

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 st 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 |

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| 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 nd 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):

| Course Codes/Course Title | Credits | Prerequisites |
|--|----------------|----------------------|
| 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 |