# Environmental Science: Natural Resources, BSAG

Requirements for Students Matriculating in or before Academic Year 2020-2021. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 124

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<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>ENGL 1213</td>
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</tr>
<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
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<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
<td></td>
</tr>
<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
<td></td>
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<tr>
<td>AGEC 3503</td>
<td>Natural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3034</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>1</td>
</tr>
<tr>
<td>Course designated (N)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
<td>3</td>
</tr>
<tr>
<td>AGCM 3203</td>
<td>Oral Communications in Agricultural Sciences &amp; Natural Resources (S)</td>
<td>3</td>
</tr>
<tr>
<td>or SPCH 2713</td>
<td>Introduction to Speech Communication (S)</td>
<td></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</td>
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## General Education Requirements

### English Composition

See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition/)

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### American History & Government

Select one of the following:

- HIST 1103 | Survey of American History                 | 3     |
- HIST 1483 | American History to 1865 (H)               |       |
- HIST 1493 | American History Since 1865 (DH)          |       |
- POLS 1113 | American Government                        | 3     |

### Analytical & Quantitative Thought (A)

Select one of the following:

- STAT 2013 | Elementary Statistics (A)                 | 3     |
- STAT 2031 | Elementary Statistics (A)                 |       |

### Humanities (H)

Courses designated (H)                          | 6     |

### Natural Sciences (N)

Must include one Laboratory Science (L) course

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### Social & Behavioral Sciences (S)

Select one of the following:

- 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

### Agricultural Sciences and Natural Resources

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<tr>
<th>Code</th>
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<tr>
<td>AG 1011</td>
<td>First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 1113</td>
<td>Elements of Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>SOIL 2124</td>
<td>Fundamentals of Soil Science (N)</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:

- CHEM 3013 | Survey of Organic Chemistry                | 3     |
- BIOC 2344 | Chemistry and Applications of Biomolecules |       |
- CHEM 3015 |                                         |       |

### Additional Requirements

If CHEM 1414 is taken, then must have both CHEM 3015 and BIOC 2344

Select one of the following:

- PBIO 1404 | Plant Biology (LN)                        | 4     |
- or BIOL 1604 | Animal Biology                            |       |
- CHEM 1314 | Chemistry I (LN)                          | 4     |
- or CHEM 1215 | Chemical Principles I (LN)                |       |
- CHEM 1515 | Chemistry II (LN)                         | 5     |
- or CHEM 1225 | Chemical Principles II (LN)              |       |
- PHYS 1114 | College Physics I (LN)                    | 4     |

Select one of the following:

- PHYS 1214 | College Physics II (LN)                   | 4     |
- MATH 2144 | Calculus I (A)                            |       |
- GEOL 1114 | Physical Geology (LN)                     |       |

Select one of the following:

- MATH 1715 | Precalculus (A)                           | 5     |
- MATH 1513 | College Algebra (A)                       |       |
- & MATH 1813 | and Preparation for Calculus (A)         |       |

### Written and Oral Communications

Select one of the following:

- BCOM 3113 | Written Communication                     | 3     |
- AGCM 3103 | Written Communications in Agricultural Sciences and Natural Resources | 3 |
- ENGL 3323 | Technical Writing                          | 2     |

## Hours Subtotal

40

## Major Requirements

### Core Courses

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<tr>
<td>ENVR 3113</td>
<td>Sampling and Analyses for Solving Environmental Problems</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 Applications and Problem Solving</td>
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Select one of the following:

- NREM 4043 | Natural Resource Administration and Policy | 3 |
- ENVR 4512 | Environmental Impact Analysis              |       |
- POLS 4363 | Environmental Law And Policy               |       |
- NREM 4443 | Watershed Hydrology and Water Quality      | 3     |
- ENV 4893  | Environmental Soil Chemistry               | 3     |
- or BIOL 4303 | Organismal Ecotoxicology                  |       |

### Additional Core Courses

Select one of the following:

- ENV 4363 | Environmental Soil Science                | 3     |
- ENV 4913 | Animal Waste Management                   |       |
- SOIL 4683 | Soil, Water, and Weather                  |       |

Select one of the following:

- ENV 4363 | Environmental Soil Science                | 3     |
- ENV 4913 | Animal Waste Management                   |       |
- SOIL 4683 | Soil, Water, and Weather                  |       |
NREM 3613  Principles of Rangeland Management
NREM 4023  Restoration Ecology
NREM 4033  Ecology Of Invasive Species

Related Courses
Select 15 hours of the following: 15

AGEC 3713  Agricultural Law
AGEC 4503  Environmental Economics and Resource Development
ANTH 3353  Cultural Anthropology (IS)
BCOM 3223  Oral Communication
CIVE 3853  Environmental Engineering Laboratory
ECON 2103  Introduction to Microeconomics (S)
ECON 3903  Economics of the Environment
ENTO 2003  Insects and Society (N)
ENTO 2223  Insects in Global Public Health (N)
ENTO 2993  Introduction to Entomology (LN)
ENTO 4223  Ecological Methodology
ENTO 4484  Aquatic Entomology
ENVR 4363  Environmental Soil Science
ENVR 4893  Environmental Soil Chemistry
ENVR 4913  Animal Waste Management
GEOG 2344  Digital Tools for Environmental Exploration (LN)
GEOG 4203  Fundamentals of Geographic Information Systems
GEOL 3503  Environmental Geology (N)
GEOL 4453  Hydrogeology
LA 4423  Planning and Design for Sustainable Landscapes
LA 4433  Land Use and City Planning
MICR 2123  Introduction to Microbiology
MICR 2132  Introduction to Microbiology Laboratory
MICR 3103  Microbes: Friends or Foes (N)
NREM 2083  Geospatial Technologies for Natural Resources
NREM 4403  Wetland Ecology and Management
PBIO 3253  Environment and Society (N)
PBIO 3263  Plants and People (N)
PBIO 4005  Field Botany
PHYS 1214  College Physics II (LN) or PHYS 2114 University Physics II (LN)
POLS 3493  Public Policy
SOC 1113  Introductory Sociology (S)
SOC 4433  Environmental Sociology (S)
SOIL 3433  Soil Genesis, Morphology, and Classification
SOIL 4234  Soil Nutrient Management
SOIL 4463  Soil and Water Conservation
SOIL 4483  Soil Microbiology
SOIL 4683  Soil, Water, and Weather
BIOL 4434  Limnology

Hours Subtotal 44

Electives

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

Total Hours 124

1  College & Departmental 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.

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 2026.