ENVIRONMENTAL SCIENCE, BACHELOR OF SCIENCE WITH A CONCENTRATION IN EARTH SCIENCES

The earth sciences concentration is designed to prepare students for a career in environmental geology.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENVN 2010</td>
<td>ENVIRONMENTAL PROBLEMS AND SOLUTIONS</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1330</td>
<td>ENVIRONMENTAL BIOLOGY</td>
<td>3</td>
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<tr>
<td>ENVN/BIOL/GEOL/PA 4820</td>
<td>INTRODUCTION TO ENVIRONMENTAL LAW &amp; REGULATIONS</td>
<td>3</td>
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<tr>
<td>ENVN/GEOG/GEOL/BIOL 4610</td>
<td>ENVIRONMENTAL MONITOR AND ASSESSMENT</td>
<td>3</td>
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<tr>
<td>CHEM 1010</td>
<td>CHEMISTRY IN THE ENVIRONMENT AND SOCIETY</td>
<td>3</td>
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<tr>
<td>or CHEM 3030</td>
<td>ENVIRONMENTAL CHEMISTRY</td>
<td></td>
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<tr>
<td>ENVN/BIOL 4800</td>
<td>INTERNSHIP ENVIRONMENTAL MANAGEMENT AND PLANNING</td>
<td>3</td>
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Also required:

- An approved course in statistics
- An approved GIS course

Earth Sciences Concentration requirements:

- GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY 4
- GEOL 4260 PROCESS GEOMORPHOLOGY 3

Select from the following: additional 27 hours of geography/geology courses:

- GEOL 1180 INTRODUCTION TO HISTORICAL GEOLOGY
- GEOL 2300 GEOSCIENCE DATA ANALYSIS AND MODELING
- GEOL 2500 SPECIAL TOPICS IN GEOGRAPHY-GEOLOGY
- GEOL 2600 GEOHYDROLOGY
- GEOL 2750 MINERALOGY
- GEOL 2754 MINERALOGY LABORATORY
- GEOL 2760 IGNEOUS AND METAMORPHIC PETROLOGY
- GEOL 2764 IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY
- GEOL 3300 STRUCTURAL GEOLOGY
- GEOL 3310 STRUCTURAL GEOLOGY FIELD METHODS
- GEOL 3400 INTRODUCTION TO SEDIMENTARY GEOLOGY
- GEOL 4400 GEOPHYSICS
- GEOL 4540 GEOCHEMISTRY
- GEOL 4610 BIOGEOGRAPHY
- GEOL 4630 ENVIRONMENTAL REMOTE SENSING

Select one of the following chemistry sequences: 4-5

**Sequence One:**

- CHEM 1140 & CHEM 1144 FUNDAMENTALS OF COLLEGE CHEMISTRY
- CHEM 2210 & CHEM 2214 FUNDAMENTALS OF ORGANIC CHEMISTRY

**Sequence Two:**

- CHEM 1180 & CHEM 1184 GENERAL CHEMISTRY I
- CHEM 1190 & CHEM 1194 GENERAL CHEMISTRY II
- CHEM 2210 & CHEM 2214 FUNDAMENTALS OF ORGANIC CHEMISTRY

Select one of the following physics sequences: 5

**Sequence One:**

- PHYS 1050 & PHYS 1054 INTRODUCTION TO PHYSICS
- PHYS 1110 & PHYS 1154 GENERAL PHYSICS I WITH ALGEBRA
- PHYS 2110 & PHYS 1154 GENERAL PHYSICS I - CALCULUS LEVEL

**Sequence Two:**

- PHYS 1110 & PHYS 1154 GENERAL PHYSICS I WITH ALGEBRA
- PHYS 1154 GENERAL PHYSICS LABORATORY I

Writing in the Discipline

All students are required to take a writing in the discipline course within their major. For the Environmental Science major with a concentration in Earth Science, the writing in the discipline requirement can be fulfilled by completing either ENGL 3980 or ENGR 3000.