NATURAL RESOURCE ECOLOGY & MANAGEMENT:  
FOREST ECOLOGY & MANAGEMENT, 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).

Minimum Overall Grade Point Average: 2.00
Total Hours: 125

<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>3</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>Critical Analysis and Writing II</td>
<td>3</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
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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) | 3     |
- HIST 1493 | American History Since 1865 (DH) | 3     |
- POLS 1113 | American Government | 3     |

Analytical & Quantitative Thought (A)

- MATH 1513 | College Algebra (A) | 3     |
- 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:

- BIOL 1113 | Introductory Biology (N) | 3     |
- & BIOL 1111 | and Introductory Biology Laboratory (LN) | 3     |
- BIOL 1114 | Introductory Biology (LN) | 3     |

Course designated (N) | 3

Social & Behavioral Sciences (S)

- AGE 1113 | Introduction to Agricultural Economics (S) | 3     |

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 Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 1215</td>
<td>Chemical Principles I (LN)</td>
<td>4</td>
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<tr>
<td>or CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>4</td>
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Select one of the following:

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

Select one of the following:

- AGCM 3203 | Oral Communications in Agricultural Sciences & Natural Resources (S) | 4     |
- SPCH 2713 | Introduction to Speech Communication (S) | 4     |
- SPCH 3733 | Elements of Persuasion (S) | 4     |

AG 1011 | First Year Seminar | 1     |

Select one of the following:

- SOIL 2124 | Fundamentals of Soil Science (N) | 3     |
- ENTO 4484 | Aquatic Entomology | 3     |

NREM 3013 | Applied Ecology and Conservation | 3     |

Departmental Requirements

Select one of the following:

- BIOL 1604 | Animal Biology | 3     |
- NREM 2134 | Dendrology | 3     |
- NREM 1012 | Introduction to Natural Resource Ecology and Management | 2     |
- NREM 2083 | Geospatial Technologies for Natural Resources | 3     |
- NREM 3012 | Applied Ecology Laboratory | 2     |
- NREM 3503 | Principles of Wildlife Ecology and Management | 3     |
- NREM 4001 | Issues In Global Change | 1     |
- NREM 4043 | Natural Resource Administration and Policy | 3     |
- PBIO 1404 | Plant Biology (LN) | 4     |

Hours Subtotal | 40

Major Requirements

Core Courses

- NREM 1113 | Elements of Forestry | 3     |
- NREM 2113 | Wood Properties, Products, & Harvesting | 3     |
- NREM 3091 | Field Applications of Geospatial Technologies for Natural Resources | 1     |
- NREM 3101 | Forest Resource Field Studies | 1     |
- NREM 3111 | Natural Resource Field Studies | 1     |
- NREM 3123 | Forest Measurements I | 3     |
- NREM 3133 | Forest Measurements II | 3     |
- NREM 3143 | Forest Biology | 3     |
- NREM 3153 | Forest Health and Disturbance Ecology | 3     |
- NREM 3224 | Silviculture | 4     |
- NREM 4234 | Forest Management and Economics | 4     |
- NREM 4333 | Forest Resource Management: Planning and Decision-Making | 3     |
- NREM 4443 | Watershed Hydrology and Water Quality | 3     |

Select one of the following:

- NREM 3613 | Principles of Rangeland Management | 3     |
Select 7 hours of the following or of other courses in consultation with a faculty advisor for additional breadth, or to create a specialty emphasis area:  

- ACCT 2003 Survey of Accounting  
- AGEC 3423 Farm and Agribusiness Management  
- BIOL 3513 Principles of Conservation Biology  
- ENTO 2993 Introduction to Entomology (LN)  
- ENTO 3461 Insects in Forest Ecosystems  
- GEOG 4203 Fundamentals of Geographic Information Systems  
- GEOG 4263 Geospatial Applications for Unmanned Aerial Systems  
- GEOG 4333 Remote Sensing  
- GEOG 4343 Geographic Information Systems: Resource Management Applications  
- GEOL 1114 Physical Geology (LN)  
- HORT 2613 Woody Plant Materials  
- HORT 3013 Arboriculture  
- LSB 3213 Legal and Regulatory Environment of Business  
- MGMT 3013 Fundamentals of Management (S)  
- MKTG 3213 Marketing (S)  
- NREM 3063 Natural Resource Biometrics  
- NREM 3502 Wildlife Law Enforcement  
- NREM 3613 Principles of Rangeland Management  
- NREM 4023 Restoration Ecology  
- NREM 4033 Ecology Of Invasive Species  
- NREM 4053 Natural Resource Recreation  
- NREM 4093 Natural Resources, People and Sustainable Development (I)  
- NREM 4403 Wetland Ecology and Management  
- NREM 4414 Fisheries Management  
- NREM 4453 Aquaculture  
- NREM 4533 Wildlife Management for Game Species  
- NREM 4543 Wildlife Management for Biodiversity  
- NREM 4783 Prescribed Fire  
- NREM 4793 Advanced Prescribed Fire  
- NREM 4960 Undergraduate Internship  
- NREM 4980 Undergraduate Research  
- NREM 4990 Special Topics in Natural Resource Ecology and Management  
- PHYS 1114 College Physics I (LN)  
- PLP 3343 Principles of Plant Pathology  
- SOIL 4463 Soil and Water Conservation  

**Total Hours** 125

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