MONTANA STATE UNIVERSITY - DEPARTMENT OF LAND RESOURCES & ENVIRONMENTAL SCIENCES Degree Requirements for a B. S. in Environmental Sciences - Environmental Biology Option 2017 - 2018 Catalog						
Name:	GID#: Da	te:	(Graduating	Semester:	
	dits is required for graduation; at least 42 of t ARTMENTAL REQUIREMENTS & THEIR PREREQ GRADUATION WORKSHEETS ARE DUE ON	UISITES MU	JST BE A GR	ADE OF C- C		
DEPARMENTAL REQUIREMEN	NTS					
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)			
CHMY 141	College Chemistry I	4	F S Su (F)			
BIOB 160	Principles of Living Systems	4	F S (S)			
CHEM 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 (5)			
	waived with an ACT English Score of 28 or hig	-		tina score of	650 or higher	
	an MUS Writing Assessment of 5.5, or an AC				-	
US Core	University Seminar	3	F S Su		•	
Sophomore Year		Credits	Semester	Year	EXCEPTIONS	
ENSC 245	Soils	3	F	Tear	LACEPTIONS	
PHSX 205	College Physics I	4	F S Su (F)			
GPHY 262 or	Spatial Sci Tech & Application	3	S			
GPHY 284	Intro to GIS Science & Cartography	3	F S (F)			
	Intro to Statistics	3	. ,			
STAT 216Q (or higher) or BIOB 318		-	F S Su (F) F			
	Biometry Role of Plants in the Environment	3				
ENSC 210		3	S S			
ENSC 260	Evolution for Environ Scientists	-	-			
WRIT 201	College Writing II	3	F S Su (S)			
Univ Core and Electives			9			
Junior Year		Credits	Semester	Year	EXCEPTIONS	
ENSC 353	Environmental Biogeochemistry	3	F			
NRSM 240 or	Natural Resource Ecology	3	F			
BIOE 370	General Ecology	3	F S			
CHMY 211	Elements of Organic Chemistry	5	F S (S)			
BIOM 452	Soil & Environmental Microbiology	3	S			
ENSC 468	Ecosystem Biogeochemistry Global Change	3	S			
BIOE 422 or	Insect Ecology	3	S'od			
BIOM 415 or	Microbial Diversity, Ecology & Evolution	3	S'ev			
BIOE 455	Plant Ecology	3	S			
Univ Core and Electives	L		.0			
Senior Year		Credits	Semester	Year	EXCEPTIONS	
BIOM 360	General Microbiology	5	F S (F)			
ENSC 444	Watershed Hydrology	3	F			
ENSC 499R	LRES Capstone	3	F			
BCH 380	Biochemistry	5	F S Su (S)			
ENSC 464 or	Computational Techniques Envir Sci	1	S			
ENSC 465	Environmental Biophysics I	3	S			
NRSM 430 or	Natural Resource Law	3	S			
PSCI 362	Natural Resource Policy	3	S			
Restricted Electives			8			

Each student shall work closely with their faculty advisor to plan an integrated set of elective courses appropriate to their academic and professional goals.								
RESTRICTED ELECTIVES - Choose 15-17 Credits from the following:								
Subject/#	Course Title	Credits	Semester	Year	EXCEPTIONS			
AGSC 401	Integrated Pest Management	3	F					
BIOB 375	General Genetics	3	F S Su					
BIOB 420	Evolution	3	S					
BIOE 375	Ecol Responses Climate Change	3	S					
BIOE 405	Behavioral & Evol Ecology	3	S					
BIOE 408	Rocky Mountain Vegetation	3	F					
BIOE 428	Freshwater Ecology	3	F					
BIOM 410	Microbial Genetics	3	S					
BIOM 423	Mycology	3	F'ev					
BIOM 430	Applied & Environ Microbiology	3	S					
BIOM 450	Microbial Physiology	3	F					
BIOM 455R	Research Methods in Microbiology	4	S					
BIOO 412	Animal Physiology	3	F					
BIOO 415	Ichthyology	3	S					
BIOO 433	Plant Physiology	3	S					
BIOO 470	Ornithology	3	S					
BIOO 475	Mammalogy	3	F					
ECNS 332	Econ of Natural Resources	3	F					
ENSC 407	Environmental Risk Assessment	3	F'od					
ENSC 410R	Biodiversity Methods	3	F					
ENSC 443	Weed Ecology and Manangement	3	F					
ENSC 445	Watershed Analysis	3	S					
ENSC 448	Stream Restoration Ecology	3	F					
ENSC 461	Restoration Ecology	3	F					
ENSC 466	Chemical Ecology	3	F					
GPHY 426	Remote Sensing	3	S					
GPHY 429R	Applied Remote Sensing	3	S					
NRSM 421	Holistic Thought/Mgmt	4	S					
NRSM 453	Habitat Inventory and Analysis	3	S					
WILD 301	Princ of Fish & Wildlife Mgmt	3	S					
WILD 438	Wildlife Habitat Ecology	3	S					

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.

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				