Environmental Science: Water Resources, BSAG

Requirements for Students Matriculating in or before Academic Year 2019-2020. 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>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Composition and Writing II</td>
<td></td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
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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                      |

Analytical & Quantitative Thought (A)

- STAT 2013 | Elementary Statistics (A) 1              | 3     |

Humanities (H)

Courses designated (H) 6

Natural Sciences (N)

Must include one Laboratory Science (L) course

- BIOL 1114 | Introductory Biology (LN) 1             | 4     |

Course designated (N) 3

Social & Behavioral Sciences (S)

- AGEC 1113 | Introduction to Agricultural Economics (S) 1 | 3     |
- AGCM 3203 | Oral Communications in Agricultural Sciences & Natural Resources (S) 1 | 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

- AG 1011 | First Year Seminar                        | 1     |
- ENVR 1113 | Elements of Environmental Science       | 3     |
- SOIL 2124 | Fundamentals of Soil Science (N)        | 4     |

Select one of the following:
- CHEM 3013 | Survey of Organic Chemistry              |
- BIOC 2344 | Chemistry and Applications of Biomolecules |
- CHEM 3015 | Survey of Organic Chemistry              |

Additional Requirements

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

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

Select one of the following: 5
- MATH 1715 | Precalculus (A)                         |
- MATH 1513 | College Algebra (A)                     |
- & MATH 1613 | and Trigonometry (A)                    |

Written and Oral Communications

Select one of the following: 3

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

Hours Subtotal 40

Major Requirements

Core Courses

- AGEC 3503 | Natural Resource Economics               | 3     |
- BIOL 3034 | General Ecology                          | 4     |
- ENVR 3113 | Sampling and Analyses for Solving        |
- Environmental Problems |
- ENV 4811 | Professional and Capstone Planning       | 1     |
- ENV 4813 | Environmental Science Applications and Problem Solving |

Select one of the following: 3

- NREM 4043 | Natural Resource Administration and Policy |
- or BIOL 4303 | Organismal Ecotoxicology                |

Additional Core Courses

Select one of the following: 3

- ENV 4363 | Environmental Soil Science              |
- ENV 4893 | Soil Chemistry and Environmental Quality |
- or BIOL 4303 | Organismal Ecotoxicology                |
- ENV 4913 | Animal Waste Management                 |
- SOIL 4683 | Soil, Water, and Weather                | 3     |
Select one of the following:  
BIOL 4434 Limnology  
GEOL 4453 Hydrogeology

Related Courses

Select 12 hours of the following:  
AGEC 3713 Agricultural Law  
AGEC 4503 Environmental Economics and Resource Development  
ANTH 3353 Cultural Anthropology (IS)  
BCOM 3223 Oral Communication  
CHEM 2113 Principles of Analytical Chemistry  
CHEM 2122 Quantitative Analysis Laboratory  
CIVE 3853 Environmental Engineering Laboratory  
CIVE 4853 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 Soil Chemistry and Environmental Quality  
ENVR 4913 Animal Waste Management  
GEOG 2344 Digital Tools for Environmental Exploration (LN)  
GEOG 4203 Fundamentals of Geographic Information Systems  
GEOG 3503 Environmental Geology (N)  
GEOG 4303 Organismal Ecotoxicology  
GEOG 4453 Hydrogeology  
LA 4423 Sustainable Planning and Design  
LA 4433 Land Use and City Planning  
MATH 2133 Calculus for Technology Programs II (A)  
MATH 2153 Calculus II (A)  
MICR 2123 Introduction to Microbiology  
MICR 4123 Introduction to Microbiology Laboratory  
NREM 2083 Geospatial Technologies for Natural Resources  
NREM 3613 Principles of Rangeland Management  
NREM 4023 Restoration Ecology  
NREM 4033 Ecology Of Invasive Species  
NREM 4403 Wetland Ecology and Management  
PBIO 3253 Environment and Society (N)  
PBIO 3263 Plants and People (N)  
PHYS 1214 College Physics II (LN)  
PHYS 2114 University Physics II (LN)  
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 4303 Organismal Ecotoxicology  
BIOL 4434 Limnology

Hours Subtotal  
Total Hours 124

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

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 2025.