## MAJOR IN WATERSHED SCIENCE
### HONORS TRACK 1

<table>
<thead>
<tr>
<th>Check or list course sub</th>
<th>YEAR 1</th>
<th>Offered</th>
<th>Sequenced Prerequisites</th>
<th># of credits</th>
<th>AUCC Category</th>
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<td><strong>Biology Selection</strong> – Choose one course from the following:</td>
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<tr>
<td>LIFE 103</td>
<td>Biology of Organisms- Animals and Plants</td>
<td>F, S, SS</td>
<td>LIFE 102</td>
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<tr>
<td>BZ 110/111</td>
<td>Principles of Animal Biology/Lab</td>
<td>F, S, SS</td>
<td>BZ 111: BZ 110 or concurrent registration</td>
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<td>BZ 120</td>
<td>Principles of Plant Biology</td>
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<td><strong>Geology Selection</strong> – Choose one course from the following:</td>
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<td>GEOL 120</td>
<td>Physical Geology</td>
<td>F, S, SS</td>
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<td>3A</td>
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<tr>
<td>GEOL 122</td>
<td>Geology of Our Environment</td>
<td>F, S, SS</td>
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<td>3A</td>
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<td>GEOL 124</td>
<td>Geology of Natural Resources</td>
<td>S</td>
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<tr>
<td>GEOL 150</td>
<td>Physical Geology for Scientists and Engineers</td>
<td>F</td>
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<td><strong>Computer Selection</strong> – Choose one course from the following:</td>
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<td>CS 110</td>
<td>Personal Computing</td>
<td>F, S, SS</td>
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<td>BUS 150</td>
<td>Business Computing Concepts/Applications</td>
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<td><strong>Chemistry Selection</strong> – Choose one lecture and lab from the following:</td>
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<td>CHEM 107/108</td>
<td>Fundamentals of Chemistry/Lab</td>
<td>F, S, SS</td>
<td>MATH 117 or test placement; Lab: CHEM 107 or concurrent registration</td>
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<tr>
<td>CHEM 111/112</td>
<td>General Chemistry I/Lab</td>
<td>F, S, SS</td>
<td>MATH 118 or test placement; satisfactory completion of Chem Prep/ALEKS OR CHEM 105. Lab: CHEM 111 or concurrent registration</td>
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<td><strong>Calculus I Selection</strong> – Choose one course from the following:</td>
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<tr>
<td>MATH 155</td>
<td>Calculus for Biological Scientists I</td>
<td>F, S, SS</td>
<td>MATH 117, MATH 118, MATH 124, MATH 125</td>
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<tr>
<td>MATH 160</td>
<td>Calculus for Physical Scientists I</td>
<td>F, S, SS</td>
<td>MATH 117, MATH 118, MATH 124, MATH 126</td>
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<td><strong>Required Watershed Science course for Spring semester:</strong></td>
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<tr>
<td>ESS 130</td>
<td>System Theory and Information Management</td>
<td>S</td>
<td>CS 110 or BUS 150</td>
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<td>Check or list course sub</td>
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<td>Required courses for Year 2:</td>
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<td>ESS/GR 210</td>
<td>Physical Geography</td>
<td>F</td>
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<td>NR 322</td>
<td>Introduction to GIS</td>
<td>F, S</td>
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<td></td>
<td>SOCR 240</td>
<td>Introduction to Soil Science</td>
<td>F, S</td>
<td>CHEM 107 or 111</td>
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<tr>
<td></td>
<td>WR/GR 304†</td>
<td>Sustainable Watersheds</td>
<td>F, S</td>
<td>AUCC 1B Mathematics</td>
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<td>Calculus II Selection – Choose one course from the following:</td>
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<td></td>
<td>MATH 255</td>
<td>Calculus for Biological Scientists II</td>
<td>F, S</td>
<td>MATH 126 or concurrent reg.; MATH 155</td>
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<td>MATH 161</td>
<td>Calculus for Physical Scientists II</td>
<td>F, S, SS</td>
<td>MATH 124; MATH 160</td>
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<td>Ecology Selection – Choose one course from the following:</td>
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<td>ESS 211</td>
<td>Foundations in Ecosystem Science</td>
<td>S</td>
<td>ESS/GR 210</td>
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<td>LIFE 320</td>
<td>Ecology</td>
<td>F, S</td>
<td>BZ 101 or 104 or 110 or 120 or LIFE 102; MATH 141 or 155 or 160</td>
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<td>PH 121</td>
<td>General Physics I</td>
<td>F, S, SS</td>
<td>MATH 125 or concurrent registration</td>
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<td>PH 141</td>
<td>Physics for Scientists and Engineers</td>
<td>F, S, SS</td>
<td>MATH 126; MATH 155 or 160 or concurrent reg.</td>
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<td>Advanced Writing Selection – Choose one course from the following:</td>
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<td>CO 301B</td>
<td>Writing in the Disciplines-Sciences</td>
<td>F, S, SS</td>
<td>CO 150 or HONR 193</td>
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<td>JTC 300</td>
<td>Professional Technical Communication</td>
<td>F, S, SS</td>
<td>CO 150 or HONR 193</td>
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<td>LB 300</td>
