MONTANA STATE UNIVERSITY - DEPARTMENT OF LAND RESOURCES & ENVIRONMENTAL SCIENCES

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

2017 - 2018 Catalog

ts is required for graduation; at least 42 o RTMENTAL REQUIREMENTS & THEIR PRER GRADUATION WORKSHEETS ARE DUE	-			
	EQUISITES MU	JST BE A GRA	DE OF C- OR	RETTED
				DLIILN
	ONE YEAR BE	FORE GRADU	ATION	
TS				
Course Title	Credits	Semester	Year	EXCEPTIONS
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	-			50 or higher,
an MUS Writing Assessment of 5.5, or an	ACT/SAT essay	//writing sub	score of 11.	
University Seminar	3	F S Su		
	Credits	Semester	Year	EXCEPTIONS
Role of Plants in the Environment	3	S		
Soils	3	F		
Intro to GIS Science & Cartography	3	F S (F)		
College Physics I	4	F S Su (F)		
Evolution for Environ Scientists	3	S		
College Writing II	3	F S Su (S)		
Intro to Statistics	3	F S Su (S)		
Biometry	3	F		
	9			
	Credits	Semester	Year	EXCEPTIONS
Environmental Biogeochemistry	3	F		
	3	F		
General Ecology	3	F S		
	24			
	Credits	Semester	Year	EXCEPTIONS
Watershed Hydrology	3	F		
, , ,	1	S		
	3	S		
	3	F		
Natural Resource Law	3	S		
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ust be a grade C- or better	Semester	Year	I	Course
e (CS)* 2nd IN Course will apply to CS				
	Course TitleLand Resources & Environmental SciPrinciples of Biological DiversityCollege Chemistry IPrinciples of Living SystemsCollege Chemistry IISurvey of CalculusCollege Writing Ivaived with an ACT English Score of 28 or Ian MUS Writing Assessment of 5.5, or anUniversity SeminarRole of Plants in the EnvironmentSoilsIntro to GIS Science & CartographyCollege Writing IIIntro to StatisticsBiometryEnvironmental BiogeochemistryNatural Resource EcologyGeneral EcologyGeneral EcologyComputational Techniques Envir SciEnvironmental Biophysics ILRES Capstone	Course TitleCreditsLand Resources & Environmental Sci3Principles of Biological Diversity4College Chemistry I4Principles of Living Systems4College Chemistry II4Survey of Calculus4College Writing I3vaived with an ACT English Score of 28 or higher, an SATan MUS Writing Assessment of 5.5, or an ACT/SAT essayUniversity Seminar3Role of Plants in the Environment3Soils3Intro to GIS Science & Cartography3College Writing II3College Writing II3Intro to Statistics3Biometry3Soils3College Writing II3Intro to Statistics3Biometry3Quereal Ecology3Computational Techniques Envir Sci1Environmental Biogeochemistry3Computational Techniques Envir Sci1Environmental Biophysics I3ILRES Capstone3Natural Resource Law3Natural Resource Law3Natural Resource Law3Natural Resource Law3Natural Resource Policy3Use be a grade C- or betterSemester	Course TitleCreditsSemesterLand Resources & Environmental Sci3FPrinciples of Biological Diversity4F S (F)College Chemistry I4F S Su (F)Principles of Living Systems4F S (S)College Chemistry II4F S Su (S)Survey of Calculus4F S Su (S)College Writing I3F S Suvaived with an ACT English Score of 28 or higher, an SAT Critical Writian MUS Writing Assessment of 5.5, or an ACT/SAT essay/writing sub-University Seminar3F S SuSoils3FIntro to GIS Science & Cartography3F S (F)College Writing I3F S (F)College Physics I4F S Su (S)Intro to GIS Science & Cartography3F S (F)College Writing II3F S Su (S)Intro to Statistics3FBiometry3F S99CreditsBemesterEnvironmental Biogeochemistry3FNatural Resource Ecology3FQeneral Ecology3FVatershed Hydrology3FNatural Resource Law3SNatural Resource Law3SNatural Resource Law3SNatural Resource Dolicy3FUniversitional Techniques Envir Sci1SEnvironmental Biophysics I3SUniversitional Techniques Envir Sci1S<	Course TitleCreditsSemesterYearLand Resources & Environmental Sci3FImage: Science and

*Satisfied by departmental requirements

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 - Ch						
Subject/#	Course Title	F	S	Year	EXCEPTIONS	
AGSC 401	Integrated Pest Management	3				
AGSC 428	Sustainable Cropping Systems		3			
BIOE 375	Ecological Response Climate Change		3			
BIOE 408	Rocky Mountain Vegetation	3				
BIOE 416 (Summer)	Alpine Ecology		3			
BIOE 422 (odd years)	Insect Ecology		3			
BIOE 428	Freshwater Ecology	3				
BIOE 455	Plant Ecology		3			
BIOM 415 (even years)	Microbial Diver, Ecology & Evol		3			
BIOM 452	Soil & Environ Microbiology		3			
ENSC 407	Environmental Risk Assessment	3				
ENSC 410R	Biodiver Surv & Monitor Methods	3				
ENSC 443	Weed Ecology & Management	3				
ENSC 445	Watershed Analysis		3			
ENSC 448	Stream Restoration Ecology	3				
ENSC 460	Soil Remediation		3			
ENSC 461	Restoration Ecology	3				
ENSC 466	Chemical Ecology	3				
ENSC 468	Ecosystem Biogeochemistry		3			
ERTH 307	Prin of Geomorphology	3				
ERTH 432R	Surface Water Resouces		3			
GPHY 357	GPS Fund/Apps in Mapping	3				
GPHY 384	Adv GIS & Spatial Analysis	3	3			
GPHY 426	Remote Sensing		3			
GPHY 429R	Applied Remote Sensing		3			
GPHY 457	Adv GPS Mapping for GIS	3				
GPHY 484R	Applied GIS & Spatial Analysis		3			
NRSM 421	Holistic Thought & Management		4			
NRSM 455	Riparian Ecololgy & Management		3			
WILD 438	Wildlife Habitat Ecology		3	1		

FREE ELECTIVES - Choose 18-20 credits of free electives, 15 of which must be 300/400 level.							
Subject/#	Course Title	Credits	Semester	Year	EXCEPTIONS		

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.

August 2017