

MONTANA STATE UNIVERSITY - DEPARTMENT OF LAND RESOURCES & ENVIRONMENTAL SCIENCES

Degree Requirements for a B. S. in Environmental Sciences - Land Rehabilitation Option

2016 - 2017 Catalog

Name: _____ **GID#** _____ **Date:** _____ **Graduating Semester:** _____

A minimum of 120 credits is required for graduation; at least 42 of these credits must be in courses numbered 300 and above.

ALL DEPARTMENTAL REQUIREMENTS & THEIR PREREQUISITES MUST BE A GRADE OF C- OR BETTER

GRADUATION WORKSHEETS ARE DUE ONE YEAR BEFORE GRADUATION

DEPARTMENTAL REQUIREMENTS: 86-88 Credits

Subject/#	Course Title	Credits	Semester	Year	EXCEPTIONS
Freshman Year					
ENSC 110	Land Resources & Environmental Sci	3	F		
BIOB 170IN	Principles of Biological Diversity	4	F S (F)		
BIOB 160	Principles of Living Systems	4	F S (S)		
CHMY 141	College Chemistry I	4	F S Su (F)		
CHMY 143	College Chemistry II	4	F S Su (S)		
M 161Q (or higher)	Survey of Calculus	4	F S Su (S)		
WRIT 101W	College Writing I	3	F S Su		
<i>WRIT 101W is waived with an ACT English Score of 28 or higher, an SAT Critical Writing score of 650 or higher, an MUS Writing Assessment of 5.5, or an ACT/SAT essay/writing subscore of 11.</i>					
US Core	University Seminar	3	F S Su		
Sophomore Year		Credits	Semester	Year	EXCEPTIONS
BIOO 230	Identification of Seed Plants	4	S		
ENSC 245IN	Soils	3	F		
ENSC 260	Evolution for Environ Scientists	3	S		
GPHY 262 or GPHY 284	Spatial Sci Tech & Application Intro to GIS Science & Cartography	3 3	S F S (F)		
PHSX 205	College Physics I	4	F S Su (F)		
STAT 216Q (or higher)	Intro to Statistics	3	F S Su (S)		
WRIT 201	College Writing II	3	S		
Univ Core and Electives		8			
Junior Year		Credits	Semester	Year	EXCEPTIONS
ENSC 353	Environmental Biogeochemistry	3	F		
BIOM 452	Soil & Environmental Microbiology	3	S		
ENSC 443	Weed Ecology & Management	3	F		
ENSC 454	Landscape Pedology	3	F		
BIOE 370 or NRSM 240	General Ecology Natural Resource Ecology	3 3	F S F		
Univ Core and Electives		15			
Senior Year		Credits	Semester	Year	EXCEPTIONS
ENSC 410R	Biodiversity Monitoring Methods	3	F		
ENSC 444	Watershed Hydrology	3	F		
ENSC 448	Stream Restoration Ecology	3	F		
ENSC 460	Soil Remediation	3	S		
ENSC 461	Restoration Ecology	3	F		
ENSC 464 or ENSC 465	Computational Techniques Envir Sci Environmental Biophysics I	1 3	S S		
NRSM 430 or PSCI 362	Natural Resource Law Natural Resource Policy	3 3	S S		
ENSC 499R	LRES Capstone	3	F		
Univ Core and Electives		6-8			

Each student shall work closely with their advisor to plan an integrated set of elective courses appropriate to their academic and professional goals.

RESTRICTED ELECTIVES - Choose 20 credits from the following:					
Subject/#	Course Title	Credits	Semester	Year	EXCEPTIONS
AGSC 454	Agrostology	3	F'od		
BIOE 375	Ecol Responses Climate Change	3	S		
BIOE 428	Freshwater Ecology	3	F		
BIOE 455	Plant Ecology	3	S		
BIOO 433	Plant Physiology	3	S		
BIOO 435	Plant Systematics	3	F		
ENSC 407	Environmental Risk Assessment	3	F'od		
ENSC 445	Watershed Analysis	3	S		
ENSC 468	Ecosystem Biogeochem	3	S		
GPHY 357	GPS Fund/App in Mapping	3	F		
GPHY 384	Adv GIS and Spatial Analysis	3	F		
GPHY 484R	Applied GIS & Spatial Analysis	3	S		
NRSM 421	Holistic Thought/Mgmt	4	S		
NRSM 453	Habitat Inventory and Analysis	3	F		
WILD 301	Prin of Fish & Wildlife Mgmt	3	S		

CORE 2.0 REQUIREMENTS - Must be a grade C- or better	Semester	Year	Course
Seminar (US)			
College Writing (W)*			
Quantitative Reasoning (Q)*			
Diversity (D)			
Contemporary Issues in Science (CS)* 2nd IN Course will apply to CS			
Arts (IA or RA)			
Humanities (IH or RH)			
Social Sciences (IS or RS)			
Natural Science (IN or RN)*			
Research & Creative Experience (R, RA, RH, RN or RS)*			

*Satisfied by departmental requirements

Because some courses are offered alternate years, the proposed scheduling of courses in junior and senior years may need to be modified. Work with your advisor for your individual schedule.

LRES Majors: ENSC 490 Undergrad Research, ENSC 492 Independent Study or ENSC 498 Internship is strongly recommended.

Student:	Date:
Advisor:	Date:
Certifying Officer:	Date: