# WATERSHED MANAGEMENT AND HYDROLOGY CONCENTRATION - ENVIRONMENTAL MANAGEMENT AND PROTECTION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 128</td>
<td>General Chemistry for Agriculture and Life Science II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Survey of Organic Chemistry</td>
<td>5</td>
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<tr>
<td>MATH 162</td>
<td>Calculus for the Life Sciences II</td>
<td>4</td>
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<tr>
<td>NR 420</td>
<td>Watershed Assessment and Protection</td>
<td>4</td>
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<tr>
<td>PHYS 122</td>
<td>College Physics II</td>
<td>4</td>
</tr>
<tr>
<td>SS 321</td>
<td>Soil Morphology</td>
<td>4</td>
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<tr>
<td>SS 440</td>
<td>Forest and Range Soils</td>
<td>4</td>
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<tr>
<td>SS 442</td>
<td>Vadose Zone and Groundwater Processes</td>
<td>4</td>
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**Approved electives**

Select from the following: 8

- BRAE 236  Principles of Irrigation
- BRAE 340  Irrigation Water Management
- BRAE 345  Aerial Photogrammetry and Remote Sensing
- BRAE 435  Drainage
- BRAE 532  Water Wells and Pumps
- ERSC 303  Soil Erosion and Water Conservation
- ERSC 323  Geomorphology
- GEOI 241  Physical Geology Laboratory
- NR 260   Forest Practices and Environmental Protection
- NR 315   Measurements and Sampling in Forested Environments
- NR 339   Internship in Forest and Natural Resources
- NR/CRP 408  Water Resource Law and Policy
- NR 418   Applied GIS
- NR/BIO/SS 421  Wetlands
- NR 475   Sustainable Forest and Environmental Practices
- PHYS 107  Introduction to Meteorology
- SS 431   Digital Soil Mapping
- SS 432   Environmental Soil Physics
- STAT 313  Applied Experimental Design and Regression Models

**Total units** 41

1. If a course is taken to meet a major requirement, it cannot be double-counted as an approved elective for the concentration.

2. Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.