

MONTANA STATE UNIVERSITY - COLLEGE OF AGRICULTURE
Department of Land Resources & Environmental Sciences
Degree Requirements for a B.S. in Land Resource Sciences/Agroecology Option
2006-2008 Catalog

Name of Student: _____ ID# _____ Curriculum Code: LLAG

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

DEPARTMENTAL REQUIREMENTS		CR:		
Dept/#	Subject	Sem	Year	Cr
LRES 110	Land Resources & Environ Sci	F		3
BIOL 101IN	Organismal Biology	F S		4
BIOL 102 <i>or</i>	Molecular & Cellular Biology	F S		4
PSP 102CS	Plant Sci Resources & Environ	S		3
CHEM 131	General Chemistry I	F S Su		4
CHEM 132	General Chemistry II	F S Su		4
ECON 101IS	Econ Way of Thinking	F S Su		3
ENGL 121W	College Writing I	F S		3
<i>ENGL 121W is waived with an ACT English Score of 27 or higher, or an SAT Verbal Score of 640 or higher.</i>				
MATH 170Q <i>or</i>	Survey of Calculus	F S Su		4
MATH 175Q <i>or</i>	Calculus Tech I	F S		3
MATH 181Q	Calculus Analytical Geometry	F S Su		4
<i>Students who anticipate graduate study or technical employment are strongly advised to complete a two-semester calculus sequence MATH 175 - 176 or MATH 181 - 182</i>				
ARNR 240 <i>or</i>	Natural Res Ecology	F		3
BIOL 303	Principles of Ecology	S		3
CHEM 215	Elements Organic Chemistry	F S		5
ENGL 221 <i>or</i>	College Writing II	F S		3
ENGL 223	Technical Writing	F S		3
LRES 201N	Soil Resource	F		3
PHYS 205	College Physics I	F S Su		4
STAT 216Q <i>or</i>	Elementary Statistics	F S Su		3
PSP 318	Biometry	F		3
BCHM 340	General Biochemistry	F S Su		5
BIOL 301	Principles of Genetics	F S		3
LRES 310	Professional Preparation	S		1
LRES 351	Nutrient Cycling	S		3
MB 301	General Microbiology	F S		5
PSP 341 <i>or</i>	Field Crop Production	S'ev		3
PSP 342	Forages	F		3
LRES 401	Integrated Pest Mgmt	S'ev		3
LRES 428	Crop Systems Sustainable Ag	S'od		3
LRES 441R	Capstone 1 Field Applic LRES	S		2
LRES 442R	Capstone 2 Field Applic LRES	F		2
LRES 443	Weed Ecology & Mgmt	F		3
PSP 421	Concepts Plant Pathology	S		3

An independent research project or internship is strongly recommended for LRES majors: LRES 470 Independent Study; LRES 476 Internship; LRES 490 Undergrad Research

DEPARTMENTAL REQUIREMENTS Continued				
Dept/#	Subject	Sem	Year	Cr
Take 3 of the following:				
LRES 357	GPS Fund Applic Mapping	F S		3
LRES 426	Remote Sens Digital Imaging	F		3
GEOG 305	GIS & Spatial Analysis	F S		3
GEOG 411	Adv GIS & Spatial Analysis	S		3

Take 2 of the following:				
LRES 421	Holistic Thought & Mgmt	S		4
ECON 332	Econ of Natural Resources	F		3
POLS 350	Natural Resource Policy	S'ev		3

Take 3 of the following:				
LRES 415	Micro Divers Ecol Evol	S'ev		3
LRES 452	Soil & Environ Microbiology	S'od		3
BIOL 403	Evolution	S		3
BIOL 430	Plant Physiology	S		3
BIOL 432	Plant Anatomy	F'od		3
BIOL 436	Plant Systematics	F'ev		3

SUBSTITUTIONS FOR REQUIRED COURSES					
Dept/#	Subject	Cr	for	Dept/#	Cr

CORE 2.0 REQUIREMENTS				
All Core 2.0 requirements must be a grade of C- or better				
Dept/#	Course Title	Credits	Sem	Year
Foundation Courses				
Seminar (US) 1 course				
Diversity (D) 1 course				
Writing (W) 1 course (met by departmental requirements)				
ENGL 121W	College Writing I	3		
Quantitative Reasoning (Q) 1 course (met by departmental requirements)				
Contemporary Issues in Science (CS) 1 course (met by departmental requirements)				
Ways of Knowing: Inquiry & Research & Creative Experience				
Arts (IA or RA) 1 course				
Humanities (IH or RH) 1 course				
Social Sciences (IS or RS) 1 course (met by departmental requirements)				
ECON 101IS	Economic Way of Thinking	3		
Natural Science (IN or RN) 1 course (met by departmental requirements)				
Research & Creative Experience (R,RA, RH, RN or RS) 3 credits (met by departmental requirements)				
(Courses designated RA, RH, RN, or RS double count. For example, a course designated as RA will satisfy both the Arts and the Research and Creative Experience requirements.)				
LRES 441/442	Capstone 1 & 2 Field Applic in LRES	4		
<p>1. A grade of C- or better is required in all core courses.</p> <p>2. Completion of UH 202 with a grade of C- or better satisfies the Humanities Inquiry requirement.</p> <p>3. Completion of at least two of the following courses with a grade of C- or better satisfies both the CS and the IN requirements: ARNR 240; BCHM 122; BIOL 101, 102, 204, 207, 208, 213, 214, 215, 251; CHEM 121, 131, 132, 141, 142, 215; ESCI 111, 112; GEOL 102, 204, 210; LRES 201; MB 201; MBEH 210; PHYS 205, 206, 211, 212, 213, 221, 222; PSPP 102.</p>				

Total Credits: _____ Upper Division: _____

Student Signature Date

Advisor Signature Date

Dept. Certifying Officer Signature Date