# Environmental and Sustainable Engineering, Minor

## Degree Requirements (18-19 Hours)

### Required Courses (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECIV 350</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 502</td>
<td>Life Cycle Assessment of Engineered Systems</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### Elective Courses (12-13 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 112 &amp; 112L</td>
<td>General Chemistry II and General Chemistry II Lab</td>
<td>4</td>
</tr>
<tr>
<td>ECHE 372</td>
<td>Introduction to Materials ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 573</td>
<td>Next Energy</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 551</td>
<td>Elements of Water and Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 555</td>
<td>Principles of Municipal Solid Waste Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 558</td>
<td>Environmental Engineering Process Modeling ¹</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 533</td>
<td>Sustainability Projects Course</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 531</td>
<td>Sustainability Management and Leadership Strategies</td>
<td>3-4</td>
</tr>
<tr>
<td>GEOG 321</td>
<td>Sustainable Cities</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 530</td>
<td>Environmental Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEOL/MSCI 335</td>
<td>Processes of Global Environmental Change</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 560</td>
<td>Earth Resource Management</td>
<td>3</td>
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<tr>
<td>GEOL 570</td>
<td>Environmental Hydrogeology ¹</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 575</td>
<td>Numerical Modeling for Earth Science Applications ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Prerequisite requirements not included in the minor that may require additional hours, but may be applied elsewhere in a student's program of study, if applicable.