

ENVIRONMENTAL SCIENCE AND SUSTAINABILITY B.S. - RESOURCE CONSERVATION

The Resource Conservation concentration provides students with the flexibility to design their own emphasis or to focus more generally on natural resource management and conservation. Students in this concentration complete the ESS core as well as the math, biology, and GIS courses outlined below, and then work with their faculty advisor to select additional coursework based on their interests and professional goals.

General Degree Requirements

To earn a baccalaureate degree, all students must complete successfully, in addition to any other requirements, the University of Montana General Education Requirements. Please refer to the General Education Requirements page (<https://catalog.umt.edu/academics/general-education-requirements/>) for more information.

Additional requirements for graduation can be found on the Degree/Certificate Requirements for Graduation page (<https://catalog.umt.edu/academics/graduation-requirements/>).

Unless otherwise noted in individual program requirements, a minimum grade point average of 2.00 in all work attempted at the University of Montana-Missoula is required for graduation. Please see the Academic Policies and Procedures page (<https://catalog.umt.edu/academics/policies-procedures/>) for information on how your GPA is calculated.

Courses taken to satisfy the requirements of a major, minor, or certificate program must be completed with a grade of C- or better unless a higher grade is noted in the program requirements.

BACHELOR OF SCIENCE - ENVIRONMENTAL SCIENCE AND SUSTAINABILITY; RESOURCE CONSERVATION CONCENTRATION

Course Requirements

Code	Title	Hours
Lower-Division Required Courses		
Complete all of the following courses:		
CHMY 121N	Introduction to General Chemistry	4
COMX 111A or THTR 120A	Introduction to Public Speaking Introduction to Acting I	3
FORS 201 or STAT 216 or WILD 240	Forest Biometrics Introduction to Statistics Intro to Biostatistics	3-4
GPHY 111N & GPHY 112N or NRSM 211N & NRSM 212N	Intro to Physical Geography: Climate, Landforms, and Vegetation and Intro to Physical Geography Laboratory: Climate, Landforms, and Vegetation Soils and Water and Ecology, Physics and Taxonomy of Soils	3-4

NRSM 110	First Year Seminar in Environmental Science and Sustainability ¹	1
NRSM 121S	Environmental Science and Sustainability	3
Resource Conservation Concentration Requirements		
Mathematics		
Complete one of the following courses:		3-4
M 115	Probability and Linear Mathematics	
M 121	College Algebra	
M 122	College Trigonometry	
M 151	Precalculus	
M 162	Applied Calculus	
Biology		
Complete one of the following courses:		3-4
BIOB 160	Principles of Living Systems	
BIOB 170N	Principles of Biological Diversity	
BIOE 172N	Introductory Ecology	
BIOO 105N	Introduction to Botany	
GIS		
Complete the following course:		
FORS 250	Intro to GIS for Forest Mgt	3
Electives		
Complete 36 credits of courses with the following course prefixes:		36
FORS - Forestry		
GPHY - Geography		
NRSM - Natural Resource Management		
PTRM - Parks, Tourism, and Recreation Management		
WILD - Fish, Wildlife Science & Management		
Additional Requirements in Area of Emphasis		
Complete 10 credits of courses with the following course prefixes. Alternatively, students can take two semesters of a foreign language or otherwise demonstrate foreign language proficiency.		10
BIOE - Biology, Ecological		
BIOO - Biology, Organismal		
CHMY - Chemistry		
ENSC - Environmental Science		
ENST - Environmental Studies		
FORS - Forestry		
GEO - Geosciences		
M - Mathematics		
NRSM - Natural Resource Management		
PHSX - Physics		
WILD - Fish, Wildlife Science & Management		
Ecology		
Complete one of the following:		3
BIOE 447	Ecosystem Ecology	
FORS 330	Forest Ecology	
FORS 333	Fire Ecology	
Ethics		
Complete one of the following courses:		3
NRSM 349E	Climate Change Ethics and Policy	
NRSM 389E	Ethics and Sustainability	

Policy		FORS 341	Timber Harvesting & Roads	
Complete one of the following courses: 3		FORS 347	Multiple Resource Silviculture	
NRSM 422	Natural Resource Policy and Administration	FORS 349	Practice of Silviculture	
NRSM 427	Water Policy	FORS 440	Forest Stand Management	
NRSM 428	Climate Policy	FORS 499	Senior Thesis	
WILD 410	Wildlife Policy & Biopolitics	NRSM 326	Climate and Society	
Social Science		NRSM 349E	Climate Change Ethics and Policy	
Complete one of the following courses: 3		NRSM 379	Collaborations in Natural Resource Decisions	
NRSM 326	Climate and Society	NRSM 389E	Ethics and Sustainability	
NRSM 379	Collaborations in Natural Resource Decisions	NRSM 462	Rangeland Ecology	
NRSM 475	Environment & Development	NRSM 465	Foundations of Restoration Ecology	
PTRM 300	Recreation Behavior	NRSM 475	Environment & Development	
Experiential Learning Requirement		NRSM 495	Ecosystem Science and Restoration Practicum	
Complete one of the following courses:		NRSM 499	Senior Thesis	
BIOE 342	Field Ecology	PTRM 300	Recreation Behavior	
BIOE 400	Aquatic Microbial Ecology	WILD 410	Wildlife Policy & Biopolitics	
BIOE 416	Alpine Ecology			
BIOE 439	Stream Ecology			
BIOE 440	Conservation Ecology			
BIOE 451	Landscape Ecology			
BIOE 453	Lake Ecology			
BIOE 458	Forest and Fire Ecology			
ENST 427	Social Issues: The Mekong Delta			
ENST 437	Climate Change: Mekong Delta			
FORS 130	Introduction to Forestry Field Skills			
FORS 440	Forest Stand Management			
GPHY 385	Field Techniques			
NRSM 115	First Year Seminar in Field Studies in Conservation			
NRSM 273	Wilderness and Civilization Field Studies			
NRSM 298	Internship			
NRSM 345	Watershed Dynamics and Management Issues			
NRSM 398	Internship			
NRSM 495	Ecosystem Science and Restoration Practicum			
NRSM 498	Internship			
NRSM 499	Senior Thesis			
PTRM 150	First Year Seminar in Parks, Tourism, and Recreation Management			
PTRM 345X	Sustaining Human Society & Natural Environment			
PTRM 418	Winter Wilderness Field Studies			
PTRM 484	Capstone in Parks, Tourism, and Recreation Management			
WILD 374	Hunter Check Station			
Advanced Writing Requirement				
Complete three of the following courses:				
BIOE 428	Freshwater Ecology			
BIOE 447	Ecosystem Ecology			
FORS 330	Forest Ecology			
		Total Hours		84-88

¹ NRSM 110 is not required for students who declare the major after already earning 60+ credits.