### WATERSHED MANAGEMENT AND HYDROLOGY CONCENTRATION - FOREST AND FIRE SCIENCES

<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>
</tr>
<tr>
<td>NR 363</td>
<td>Undergraduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>NR 420</td>
<td>Watershed Assessment and Protection</td>
<td>4</td>
</tr>
<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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</table>

**Approved Electives**

Select from the following: 4 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BRAE 340</td>
<td>Irrigation Water Management</td>
</tr>
<tr>
<td>BRAE 532</td>
<td>Water Wells and Pumps</td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Organic Chemistry. Fundamentals and Applications</td>
</tr>
<tr>
<td>ERSC 303</td>
<td>Soil Erosion and Water Conservation</td>
</tr>
<tr>
<td>ERSC 423</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>ERSC 442</td>
<td>Applied Environmental Groundwater Hydrology</td>
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<tr>
<td>ERSC 443</td>
<td>Applied Environmental Contaminant Transport</td>
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<tr>
<td>GEOL 201</td>
<td>Physical Geology</td>
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<tr>
<td>GEOL 241</td>
<td>Physical Geology Laboratory</td>
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<tr>
<td>NR 339</td>
<td>Internship in Forest and Natural Resources</td>
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<tr>
<td>NR 400</td>
<td>Special Problems for Advanced Undergraduates</td>
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<tr>
<td>NR/CRP 408</td>
<td>Water Resource Law and Policy</td>
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<tr>
<td>NR 418</td>
<td>Applied GIS</td>
</tr>
<tr>
<td>NR/BIO/SS 421</td>
<td>Wetlands</td>
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<tr>
<td>NR 422</td>
<td>Stream Measurements and Water Quality Monitoring</td>
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<tr>
<td>NR 472</td>
<td>Leadership Practice</td>
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<tr>
<td>NR 475</td>
<td>Senior Project - Forest Stewardship</td>
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<tr>
<td>SS 424</td>
<td>Environmental Soil Physics - Senior Project</td>
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<td>SS 431</td>
<td>Digital Soil Mapping</td>
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<td>SS 440</td>
<td>Forest and Range Soils</td>
</tr>
<tr>
<td>STAT 313</td>
<td>Applied Experimental Design and Regression Models</td>
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</table>

**Total units**: 26

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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.