



## B.S. Rangeland Ecology & Watershed Management 2020-2021 Catalog

### University of Wyoming B.S. Rangeland Ecology & Watershed Management

Management	cr	Min Grade	Notes
<b>USP - University Studies Program Requirements</b>			
<b>USP: First Year Seminar</b>	3	C	FYS
<b>USP: Communications I</b>	3	C	C1
<b>USP: Communications II</b> COJO 2010 Public Speaking	3	C	C2 - Prereq: successful completion of a COM1 course.
<b>USP: Communications III</b> REWM 4900 Rangeland Management Planning	3	C	C3
<b>USP: US &amp; Wyoming Constitutions</b>	3	C	V
<b>USP: Human Culture</b> ECON 1020 Principles of Microeconomics	3	C	H
<b>USP: Quantitative</b> MATH 1400 College Algebra	3	C	Q - Prereq: grade of C or better in Math 0925 or Level 3 on the Math Placement Exam or Math ACT of 23 or Math SAT of 600.
<b>USP: Physical &amp; Natural World</b> CHEM 1000 Intro Chemistry LIFE 1010 General Biology	4 4	C C	PN - Prereq: Minimum grade of C in MATH 0925, or level 3 on the MPE, or ACT math score of 23 or above. (Normally offered fall semester) PN - Prereq: Math ACT score of 23 or above, or concurrent enrollment or eligibility for concurrent enrollment in MATH 1400 or higher.
<b>Credit hours subtotal:</b>			32
<b>Major Courses</b>			
REWM 2000 Principles of Rangeland Management	3	C	Prereq: LIFE 1001 or 1010.
REWM 2400 Rangeland Plants and Regions	4	C	Prereq: REWM 2000 with a grade of C or better.
REWM 3000 Plant Ecophysiology	4	C	Prereq: LIFE 2022 or LIFE 2023
REWM 3100 Principles of Water Quality	3	C	Prereq: CHEM 1000. (Normally offered fall semester)
REWM 4100 Nutritional Ecological Mgt of Range Herbivores	3	C	Prereq: LIFE 1010 or LIFE 1020.
REWM 4130 Applied Remote Sensing Applications - can sub BOT 3150, 4111, or GEOG 4200	3	C	Not in catalog
REWM 4285 Wildland Hydrology	3	C	Prereq: MATH 1000, MATH 1450, or MATH 1405. (Normally offered fall semester)
REWM 4330 Rangeland Ecosystem Assessment & Monitoring	3	C	Prereq: REWM 2400 and STAT 2050 or STAT 2070. Concurrent enrollment in REWM 2400 and STAT 2050 or STAT 2070 is allowed with permission. (Normally offered fall semester)
REWM 4530 Seminar	1	C	Must also take REWM 4830 for USP COM 2 credit
REWM 4700 Wildland Watershed Management	3	C	Prereq: LIFE 1001 or 1010. (Normally offered spring semester)
REWM 4830 Ecological Applications for Wildland Mgmt	3	C	Must also take REWM 4530 for USP COM 2 credit

REWM 4850 Rangeland Vegetation Mgmt Techniques	3	C	Prereq: C or better in REWM 2000 and SB. (Normally offered spring semester)
<b>Credit hours subtotal:</b>			36
Major Related Courses			
AGEC 4700 Economics of Range Resources	3	C	Prereq: AGECE 1020 or equivalent. (Normally offered spring semester)
STAT 2050 Fundamentals of Statistics	4	C	Prereq: grade of C or better in MATH 1000, 1400 or equivalent.
<b>Credit hours subtotal:</b>			7
Additional Major-Related Courses			
LIFE 2023 Biology of Plants and Fungi - can sub LIFE 2022 or 2021	4	C	Prereq: LIFE 1010 with a grade of C or better. (Normally offered fall semester)
LIFE 3400 General Ecology	3	C	Prereq: completion of LIFE 1010 and one of LIFE 2022, 2023, MICR/MOLB 2021, or MICR/MOLB 2240 with a grade of C or higher in each.
SOIL 2010 Intro to Soil Science	4	C	
SOIL 4120 Genesis, Morphology & Class of Soils	4	C	
<b>Credit hours subtotal:</b>			15
Elective Courses			
General Elective	33	C	
<b>Credit hours subtotal:</b>			33
<b>B.S. Rangeland Ecology &amp; Watershed Management total credit total:</b>			123

**B.S. Rangeland Ecology & Watershed Management Program Notes:**

- A minimum of 120 hours is required.
- A minimum of 42 hours must be upper division (3000 & 4000 level).
- Math, Science & CM Electives must be selected with advisor's approval from Department list. General Electives cannot meet any other requirement for the major. Electives should be selected to satisfy the 42 hour upper division requirement.
- Degree Candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all courses required for the major. • Grades of C or better are required for all prerequisite courses.
- 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.
- Resource Management elective - Choose one course from the following:  
 BOT 3150 Survey of Remote Sensing Applications  
 BOT 4111 Remote Sensing of the Environment  
 GEOG 4200 Introduction to Geographic Information Systems  
 REWM 4130 Applied Remote Sensing of Agricultural Management
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.

The University of Wyoming Office of the Registrar provides final approval of degree completion requirements prior to the awarding of any degree.