

MONTANA STATE UNIVERSITY - COLLEGE OF AGRICULTURE

Department of Land Resources & Environmental Sciences

Degree Requirements for a B.S. in Land Rehabilitation

2012-2014 Catalog Curriculum: LAND

Name: ID#: Date: Graduating Semester:

Total semester credits must equal a minimum of 120 credits; Total upper division must equal a minimum of 42 credits

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

APPLICATIONS FOR BACCALAUREATE ARE DUE ONE YEAR BEFORE GRADUATION!

DEPARTMENTAL REQUIREMENTS

Subject/#	Course Title	Cr	Sem	Year	SUB/Transfer/Comments
ENSC 110	Land Res & Environ Sci	3	F		
BIOB 170IN	Prin Biological Diversity	4	F S		
BIOB 160	Prin of Living Systems	4	F S		
CHMY 141	General Chemistry I	4	F S Su		
CHMY 143	General Chemistry II	4	F S Su		
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>					
ERTH 101IN	Earth System Science	4	F S		
Take one of the following:					
M 161Q	Survey of Calculus	4	F S Su		
M 165Q	Calculus Technology I	3	F S		
M 171Q	Calculus I	4	F S Su		
<i>Students who anticipate graduate study or technical employment are strongly advised to complete a two-semester calculus sequence 165-166 or 171-172</i>					
Take one of the following:					
NRSM 240	Natural Res Ecology	3	F		
BIOE 370	General Ecology	3	S		
BIOO 230	ID of Seed Plants	4	S		
ENSC 245IN	Soils	3	F		
GPHY 284	Intro GIS & Cartography	3	F S		
PHSX 205	College Physics I	4	F S Su		
Take one of the following:					
BIOB 318	Biometry	3	F		
STAT 216Q	Intro to Statistics	3	F S Su		
WRIT 201	College Writing II	3	F S		
ENSC 353	Environmental Biogeochemistry	3	F		
Take one of the following:					
AGSC 454	Agrostology	3	F		
BIOO 435	Plant Systematics	3	F'ev		
GPHY 384	Adv GIS & Spatial Analysis	3	F S		
ENSC 410R	Biodiversity Survey & Monitoring	3	F		
ENSC 443	Weed Ecology & Mgmt	3	F		
ENSC 444	Watershed Hydrology	3	F		
ENSC 448	Stream Restoration Ecology	3	F		
BIOM 452	Soil & Environ Microbiology	3	S'od		
ENSC 454	Landscape Pedology	3	F		
ENSC 460	Soil Remediation	3	S		
ENSC 461	Restoration Ecology	3	F		
ENSC 465	Environmental Biophysics	3	S		
NRSM 430	Natural Resource Law	3	S		
ENSC 499R	Capstone	3	F		

ADVANCED ELECTIVE COURSES - take 12 credits					
Students must work with their advisor to develop a list of advanced courses based on academic and professional goals. Before their Senior year, and before taking any of the proposed credits, students must submit this list together with a written statement justifying the courses selected for approval by the department. Take 12 credits from the following electives.					
Subject/#	Course Title	Cr	Semester	Year	SUB/Transfer/Comments
ENSC 407	Environmental Risk Assessment	3	F'od		
ENSC 445	Watershed Analysis	3	S		
ERTH 432R	Surface-Water Resource	3	F'od		
ENSC 468	Ecosystem Biogeochemistry/Global Change	3	S		
BIOE 428	Freshwater Ecology	3	F		
BIOO 433	Plant Physiology	3	S		
BIOE 455	Plant Ecology	3	S		
NRSM 421	Holistic Thought & Mgmt	4	S		
NRSM 453	Habitat Inventory& Analysis	3	F		
GPHY 357	GPS Fund Apps in Mapping	3	F		
GPHY 484R	Appl GIS & Spatial Analys	3	S		
WILD 301	Principles of F&WL Mgmt	3	S		

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

Core 2.0 Requirements (Must be a grade C- or better)	
University Seminar (US)	
College Writing (W)	
Quantitative Reasoning (Q)	
Diversity (D)	
Contemp Issues in Science (CS)	
Arts (IA, RA)	
Humanities (IH, RH)	
Natural Sciences (IN, RN)	
Social Sciences (IS or RS)	
Research (R, RA, RH, RN, RS)	

Completion of UH 202 satisfies the IH requirement.

Completion of at least two of the following courses satisfies both the CS and the IN requirements:

BIOB 110, 160, 170, 256, 258, 260;
 BIOH 201 211; BIOM 210, 250; BIOO 220;
 CHMY 121, 123, 141, 143, 151, 153, 211;
 EARTH 101; ENSC 245; GEO 103, 205, 211;
 NRSM 240;
 PHSX 205, 207, 220, 222, 224, 240, 242;

Total Credits:	Upper Division:
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Student Signature	Date
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Advisor Signature	Date
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Dept. Certifying Officer Signature	Date
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