"W" Number:_____
Student Name:_____
Advisor Name:_____

Catalog: 2021-2022 University of Wyoming Catalog
Program: Rangeland Ecology and Watershed Management, B.S.

Rangeland Ecology and Watershed Management, B.S.

Rangeland occupies 47% of the Earth's land area. The 50 million acres of rangeland in Wyoming provide diverse opportunities for the multiple uses of livestock and wildlife grazing, recreation, water production and natural beauty. Students are taught to understand and manage complex rangeland ecosystems.

The rangeland ecology and watershed management curriculum is designed for students choosing to study ecology, utilization and management of rangelands and wildland watersheds and related resources of forestry, recreation, wildlife management, soil science, botany, and zoology. Degrees include Bachelor of Science, Master of Science, and Doctor of Philosophy.

The undergraduate course of study helps students become well prepared for careers in natural resource management (e.g., range management, watershed management, restoration ecology/reclamation of degraded land, wildlife habitat management, ranch management, various types of environmental consulting), or other natural science careers. The curriculum fully meets the Office of Personnel Management (OPM) requirements for Range Conservationist. By appropriate course selection within the elective hours, students will also meet OPM requirements for additional professional work, such as soil conservationist or hydrologist.

Course Requirements

- First-Year Seminar Credits: 3
- US and WY Government Credits: 3
- Electives Credits: 28-29

REWM Courses: 37 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
REWM2000 - Principles of Rangeland Management *	Credits: 3			
REWM2400 - Range Ecosystems and Plants *	Credits: 4			
REWM3000 - Plant Ecophysiology/Plant Form and Function *	Credits: 4			
REWM3100 - Principles of Wildland Water Quality *	Credits: 3			
REWM4100 - Nutritional Ecological Management of Range Herbivores *	Credits: 3			
REWM4285 - Wildland Hydrology *	Credits: 3			
REWM4330 - Rangeland Ecosystem Assessment and Monitoring *	Credits: 4			
REWM4530 - Seminar *	Credits: 1			
REWM4700 - Wildland Watershed Management *	Credits: 3			
REWM4830 - Ecological Applications for Wildland Management *	Credits: 3			
REWM4850 - Rangeland Vegetation Management Techniques *	Credits: 3			
REWM4900 - Rangeland Management Planning *	Credits: 3			

Resource Management: 14-15 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
SOIL2010 - Introduction to Soil Science *	Credits: 4			
SOIL4120 - Genesis, Morphology and Classification of Soils *	Credits: 4			
AGEC4700 - Economics of Range Resources *	Credits: 3			

Choose One From

Course Name	Credits:	Term Taken	Grade	Gen Ed
RNEW4130 - Applied Remote Sensing for Agricultural Management *	Credits: 3			
• BOT 4111 * • BOT 3150 *				

Physical and Natural World: 8 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
LIFE1010 - General Biology	Credits: 4			
CHEM1000 - Introductory Chemistry	Credits: 4			

Biological Sciences: 7 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
LIFE2022 - Animal Biology *	Credits: 4			

OR				
LIFE2023 - Biology of Plants and Fungi *	Credits: 4			
LIFE3400 - General Ecology *	Credits: 3			

Communication Skills: 6 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
• USP Communication 1				
COMM2010 - Public Speaking	Credits: 3			

Quantitative Reasoning: 7 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
MATH1400 - College Algebra	Credits: 3			
STAT2050 - Fundamentals of Statistics	Credits: 4			

Human Culture: 6 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
• Human Culture				
ECON1020 - Principles of Microeconomics	Credits: 3			

Total Hours: 120

*Course must be completed with a C or better.

Notes: