

NATURAL RESOURCE ECOLOGY & MANAGEMENT: RANGELAND ECOLOGY & MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2024-2025. 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

Code	Title	Hours
General Education Requirements		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition/)		
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the following:		3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
<i>American History & Government</i>		
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
<i>Analytical & Quantitative Thought (A)</i>		
MATH 1513	College Algebra (A) ¹	3
STAT 2013	Elementary Statistics (A) ¹	3
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
Select four hours from the following:		4
BIOL 1113	Introductory Biology (N)	
& BIOL 1111	and Introductory Biology Laboratory (LN) ¹	
BIOL 1114	Introductory Biology (LN) ¹	
Course designated (N)		3
<i>Social & Behavioral Sciences (S)</i>		
AGEC 1113	Introduction to Agricultural Economics (S) ¹	3
<i>Additional General Education</i>		
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		
CHEM 1215	Chemical Principles I (LN) ²	4
or CHEM 1314	Chemistry I (LN)	
<i>Natural Sciences</i>		
Select one of the following:		3
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
BCOM 3113	Written Communication	
ENGL 3323	Technical Writing ³	
Select one of the following:		3
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:		4
SOIL 2124	Fundamentals of Soil Science (N)	
ENTO 4484	Aquatic Entomology	
NREM 3013	Applied Ecology and Conservation	3
<i>Departmental Requirements</i>		
Select one of the following:		4
BIOL 1604	Animal Biology	
NREM 2134	Dendrology	
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		
<i>Core Courses</i>		
ANSI 3543	Principles of Animal Nutrition	3
CHEM 1225	Chemical Principles II (LN) ²	5
or CHEM 1515	Chemistry II (LN)	
NREM 3063	Natural Resource Biometrics	3
NREM 3613	Principles of Rangeland Management	3
NREM 4023	Restoration Ecology	3
NREM 4033	Ecology Of Invasive Species	3
NREM 4443	Watershed Hydrology and Water Quality	3
NREM 4603	Rangeland and Pasture Utilization	3
NREM 4613	Rangeland Resources Planning	3
NREM 4783	Prescribed Fire	3
PBIO 4005	Field Botany	5
SOIL 3433	Soil Genesis, Morphology, and Classification	3
<i>Related Courses</i>		

Select 5 hours of the following or of other courses in consultation with a faculty advisor for additional breadth, or to create a specialty emphasis area:⁵

AGEC 3423	Farm and Agribusiness Management
AGEC 3503	Natural Resource Economics
ANSI 1021 & ANSI 1023	Introduction to the Animal Sciences Lab and Introduction to the Animal Sciences
or ANSI 1124	Introduction to the Animal Sciences
ANSI 3423	Animal Genetics
ANSI 3433	Animal Breeding
ANSI 3653	Applied Animal Nutrition
ANSI 4613	Beef Cow-Calf Management
BIOL 3034	General Ecology
BIOL 3513	Principles of Conservation Biology
BIOL 4113	Conservation Genetics
BIOL 4133	Evolution
BIOL 4174	Mammalogy
BIOL 4303	Organismal Ecotoxicology
BIOL 4413	Biology of Fishes
ENTO 2993	Introduction to Entomology (LN)
ENTO 4223	Ecological Methodology
ENVR 1113	Elements of Environmental Science (N)
ENVR 4512	Introduction to National Environmental Policy Act
GEOG 3023	Climatology (N)
GEOG 3033	Meteorology (N)
GEOG 3153	Conservation of Natural Resources (S)
GEOG 3333	Spatial Analysis (A)
GEOG 4053	Biogeography
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 3503	Environmental Geology (N)
NREM 2134	Dendrology
NREM 3091	Field Applications of Geospatial Technologies for Natural Resources
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 3502	Wildlife Law Enforcement
NREM 4053	Natural Resource Recreation
NREM 4093	Natural Resources, People and Sustainable Development (I)
NREM 4403	Wetland Ecology and Management
NREM 4452	Pond Management
NREM 4453	Aquaculture
NREM 4464	Ornithology

NREM 4522	Wildlife Management Applications and Planning
NREM 4523	Wildlife Management Techniques
NREM 4533	Wildlife Management for Game Species
NREM 4543	Wildlife Management for Biodiversity
NREM 4793	Advanced Prescribed Fire
NREM 4960	Undergraduate Internship
NREM 4980	Undergraduate Research
NREM 4990	Special Topics in Natural Resource Ecology and Management
PBIO 3024	Plant Diversity
PBIO 3114	Plant Taxonomy
PBIO 4463	Plant Physiology
PLP 3343	Principles of Plant Pathology
PLNT 1213	Introduction to Plant and Soil Systems
POLS 4593	Natural Resources and Environmental Policy
SOIL 4463	Soil and Water Conservation
SOIL 4483	Soil Microbiology
SOIL 4683	Soil, Water, and Weather
Hours Subtotal	45
Electives	
Select 0 hours or hours to complete required total for degree	0
Total Hours	125

1

College & Departmental requirements that may be used to meet General Education 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

- 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 2030.