# ENVIRONMENTAL EARTH SCIENCE MINOR

The Department Earth & Environmental Sciences (EENS) offers this environmental science minor, which provides students with broad exposure to environmental problems, as well as training in essential problem-solving skills, such as Geographic Information Systems (GIS). The minor is not unlike the GEOL minor, but emphasizes environmental courses in the department.

## Requirements

Course requirements for the environmental earth science minor are given below:

### Foundational Courses

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENS 1300</td>
<td>Earth as a Living Planet</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>EENS 2070</td>
<td>Weather and Climate</td>
<td></td>
</tr>
<tr>
<td>EENS 2080</td>
<td>Extreme Weather</td>
<td></td>
</tr>
<tr>
<td>EENS 2090</td>
<td>Surface Water Hydrology</td>
<td></td>
</tr>
<tr>
<td>EENS 2230</td>
<td>Oceanography</td>
<td></td>
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</tbody>
</table>

### Elective

Select three Environmental Electives at or above the 3000-level

Total Credit Hours

18

### Environmental electives include the following courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENS 3050</td>
<td>Natural Hazards &amp; Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3100</td>
<td>Planetary Geology</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3150</td>
<td>Intro to GIS</td>
<td>4</td>
</tr>
<tr>
<td>EENS 3170</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3180</td>
<td>Making Landscapes</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3190</td>
<td>Earth Materials</td>
<td>4</td>
</tr>
<tr>
<td>EENS 3270</td>
<td>Sedimentation and Strat</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3410</td>
<td>Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3550</td>
<td>Shark Paleobiology</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3600</td>
<td>Science of Climate Change</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3650</td>
<td>Marine Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>EENS 3730</td>
<td>Pathways to Urban Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>EENS 4030</td>
<td>Advanced GIS</td>
<td>3</td>
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<tr>
<td>EENS 4040</td>
<td>Coastal Marine Geology</td>
<td>3</td>
</tr>
<tr>
<td>COLQ 4120</td>
<td>The Grand Canyon</td>
<td>3,4</td>
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<tr>
<td>EENS 4180</td>
<td>Intro Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>EENS 4250</td>
<td>Isotopes in The Environment</td>
<td>3</td>
</tr>
<tr>
<td>EENS 4300</td>
<td>Groundwater Hydrology</td>
<td>3</td>
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<tr>
<td>EENS 4350</td>
<td>Geologic Dating Methods</td>
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<tr>
<td>EENS 4390</td>
<td>Geospatial and Numerical Methods</td>
<td>4</td>
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<tr>
<td>EENS 4370</td>
<td>Independent Study in GIS and Remote Sensing</td>
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</tr>
<tr>
<td>EENS 4380</td>
<td>Remote Sensing for Env Anlys</td>
<td>3</td>
</tr>
<tr>
<td>EENS 4360</td>
<td>Environmental Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>EENS 4440</td>
<td>Introduction to Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>EENS 4840</td>
<td>Earth &amp; Planetary Geophysics</td>
<td>3</td>
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<tr>
<td>EENS 4910</td>
<td>Independent Study</td>
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<tr>
<td>EENS 4990</td>
<td>Honors Thesis</td>
<td>3</td>
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</tbody>
</table>
Students are strongly encouraged to include Remote Sensing and Environmental Geochemistry in their electives.