**NATURAL RESOURCES & ENVIRONMENTAL SCIENCES: ECOSYSTEM STEWARDSHIP & RESTORATION ECOLOGY, BS**

For the degree of Bachelor of Science Major in Natural Resources & Environmental Sciences, Ecosystem Stewardship & Restoration Ecology Concentration

<table>
<thead>
<tr>
<th>Prescribed Courses including Campus General Education</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Composition I and Speech</strong></td>
<td>Hours</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6-7</td>
</tr>
<tr>
<td>RHET 105 &amp; CMN 101</td>
<td>Writing and Research and Public Speaking (or equivalent) (see College Composition I requirement)</td>
</tr>
<tr>
<td>CMN 111 &amp; CMN 112</td>
<td>Oral &amp; Written Comm I and Oral &amp; Written Comm II</td>
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</tbody>
</table>

**Advanced Composition**

Select from campus approved list

<table>
<thead>
<tr>
<th>Cultural Studies</th>
<th></th>
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</thead>
</table>

Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.

<table>
<thead>
<tr>
<th>Foreign Language</th>
<th></th>
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</thead>
</table>

Coursework at or above the third level is required for graduation.

<table>
<thead>
<tr>
<th>Quantitative Reasoning I</th>
<th></th>
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</thead>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Select one of the following:</th>
<th>4-5</th>
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</thead>
</table>

| MATH 220 & MATH 221 & MATH 234                          | Calculus Calculus I Calculus for Business I |

| Quantitative Reasoning II                              | 3-4   |

Select one of the following:

<table>
<thead>
<tr>
<th>Select one of the following:</th>
<th>3-4</th>
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<table>
<thead>
<tr>
<th>Natural Sciences and Technology</th>
<th></th>
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</table>

<table>
<thead>
<tr>
<th>CHEM 102 &amp; CHEM 103</th>
<th>General Chemistry I and General Chemistry Lab I</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CHEM 104 &amp; CHEM 105</th>
<th>General Chemistry II and General Chemistry Lab II</th>
</tr>
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Select one of the following:

<table>
<thead>
<tr>
<th>Select one of the following:</th>
<th>4-5</th>
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</table>

| IB 104 or IB 150 & IB 151                              | Animal Biology Organismal & Evolutionary Biol and Organismal & Evol Biol Lab |

<table>
<thead>
<tr>
<th>Select one of the following:</th>
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<table>
<thead>
<tr>
<th>GGIS 103</th>
<th>Earth’s Physical Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 107</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>College Physics: Mech &amp; Heat</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>University Physics: Mechanics</td>
</tr>
<tr>
<td>MCB 100</td>
<td>Introductory Microbiology</td>
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</table>

<table>
<thead>
<tr>
<th>Humanities and the Arts</th>
<th>6</th>
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Select from campus approved list.

<table>
<thead>
<tr>
<th>Social and Behavioral Sciences</th>
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</table>
ACE 100 Introduction to Applied Microeconomics 3-4
or ECON 102 Microeconomic Principles

Select one additional course from campus approved list. 3-4

**Natural Resources and Environmental Sciences Required (Core)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 102</td>
<td>Introduction to NRES</td>
<td>3</td>
</tr>
<tr>
<td>NRES 201</td>
<td>Introductory Soils</td>
<td>4</td>
</tr>
<tr>
<td>NRES 219</td>
<td>Applied Ecology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 287</td>
<td>Environment and Society</td>
<td>3</td>
</tr>
<tr>
<td>NRES 325</td>
<td>Natural Resource Policy Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>NRES 348</td>
<td>Fish and Wildlife Ecology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 421</td>
<td>Quantitative Methods in NRES</td>
<td>3</td>
</tr>
<tr>
<td>NRES 454</td>
<td>GIS in Natural Resource Mgmt</td>
<td>4</td>
</tr>
<tr>
<td>NRES 466</td>
<td>Integrative Ecosystem Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 285</td>
<td>Field Experience</td>
<td>1-2</td>
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**ACES Required**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ACES 101</td>
<td>Contemporary Issues in ACES</td>
<td>2</td>
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</table>

**Required Concentration**

Concentration prescribed courses. See specific requirements for each concentration listed below. 19-29

**Total Hours** 126

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>NRES 419</td>
<td>Env and Plant Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>NRES 420</td>
<td>Restoration Ecology</td>
<td>4</td>
</tr>
<tr>
<td>NRES 465</td>
<td>Landscape Ecology</td>
<td>3</td>
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</table>

**Concentration Elective Requirements**

Two Ecology Courses 6-7

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 302</td>
<td>Dendrology</td>
<td></td>
</tr>
<tr>
<td>NRES 362</td>
<td>Ecology of Invasive Species</td>
<td></td>
</tr>
<tr>
<td>NRES 415</td>
<td>Native Plant ID and Floristics</td>
<td></td>
</tr>
<tr>
<td>CPSC 431</td>
<td>Plants and Global Change</td>
<td></td>
</tr>
<tr>
<td>IB 452</td>
<td>Ecosystem Ecology</td>
<td></td>
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<tr>
<td>IB 453</td>
<td>Community Ecology</td>
<td></td>
</tr>
<tr>
<td>IB 439</td>
<td>Biogeography</td>
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</table>

One Ecosystem or Management Course 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 401</td>
<td>Watershed Hydrology</td>
<td></td>
</tr>
<tr>
<td>NRES 402</td>
<td>Ecosystem Hydrology and Water Management</td>
<td></td>
</tr>
<tr>
<td>NRES 418</td>
<td>Wetland Ecology &amp; Management</td>
<td></td>
</tr>
<tr>
<td>NRES 427</td>
<td>Modeling Natural Resources</td>
<td></td>
</tr>
<tr>
<td>NRES 429</td>
<td>Aquatic Ecosystem Conservation</td>
<td></td>
</tr>
<tr>
<td>NRES 485</td>
<td>Stream Ecosystem Management</td>
<td></td>
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<tr>
<td>CPSC 437</td>
<td>Principles of Agroecology</td>
<td></td>
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<tr>
<td>CEE 432</td>
<td>Stream Ecology</td>
<td></td>
</tr>
<tr>
<td>IB 361</td>
<td>Ecology and Human Health</td>
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<tr>
<td>IB 451</td>
<td>Conservation Biology</td>
<td></td>
</tr>
<tr>
<td>UP 405</td>
<td>Watershed Ecology and Planning</td>
<td></td>
</tr>
</tbody>
</table>

*Information listed in this catalog is current as of 05/2022*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Concentration-Required Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP 406</td>
<td>Urban Ecology</td>
<td>19-21</td>
</tr>
</tbody>
</table>

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