RANGE SCIENCE - BACHELOR OF SCIENCE IN AGRICULTURE

The following course work prepares you for study and management of rangelands through an integrated ecological approach with special emphasis on rangeland plants, livestock, wildlife, soils and watersheds. The course work is also well designed for those who want to continue study in graduate school. Any undergraduate student majoring in Range Science must earn a grade of C- or higher in Range Science (RGSC prefix) courses to satisfy degree requirements. Students earning a D or F in a Range Science (RGSC prefix) course will be expected to repeat that course until the student earns a grade of C- or higher.

Requirements

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300/3000 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communications		*10*
English Composition - Level 1 [1]		
English Composition - Level 2 [1]		
Oral Communication [1]		
ACOM 1130G	Effective Leadership and Communication in Agriculture	
or COMM 1115G	Introduction to Communication	
Area II: Mathematics [2]		
MATH 1220G	College Algebra	3
Area III/IV: Laboratory Sciences and Social/Behavioral Sciences		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
Select one from the following:		3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
Area V: Humanities		
PHIL 1145G	Philosophy, Law, and Ethics	3
or PHIL 2110G	Introduction to Ethics	
Area VI: Creative and Fine Arts [1]		*3*
General Education Elective		
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	3
Viewing A Wider World [3]		**6**
Departmental/College Requirements		
Range Science Core		
RGSC 1110	The Range Science Profession	1
RGSC 2110	Introduction to Rangeland Management	3
RGSC 316	Rangeland Plants	3
RGSC 317	Rangeland Communities	3
RGSC 318	Watershed Management	3
RGSC 325	Rangeland Restoration Ecology	3
RGSC 357	Grass Taxonomy and Identification	3
RGSC 402	Seminar	1
or RGSC 402 H	Range Science Seminar	
RGSC 440	Rangeland Resource Ecology	3
RGSC 440 L	Rangeland Resource Ecology Lab	1
RGSC 452	Vegetation Measurements for Rangeland Assessment	4
RGSC 460	Rangeland and Natural Resource Planning and Management	4
Non-Departmental Requirements (in addition to Gen.Ed/VWW)		
Other Required Courses		
A ST 311	Statistical Applications	3
ANSC 1170	Introduction to Animal Metabolism	3-4
or CHEM 2115	Survey of Organic Chemistry and Laboratory	
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3
EPWS 314	Plant Physiology	3
FWCE 2110	Principles of Fish and Wildlife Management	3
Select one from the following:		4
GEOG 381	Cartography and GIS	
or FWCE 471	GIS for Natural Resource Scientists	
A 300/400-level GIS Course		
SOIL 2110	Introduction to Soil Science	3
SOIL 2110L	Introduction to Soil Science Laboratory	1
SOIL 472	Soil Morphology and Classification	4
Natural Resource Management		
Choose two courses from the following:		6
AEEC 3120V	Natural Resource Economics	
AEEC 3130V	Water Resource Economics	
AEEC 3280	Applied Production Economics	
AEEC 4530	Case Studies in Food and Agribusiness Management	
FWCE 1110G	Introduction to Natural Resources Management	
FWCE 2110	Principles of Fish and Wildlife Management	
FWCE 437	Wildlife Damage Management	
RGSC 302V	Forestry and Society	
ANSC Elective		*3*
ANSC 1120	Introduction to Animal Science	
or ANSC 1120H	Introduction to Animal Science Honors	
ANSC 304	Feeds and Feeding	
ANSC 351V	Agricultural Animals of the World	
ANSC 422	Animal Nutrition	
ANSC 426	Beef Production: Cow-Calf Management	
ANSC 428	Sheep and Wool Production	
ANSC 458	Livestock Behavior, Welfare and Handling	
Second Language: (not required)		
Electives, to bring the total credits to 120 [4]		**12-13**
Total Credits		**120**

1 See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses

2 MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

[3] See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses

[4] Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.