOL 4226 – Pleistocene and Glacial Geology	3	GEOL 3217 or permission from instructor

\* The course is in the calendar and will be offered as an Envision course.

#### III. Additional Environmental Science Electives (9 credits from the following list):

Course Codes/Course Title	Credits	Prerequisites
BIOL 3056 – Mineral Exploitation and the Biosphere	3	BIOL 2356 or permission from instructor

BIOL 3376 – Restoration and Ecology I – concepts and principles	3	BIOL 2356 or permission from instructor
GEOL 3136 – Watershed Hydrology	3	ENSC 1406 or GEOL 1006/1007 and at least one 2 <sup>nd</sup> year science course.
GEOL 3397 – Introductory Soil Science	3	GEOL 1006/1007; and CHMI 1041 or gr. 12/4U chemistry or permission from department.
GEOL 3417 – Oceanography	3	NONE
GEOL 3811 – Chemistry of Earth Materials	3	GEOL 1021/1022 OR GEOL 1006/1007 or permission from instructor
BIOL 4076 – Ecosystem Ecology	3	BIOL 2356 or permission from instructor.
BIOL 4396 – Current issues in Environmental Sustainability	3	BIOL 2356 or permission from instructor.
GEOL 4406 – Quaternary Paleoenvironmental Reconstruction	3	ENSC 1406 or GEOL 1006/1007
GEOL 4416 – Global Change	3	NONE
GEOL 4706 – Hydrogeology	3	CHEM 1006/1007, MATH 1012/1036

**IV. Communications or Ethics Skills (3 credits from the following list):**

<b>Course Codes/Course Title</b>	<b>Credits</b>	<b>Prerequisites</b>
PHIL 2217 – Environmental Ethics	3	NONE
ENGR 1016 – Engineering Communications	3	NONE
ENVI 1507 – Communication skills, Ethics, and Environmental Issues	3	NONE
COMM 1206 EL – Business communications	3	NONE
ENGL 1706 – Intro to writing English studies I	3	NONE
COST 2446 EL – The Dynamics of Interpersonal Communications I	3	NONE
COST 2447 EL – The Dynamics of Interpersonal Communications II	3	NONE
ENGL 3536 – Environmental Communications	3	NONE
ENGL 3556 – Principles and Practices of Workplace Communications	3	NONE