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

General Education Requirements English Composition 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 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 3 Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) 1 3 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 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 1 Introduction to 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	Code	Title	Hours
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 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 Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) 1 STAT 2013 Elementary Statistics (A) 1 Humanities (H) Courses designated (H) Autural 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 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one International Dimension (I) course College/Departmental Requirements Agricultural Sciences and Natural Resources	General Education	Requirements	
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College/Departmental Requirements Agricultural Sciences and Natural Resources	Select at least one	Diversity (D) course	
Agricultural Sciences and Natural Resources	Select at least one	International Dimension (I) course	
3	College/Departmen	tal Requirements	
AG 1011 First Year Seminar 1	Agricultural Science	s and Natural Resources	
	AG 1011	First Year Seminar	1

NREM 1012	Introduction to Natural Resource Ecology and Management	2
NREM 1113	Elements of Forestry	3
NREM 1213	Introduction to Wood Properties and Products	3
NREM 2112	Timber Harvesting	2
NREM 2134	Dendrology	4
NREM 3123	Forest Measurements I	3
SOIL 2124	Fundamentals of Soil Science (N)	4
Natural Sciences		
CHEM 1215	Chemical Principles I (LN) ²	4
or CHEM 1314	Chemistry I (LN)	
PBIO 1404	Plant Biology (LN)	4
Written and Oral Cor	nmunications	
Select one of the fo	llowing:	3
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
BCOM 3113	Written Communication	
ENGL 3323	Technical Writing ³	
Select one of the fo	llowing:	3
AGCM 3203	Oral Communications in Agricultural	
	Sciences & Natural Resources (S) ⁴	
SPCH 2713	Introduction to Speech Communication (S)	
SPCH 3733	Elements of Persuasion (S) ⁴	
Hours Subtotal		36
Major Requirement	s	
Core Courses		
	Geospatial Technologies for Natural Resources	3
Core Courses		3
Core Courses NREM 2083	Resources	
Core Courses NREM 2083 NREM 3012	Resources Applied Ecology Laboratory	2
Core Courses NREM 2083 NREM 3012 NREM 3013	Resources Applied Ecology Laboratory Applied Ecology and Conservation	2
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics	2 3 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies	2 3 3 1
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies	2 3 3 1 1 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology	2 3 3 1 1 3 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology	2 3 3 1 1 3 3 4
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management	2 3 3 1 1 3 3 4
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and	2 3 3 1 1 3 3 4 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and	2 3 3 1 1 3 4 3 1 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy	2 3 3 1 1 3 3 4 3 1 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043 NREM 4043	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy Forest Management and Economics Forest Resource Management: Planning	2 3 3 1 1 3 3 4 3 1 3 4 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043 NREM 4043 NREM 4234 NREM 4333	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy Forest Management and Economics Forest Resource Management: Planning and Decision-Making Watershed Hydrology and Water Quality	2 3 3 1 1 3 4 3 1 3 4 3
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043 NREM 4043 NREM 4234 NREM 4333 NREM 4443	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy Forest Management and Economics Forest Resource Management: Planning and Decision-Making Watershed Hydrology and Water Quality	2 3 3 1 1 3 4 3 1 3 4 3
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Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043 NREM 4043 NREM 4234 NREM 4333 NREM 4443 Select one of the for NREM 3133	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy Forest Management and Economics Forest Resource Management: Planning and Decision-Making Watershed Hydrology and Water Quality Illowing: Forest Measurements II	2 3 3 1 1 3 4 3 4 3 4 3 2
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043 NREM 4043 NREM 4234 NREM 4333 NREM 4443 Select one of the for NREM 3133 NREM 3102	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy Forest Management and Economics Forest Resource Management: Planning and Decision-Making Watershed Hydrology and Water Quality Illowing: Forest Measurements II	2 3 3 1 1 3 4 3 4 3 4 3 2
Core Courses NREM 2083 NREM 3012 NREM 3013 NREM 3063 NREM 3101 NREM 3111 NREM 3143 NREM 3153 NREM 3224 NREM 3503 NREM 4001 NREM 4043 NREM 4033 NREM 4234 NREM 4333 NREM 4333 NREM 3102 Select one of the fo	Resources Applied Ecology Laboratory Applied Ecology and Conservation Natural Resource Biometrics Forest Resource Field Studies Natural Resource Field Studies Forest Biology Forest Health and Disturbance Ecology Silviculture Principles of Wildlife Ecology and Management Issues In Global Change Natural Resource Administration and Policy Forest Management and Economics Forest Resource Management: Planning and Decision-Making Watershed Hydrology and Water Quality Illowing: Forest Measurements II	2 3 3 1 1 3 3 4 3

NREM 4414 Fisheries Management **Related Courses** Select 9 hours of the following or of other courses in consultation 9 with a faculty advisor for additional breadth, or to create a specialty emphasis area: 5

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	
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 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 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	
Hours Subtotal		54
Electives		

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

130

College & Departmental requirements that may be used to meet GE requirements.

- If used as (N) course above, then hours are reduced by course hours.
- If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.

Total Hours

- If used as (S) course above, then hours are reduced by three.
- 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; 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 2025.