NATURAL RESOURCE ECOLOGY & MANAGEMENT:  
FOREST ECOLOGY & MANAGEMENT, 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: 130

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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<tr>
<td></td>
<td><strong>English Composition</strong></td>
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<tr>
<td>ENGL 1113</td>
<td>Composition I or ENGL 1313 Critical Analysis and Writing I</td>
<td>3</td>
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<tr>
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<td>Select one of the following:</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>ENGL 1413 Critical Analysis and Writing II</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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<tr>
<td></td>
<td><strong>American History &amp; Government</strong></td>
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<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
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<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
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<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
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<td>POLS 1113</td>
<td>American Government</td>
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<tr>
<td></td>
<td><strong>Analytical &amp; Quantitative Thought (A)</strong></td>
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<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</td>
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<td>STAT 2013</td>
<td>Elementary Statistics (A)</td>
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<td></td>
<td><strong>Humanities (H)</strong></td>
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<td>Courses designated (H)</td>
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<tr>
<td></td>
<td><strong>Natural Sciences (N)</strong></td>
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<td></td>
<td>Must include one Laboratory Science (L) course</td>
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<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
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<td>Course designated (N)</td>
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<td></td>
<td><strong>Social &amp; Behavioral Sciences (S)</strong></td>
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<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
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<td></td>
<td><strong>Additional General Education</strong></td>
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<td>Courses designated (A), (H), (N), or (S)</td>
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<td><strong>Hours Subtotal</strong></td>
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<td><strong>Diversity (D) &amp; International Dimension (I)</strong></td>
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<td>May be completed in any part of the degree plan</td>
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<td>Select at least one Diversity (D) course</td>
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<td></td>
<td>Select at least one International Dimension (I) course</td>
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<td><strong>College/Departmental Requirements</strong></td>
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<td></td>
<td><strong>Agricultural Sciences and Natural Resources</strong></td>
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<tr>
<td>AG 1011</td>
<td>First Year Seminar</td>
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NREM 1012 Introduction to Natural Resource Ecology and Management  
NREM 1113 Elements of Forestry  
NREM 1213 Introduction to Wood Properties and Products  
NREM 2112 Timber Harvesting  
NREM 2134 Dendrology  
NREM 3123 Forest Measurements I  
SOIL 2124 Fundamentals of Soil Science (N)  

**Natural Sciences**

CHEM 1215 Chemical Principles I (LN)  
or CHEM 1314 Chemistry I (LN)  
PBIO 1404 Plant Biology (LN)  

**Written and Oral Communications**

Select one of the following:  
AGCM 3103 Written Communications in Agricultural Sciences and Natural Resources  
BCOM 3113 Written Communication  
ENGL 3323 Technical Writing  

Select one of the following:  
AGCM 3203 Oral Communications in Agricultural Sciences & Natural Resources (S)  
SPCH 2713 Introduction to Speech Communication (S)  
SPCH 3733 Elements of Persuasion (S)  

**Hours Subtotal** 36

**Major Requirements**

**Core Courses**

NREM 2083 Geospatial Technologies for Natural Resources  
NREM 3012 Applied Ecology Laboratory  
NREM 3013 Applied Ecology and Conservation  
NREM 3063 Natural Resource Biometrics  
NREM 3101 Forest Resource Field Studies  
NREM 3111 Natural Resource Field Studies  
NREM 3143 Forest Biology  
NREM 3153 Forest Health and Disturbance Ecology  
NREM 3224 Silviculture  
NREM 3503 Principles of Wildlife Ecology and Management  
NREM 4001 Issues In Global Change  
NREM 4043 Natural Resource Administration and Policy  
NREM 4234 Forest Management and Economics  
NREM 4333 Forest Resource Management: Planning and Decision-Making  
NREM 4443 Watershed Hydrology and Water Quality  

Select one of the following:  
NREM 3133 Forest Measurements II  
NREM 3102  

Select one of the following:  
NREM 3613 Principles of Rangeland Management  
NREM 4053 Natural Resource Recreation
Related Courses
Select 9 hours of the following or of other courses in consultation with a faculty advisor for additional breadth, or to create a speciality emphasis area:

Related Courses
- ACCT 2103 Financial Accounting
- ACCT 2203 Managerial 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
- FIN 3113 Finance
- GEOG 4343 Geographic Information Systems: Resource Management Applications
- GEOG 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 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 4452 Pond Management
- NREM 4533 Wildlife Management for Game Species
- NREM 4543 Wildlife Management for Biodiversity
- NREM 4783 Prescribed Fire
- NREM 4793 Prescribed Fire
- NREM 4860 Undergraduate Internship
- NREM 4880 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

Hours Subtotal: 54

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

Total Hours: 130

1. College & Departmental requirements that may be used to meet GE requirements.
2. If used as (N) course above, then hours are reduced by course hours.
3. If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.
4. If used as (S) course above, then hours are reduced by three.
5. May not use a course used above in Core Courses.

Other Requirements
- Students must earn minimum grades of “C” or “P” in each course listed in Major 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.