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

Requirements for Students Matriculating in or before Academic Year 2025-2026. 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 I	Requirements	
<b>English Composition</b>	1	
See Academic Regi	ulation 3.5 (http://catalog.okstate.edu/	
university-academi	c-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	
American History &	Government	
Select one of the fo	llowing:	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
Quantitative Though	t & Logical Reasoning (Q)	
MATH 1513	College Algebra (Q) <sup>1</sup>	3
STAT 2013	Elementary Statistics (Q) <sup>1</sup>	3
Understanding Hum	anities-Human Heritage & Cultures (H)	
Courses designated	d (H)	3
Courses designated	Courses designated (DH)	
Reasoning in the Na	tural Sciences (N)	
Must include one L	aboratory-Based Inquiry (L) course	
Select four hours fr	om the following:	4
BIOL 1113	Introductory Biology (N)	
& BIOL 1111	and Introductory Biology Laboratory (LN) <sup>1</sup>	
BIOL 1114	Introductory Biology (LN) <sup>1</sup>	
Course designated	(N)	2
Exploring Society & I	Human Behavior (S)	
AGEC 1113	Introduction to Agricultural Economics (S) 1	3
Diversity		
Courses designated	d (D)	
May be paired with	another designated course	
Global Cultural Comp	petency (G)	
Courses designated (G)		
Additional General E	ducation	

Additional general education credit hours (at least 4 hours) are required to meet the total 40-hour minimum. If courses carry more than one general education designation and can be used to meet multiple minimum general education designation hours above, more than 4 hours of additional general education will be required here to meet the 40-hour minimum.

Courses designated (Q), (H), (N), (S), (D), (G), or (F).		4
Hours Subtotal		40
College Requirements		
CHEM 1215	Chemical Principles I (LN) <sup>2</sup>	4
or CHEM 1314	Chemistry I (LN)	
Natural Sciences		
Select one of the following:		
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
BCOM 3113	Written Communication	
ENGL 3323	Technical Writing <sup>3</sup>	
Select one of the following:		
AGCM 3203	Oral Communications in Agricultural Sciences & Natural Resources (S) <sup>4</sup>	
SPCH 2713	Introduction to Speech Communication (S) 4	
SPCH 3733	Elements of Persuasion (S) 4	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
Select one of the follo	owing:	4
SOIL 2124	Fundamentals of Soil Science (N)	
ENTO 4484	Aquatic Entomology	
NREM 3013	Applied Ecology and Conservation	3
Departmental Requirer	ments	
Select one of the follo	owing:	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		
Core Courses		
ANSI 3543	Principles of Animal Nutrition	3
CHEM 1225	Chemical Principles II (LN) <sup>2</sup>	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	3
	Classification	
Related Courses		
Select 5 hours of the	following or of other courses in consultation	5
	r for additional breadth, or to create a	
specialty emphasis a		
AGEC 3423	Farm and Agribusiness Management	
AGEC 3503	Natural Resource Economics	
ANSI 1021	Introduction to the Animal Sciences Lab and Introduction to the Animal Sciences	
& ANSI 1023 or ANSI 1124	Introduction to the Animal Sciences	
	Animal Genetics	
ANSI 3423		
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 (Q)	
GEOG 4053	Biogeography, Biodiversity, and Humankind	
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	

Total Hours		125
Select 0 hours or hou	rs to complete required total for degree	0
Electives		
Hours Subtotal		45
SOIL 4683	Soil, Water, and Weather	
SOIL 4483	Soil Microbiology	
SOIL 4463	Soil and Water Conservation	
POLS 4593	Natural Resources and Environmental Policy	
PLNT 1213	Introduction to Plant and Soil Systems (N)	
PLP 3343	Principles of Plant Pathology	
PBIO 4463	Plant Physiology	
PBIO 3114	Plant Taxonomy	
PBIO 3024	Plant Diversity	
NREM 4990	Special Topics in Natural Resource Ecology and Management	
NREM 4980	Undergraduate Research	
NREM 4960	Undergraduate Internship	
NREM 4793	Advanced Prescribed Fire	
NREM 4741	Wildland Firefighter Training	
NREM 4543	Wildlife Management for Biodiversity	
NREM 4533	Wildlife Management for Game Species	
NREM 4523	Wildlife Management Techniques	
NREM 4522	Wildlife Management Applications and Planning	
NREM 4464	Ornithology	
NREM 4453	Aquaculture	
NREM 4452	Pond Management	
NREM 4403	Wetland Ecology and Management	
NREM 4093	Natural Resources, People and Sustainable Development (G)	
NREM 4053	Natural Resource Recreation	

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 and 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth 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 2031.