# Watershed Management and Hydrology Concentration - Forestry and Natural Resources

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 128</td>
<td>General Chemistry for Agriculture and Life Science II</td>
<td>4</td>
</tr>
<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>or SS 431</td>
<td>Digital Soil Mapping</td>
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**Approved Electives**

Select from the following:

- BRAE 340 Irrigation Water Management
- BRAE 532 Water Wells and Pumps
- CHEM 312 Survey of Organic Chemistry
- ERSC 303 Soil Erosion and Water Conservation
- ERSC 323 Geomorphology
- ERSC 442 Applied Environmental Groundwater Hydrology
- ERSC 443 Applied Environmental Contaminant Transport
- GEOL 201 Physical Geology
- GEOL 241 Physical Geology Laboratory
- NR 339 Internship in Forest and Natural Resources
- NR 400 Special Problems for Advanced Undergraduates
- NR/CRP 408 Water Resource Law and Policy
- NR 418 Applied GIS
- NR/BIO/SS 421 Wetlands
- NR 422 Stream Measurements and Water Quality Monitoring
- NR 475 Senior Project - Forest Stewardship
- SS 424 Senior Project - Environmental Soil Physics
- SS 431 Digital Soil Mapping
- SS 440 Forest and Range Soils
- STAT 313 Applied Experimental Design and Regression Models

**Total units:** 32

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1. If a course is taken to meet a Major or Support requirement, it cannot be double-counted as an Approved Elective for the concentration.
2. Consultation with an advisor is recommended prior to selecting Approved Electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.