

Rangeland Ecology Watershed Management, BS



University of Wyoming, 2015-16

Freshman Fall Semester			Hrs	Min	Grade	Notes
		USP First-Year Seminar	3		C	FY
ECON	1020	Principles of Microeconomics	3			H; cross listed with AGECE 1020.
ENGL	1010	College Composition and Rhetoric	3		C	C1
LIFE	1010	General Biology *	4		C	PN
MATH	1400	College Algebra **	3		C	Q
Credit hours subtotal:			16			

Freshman Spring Semester			Hrs	Min	Grade	Notes
		USP Human Culture	3			H
		USP US & WY Constitutions	3			V
CHEM	1000	Introductory Chemistry	4		C	PN
COJO	2010	Public Speaking	3			
REWM	2000	Principles of Rangeland Management	3		C	
Credit hours subtotal:			16			

Sophomore Fall Semester			Hrs	Min	Grade	Notes
LIFE	2023	Biology of Plants and Fungi	4		C	Can substitute LIFE 2022 (Animal Biology) or MICR 2021 (General Microbiology).
REWM	2400	Range Ecosystems and Plants	4		C	
		Electives ***	6			
Credit hours subtotal:			14			

Sophomore Spring Semester			Hrs	Min	Grade	Notes
LIFE	3400	General Ecology	3		C	
SOIL	2010	Introduction to Soil Science	4			
STAT	2050	Fundamentals of Statistics	4		C	Can substitute STAT 2070 (Intro Statistics for the Social Sciences).
		Electives ***	3			
Credit hours subtotal:			14			

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • H and PN courses must be taken outside of the major subject, but can be cross-listed with the major.

Rangeland Ecology and Watershed Management Program Notes:

• The UW curriculum in Rangeland Ecology and Watershed Management fully meets the Office of Personnel Management (OPM) requirements for Rangeland Management Specialist. With appropriate course selection within the elective hours, students can also meet OPM requirements for additional professional work, such as soil conservationist or hydrologist.

* Requires MATH ACT \geq 21, MATH SAT \geq 600, Math Placement Exam \geq 2, or \geq C in Math 0921. (University standard)

** Requires MATH ACT \geq 23, MATH SAT \geq 600, Math Placement Exam \geq 3, or \geq C in Math 0925. (University standard)

*** To increase job search marketability, students are advised to consider selecting electives from the list of courses available at: www.uwyo.edu/esm/undergraduate-programs/majors/rangeland-ecology-watershed-management/bs-in-rangeland-ecology-and-watershed-management.html#electives

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Junior Fall Semester

	Hrs	Min Grade	Notes
REWM 3020 Nutritional Management of Grazing Ungulates	4		
REWM 3100 Principles of Water Quality	3	C	
REWM 4330 Rangeland Ecosystem Assessment & Monitoring	3	C	
SOIL 4120 Genesis, Morphology & Classification of Soils	4		
Credit hours subtotal:			14

Junior Spring Semester

	Hrs	Min Grade	Notes
REWM 3000 Plant Ecophysiology	4	C	
REWM 4700 Wildland Watershed Management	3	C	
REWM 4850 Rangeland Vegetation Management Techniques	3	C	
Electives ***	6		
Credit hours subtotal:			16

Senior Fall Semester

	Hrs	Min Grade	Notes
REWM 4285 Wildland Hydrology	3		
REWM 4530 Seminar	1	C	C2; must also take REWM 4830 to successfully complete the C2 requirement for this major.
REWM 4830 Ecological Applications for Wildland Mgmt	3	C	C2; must also take REWM 4530 to successfully complete the C2 requirement for this major.
Resource Management Elective ****	3		
Electives ***	6		
Credit hours subtotal:			16

Senior Spring Semester

	Hrs	Min Grade	Notes
AGEC 4700 Economics of Range Resources	3		
REWM 4900 Rangeland Management Planning	3	C C3	
Electives ***	8		
Credit hours subtotal:			14

TOTAL CREDIT HOURS: 120

Rangeland Ecology and Watershed Management Program Notes con't:

**** **Resource Management elective:** Choose one course from the following:

- BOT 3150 Survey of Remote Sensing Applications (3 hrs)
- BOT 4111 Remote Sensing of the Environment (4 hrs)
- GEOG 4200 Introduction to Geographic Information Systems (4 hrs) (NOTE: Prerequisite of GEOG 2150)
- REWM 4130 Applied Remote Sensing of Agricultural Management (3 hrs)