



Rangeland Ecology & Watershed Management, BS

This sample degree plan is a guide, to be used for planning in consultation with your academic advisor. Actual course sequence may vary by student. A ▲ symbol identifies courses that must be taken and passed during the suggested semester in order for a student to stay on track toward completing the degree program within four years.

Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
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Freshman Fall Semester

		USP First-Year Seminar	3	C	FY
MATH	1400	College Algebra ⁴	3		USP Q
CHEM	1000	Intro Chemistry	4		USP PN
		Communication 1	3	C	USP COM 1
ECON	1020	Prin of Microeconomics	3		USP H, may take AGEC 1020
Credit hours subtotal:			16		

Freshman Spring Semester

		USP US & Wyoming Constitutions	3		USP V
LIFE	1010	General Biology	4	C	USP PN
REWM	2000	Principles of Rangeland Management	3	C	
		Human Culture	3		USP H
		Elective	3		
Credit hours subtotal:			16		

Sophomore Fall Semester

LIFE	2023	Biology of Plants and Fungi	4	C	May also take LIFE 2022 or 2021
REWM	2400	Rangeland Plants and Regions	4	C	Can take same semester as REWM 2000
		Electives	7		
Credit hours subtotal:			15		

Sophomore Spring Semester

LIFE	3400	General Ecology	3	C	
SOIL	2010	Intro to Soil Science	4	C	
STAT	2050	Fundamentals of Statistics	4		
COJO	2010	Public Speaking	3	C	C2
Credit hours subtotal:			14		

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) 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. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (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.

Notes continued on next page(s).

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Junior Fall Semester

REWM	4330	Rangeland Ecosystem Assessment & Monitoring	3	C	
SOIL	4120	Genesis, Morphology & Class of Soils	4	C	
REWM	3100	Principles of Water Quality	3	C	
REWM	4100	Nutritional Ecological Mgt of Range Herbivores	3	C	

Credit hours subtotal: 13

Junior Spring Semester

REWM	4700	Wildland Watershed Management	3	C	
REWM	4850	Rangeland Vegetation Mgmt Techniques	3	C	
REWM	3000	Plant Ecophysiology	4	C	
		Elective	6		

Credit hours subtotal: 16

Senior Fall Semester

REWM	4530	Seminar	1	C	Must also take REWM 4830 for USP COM 2 credit
REWM	4830	Ecological Applications for Wildland Mgmt	3	C	Must also take REWM 4530 for USP COM 2 credit
REWM	4285	Wildland Hydrology	3	C	
RNEW	4130	Applied Remote Sensing Applications*	3	C	May substitute BOT 3150, 4111, or GEOG 4200
		Elective	6		

Credit hours subtotal: 16

Senior Spring Semester

REWM	4900	Rangeland Management Planning	3	C	USP COM 3
AGEC	4700	Economics of Range Resources	3	C	
		Electives	11		

Credit hours subtotal: 17

TOTAL CREDIT HOURS 123

*** 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)

⁴ See the "Prerequisite and MPE Cut Score Reference Chart" on the Math Placement website for the most up-to-date math placement equivalencies: <http://www.uwyo.edu/mathstats/math-placement/>.