<td>Specialized Professional Writing</td>
<td>F, S, SS</td>
<td>CO 150 or HONR 193</td>
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<td>Sequenced Prerequisites</td>
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<td>SOCR 470</td>
<td>Soil Physics</td>
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<td>SOCR 240</td>
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<td>SOCR 471</td>
<td>Soil Physics Laboratory</td>
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<td>SOCR 470 or concurrent registration</td>
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<td>AREC 342</td>
<td>Water Law, Policy, and Institutions</td>
<td>S</td>
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<td>ESS 330</td>
<td>Quantitative Reasoning</td>
<td>S</td>
<td>MATH 155 or 160; STAT 301 or 307; ESS 211</td>
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<td></td>
<td>WR 418††</td>
<td>Land Use and Water Quality</td>
<td>S</td>
<td>Any Chemistry class with lab</td>
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<td></td>
<td>WR 419††</td>
<td>Water Quality Lab</td>
<td>S</td>
<td>Concurrent reg. in WR 418</td>
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<td>Watershed Course Selection*</td>
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<td>Statistics Selection – Choose one course from the following:</td>
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<td>STAT 301</td>
<td>Intro to Statistical Methods</td>
<td>F, S, SS</td>
<td>MATH 117 or higher</td>
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<td>STAT 315</td>
<td>Statistics for Engineers and Scientists</td>
<td>F, S, SS</td>
<td>MATH 161 or 255</td>
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<td>Check or list course sub</td>
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<td>Offered</td>
<td>Sequenced Prerequisites</td>
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<td>AUCC Category</td>
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<td>Required courses for Year 4:</td>
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<td>WR 416††</td>
<td>Land Use Hydrology</td>
<td>F</td>
<td>SOCR 240 or Geology; Statistics; Physics</td>
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<td>WR 417††</td>
<td>Watershed Measurements</td>
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<td>Concurrent reg. in WR 416</td>
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<td>WR 486††</td>
<td>Watershed Practicum</td>
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<td>Concurrent reg. in 416/417</td>
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<td>WR 440††</td>
<td>Watershed Problem Analysis (Capstone course)</td>
<td>S</td>
<td>NR 322 or NR 319; WR 416; WR 418</td>
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<td>Watershed Course Selection*</td>
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<td>Snow/Climate Selection – Choose one course from the following:</td>
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<td>WR 474††</td>
<td>Snow Hydrology</td>
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<td>SOCR 322</td>
<td>Principles of Microclimatology</td>
<td>S</td>
<td>3 credits of Physics</td>
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<td>MOUNTAIN CAMPUS SUMMER FIELD PROGRAM – Recommended summer between Year 2 and Year 3</td>
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<td>NR 220</td>
<td>Natural Resource Ecology &amp; Measurements</td>
<td>SS</td>
<td>BZ 120 or similar, MATH 118</td>
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<td>Check or list course sub</td>
<td>OTHER REQUIRED COURSEWORK – To be completed at any time in major program</td>
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<td>Arts and Humanities</td>
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<td>Social and Behavioral Sciences</td>
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<td>Historical Perspectives</td>
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<td>Global and Cultural Awareness – HONR 293 Recommended Option</td>
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<td>Open Electives – Non-directed electives of students’ choice; can be used toward a minor</td>
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<td>* Watershed Course Selection – Choose from the list of approved courses selected for Watershed students. Please see the ESS Department website or check with your Watershed Academic Success Coordinator or Faculty Mentor for the most up-to-date course list.</td>
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<td>HONR 192</td>
<td>First Year Honors Seminar</td>
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<td>HONR 193</td>
<td>Honors Seminar</td>
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<td>HONR 192</td>
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<td>Choose one course during Year 2:</td>
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<td>HONR 292</td>
<td>Honors Seminar – Knowing in Arts and Humanities</td>
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<td>HONR 192, HONR 193</td>
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<td>Honors Seminar – Knowing Across Cultures</td>
<td>F, S</td>
<td>HONR 192, HONR 193</td>
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<td>Third Year Honors Seminar</td>
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<td>Honors Pre-Thesis</td>
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<td>Honors Senior Seminar</td>
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<td>HONR 399</td>
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<td>† First Honors course</td>
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<td>†† Options for second Honors course. Choose one course for 3 credits.</td>
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nf 02/2017