# Environmental Science: Water Resources, BSAG

## Requirements for Students Matriculating in or before Academic Year 2023-2024

Learn more about University Academic Regulation 3.1 ([http://catalog.okstate.edu/university-academic-regulations/#matriculation](http://catalog.okstate.edu/university-academic-regulations/#matriculation)).

Minimum Overall Grade Point Average: 2.00

Total Hours: 124

## General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English Composition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td></td>
</tr>
<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

| **American History & Government** | | |
| Select one of the following: | | 3 |
| HIST 1103 | Survey of American History                    |       |
| HIST 1483 | American History to 1865 (H)                  |       |
| HIST 1493 | American History Since 1865 (DH)             |       |
| POLS 1113 | American Government                           | 3     |

| **Analytical & Quantitative Thought (A)** | | |
| STAT 2013 | Elementary Statistics (A)                   | 3     |

| **Humanities (H)** | | |
| Courses designated (H) | | 6 |

| **Natural Sciences (N)** | | |
| Must include one Laboratory Science (L) course | | |
| Select four hours from the following: | | 4 |
| BIOL 1113 & BIOL 1111 | Introductory Biology (N) and Introductory Biology Laboratory (LN) | 1 |
| BIOL 1114 | Introductory Biology (LN) | 1 |
| Course designated (N) | | 3 |

| **Social & Behavioral Sciences (S)** | | |
| AGEC 1113 | Introduction to Agricultural Economics (S) | 3 |
| AGCM 3203 | Oral Communications in Agricultural Sciences & Natural Resources (S) | 3 |
| or SPCH 2713 | Introduction to Speech Communication (S) | |

| Additional General Education | | |
| Courses designated (A), (H), (N), or (S) | | 6 |

## Hours Subtotal

**40**

## Diversity (D) & International Dimension (I)

May be completed in any part of the degree plan

Select at least one Diversity (D) course

Select at least one International Dimension (I) course

## College/Departmental Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 1011</td>
<td>First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 1113</td>
<td>Elements of Environmental Science (N)</td>
<td>3</td>
</tr>
<tr>
<td>SOIL 2124</td>
<td>Fundamentals of Soil Science (N)</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCOM 3113</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>AGCM 3103</td>
<td>Written Communications in Agricultural Sciences and Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>2, 3</td>
</tr>
<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</td>
<td>1, 3</td>
</tr>
<tr>
<td>or MATH 1813</td>
<td>Preparation for Calculus (A)</td>
<td></td>
</tr>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>1, 3</td>
</tr>
<tr>
<td>or CHEM 1215</td>
<td>Chemical Principles I (LN)</td>
<td></td>
</tr>
<tr>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
<td>1, 3</td>
</tr>
<tr>
<td>or CHEM 1225</td>
<td>Chemical Principles II (LN)</td>
<td></td>
</tr>
</tbody>
</table>

| Hours Subtotal | | 23 |

## Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 3503</td>
<td>Natural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 3113</td>
<td>Sampling and Analyses for Solving Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2344</td>
<td>Digital Tools for Environmental Problem-Solving (LN)</td>
<td>3</td>
</tr>
<tr>
<td>NREM 2083</td>
<td>Geospatial Technologies for Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4203</td>
<td>Fundamentals of Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 4010</td>
<td>Internships in Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 4811</td>
<td>Professional and Capstone Planning</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 4813</td>
<td>Environmental Science Capstone</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 4363</td>
<td>Environmental Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
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<tr>
<td>AGEC 3723</td>
<td>Environmental Law for Agriculture and Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>NREM 4043</td>
<td>Natural Resource Administration and Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 4433</td>
<td>Environmental Sociology (S)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3013</td>
<td>Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 2344</td>
<td>Chemistry and Applications of Biomolecules</td>
<td></td>
</tr>
<tr>
<td>BIOL 3034</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 1604</td>
<td>Plant Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1114</td>
<td>Physical Geology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1114</td>
<td>College Physics I (LN)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1214</td>
<td>College Physics II (LN)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2144</td>
<td>Calculus I (A)</td>
<td>4</td>
</tr>
<tr>
<td>NREM 4443</td>
<td>Watershed Hydrology and Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>BIOL 4434</td>
<td>Limnology</td>
<td></td>
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<tr>
<td>GEOL 4453</td>
<td>Hydrogeology</td>
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</tr>
<tr>
<td>SOIL 4683</td>
<td>Soil, Water, and Weather</td>
<td></td>
</tr>
</tbody>
</table>

## Hours Subtotal

**23**

## Additional General Education

Courses designated (A), (H), (N), or (S) | 6

## Hours Subtotal

**40**
Related Courses
Select 5 hours of the following:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3053</td>
<td>Freshwater: Concepts, Threats and Management (N)</td>
</tr>
<tr>
<td>BIOL 4363</td>
<td>Principles of Toxicology</td>
</tr>
<tr>
<td>ENTO 4484</td>
<td>Aquatic Entomology</td>
</tr>
<tr>
<td>ENVR 4033</td>
<td>Ecology of Invasive Species</td>
</tr>
<tr>
<td>ENVR 4500</td>
<td>Environmental Science Problems</td>
</tr>
<tr>
<td>ENVR 4512</td>
<td>Introduction to National Environmental Policy Act</td>
</tr>
<tr>
<td>GEOG 4073</td>
<td>Climate Change: Past, Present, and Future</td>
</tr>
<tr>
<td>GEOL 4403</td>
<td>Environmental Geochemistry</td>
</tr>
<tr>
<td>MICR 2123</td>
<td>Introduction to Microbiology</td>
</tr>
<tr>
<td>MICR 2132</td>
<td>Introduction to Microbiology Laboratory</td>
</tr>
<tr>
<td>NREM 4023</td>
<td>Restoration Ecology</td>
</tr>
<tr>
<td>NREM 4403</td>
<td>Wetland Ecology and Management</td>
</tr>
<tr>
<td>SOIL 3433</td>
<td>Soil Genesis, Morphology, and Classification</td>
</tr>
<tr>
<td>SOIL 4463</td>
<td>Soil and Water Conservation</td>
</tr>
<tr>
<td>SOIL 4483</td>
<td>Soil Microbiology</td>
</tr>
</tbody>
</table>

Hours Subtotal  61

Electives
Select 0 hours or hours to complete required total for degree  0

Total Hours  124

1 College & Departmental or Major requirements that may be used to meet GE requirements.

2 If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above then hours in this block are 0.

3 Hours meeting the Major common core.

Other Requirements
  • A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
  • A 2.00 GPA or higher in upper-division hours.

Additional State/OSU Requirements
  • At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
  • Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
  • Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
  • Degrees that follow this plan must be completed by the end of Summer 2029.