

MONTANA STATE UNIVERSITY - DEPARTMENT OF LAND RESOURCES & ENVIRONMENTAL SCIENCES

Degree Requirements for a B. S. in Sustainable Foods & Bioenergy Systems - Agroecology Option

2014 - 2015 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: 89 Credits

Subject/#	Course Title	Credits	Semester	Year	EXCEPTONS
Freshman Year					
ENSC 110	Land Resources & Environmental Sciences	3	F		
SFBS 146	Intro Sust Food/Bioenergy Systems	3	S		
BIOB 170IN	Ppinciples Biological Diversity	4	F S (S)		
BIOB 110CS	Introduction to Plant Biology	3	S		
CHMY 141	College Chemistry I	4	F S Su (F)		
M 121Q	College Algebra	3	F S Su (F)		
ECNS 101IS	Economic Way of Thinking	3	F S Su (F)		
WRIT 101W	College Writing	3	F S Su (F)		
University Core and Electives	US Seminar recommended	3	F S		
Sophomore Year		Credits	Semester		
BIOB 160	Principles of Living Systems	4	S		
CHMY 143	College Chemistry II	4	S		
Choose one:					
BCH 104RN	Biochem of Health Non-Sci Majors	4	S		
CHMY 123	Intro to Organic Biochemistry	4	F S Su (S)		
CHMY 211	Elements of Organic Chemistry	5	F S (S)		
ECHM 205CS	Energy & Sustainability	3	F S (F)		
ENSC 245IN	Soils	3	F		
GPHY 284	Intro to GIS Science & Cartography	3	F S (S)		
NUTR 221CS	Basic Human Nutrition	3	F S Su (F)		
NUTR 226	Food Fundamentals	3	S		
SFBS 298 or	Internship	3	F S Su (S)		
SFBS 296	Practicum: Towne's Harvest Garden	3	Su		
Junior Year		Credits	Semester		
BIOB 318 or	Biometry	3	F		
STAT 216Q	Introduction to Statistics	3	F S Su (F)		
NRSM 240 or	Natural Resource Ecology	3	F		
BIOE 370	General Ecology	3	S		
ENSC 353	Environmental Biogeochemistry	3	F		
NUTR 351	Nutrition & Society	3	F		
Choose one:					
ECNS 204IS	Microeconomics	3	F S Su (S)		
AGBE 315	Ag in a Global Context	3	S'ev		
NRSM 421	Holistic Thought & Management	4	S		
University Core and Electives		14-15			
Senior Year		Credits	Semester		
Choose two:					
AGSC 401	Integrated Pest Management	3	F		
AGSC 428	Sustainable Cropping Systems	3	S		
BIOM 421	Concepts of Plant Pathology	3	S		
ENSC 443	Weed Ecology & Management	3	F		

Senior Year Continued					
Subject/#	Course Title	Credits	Semester	Year	EXCEPTONS
Choose one:					
BIOE 455	Plant Ecology	3	S		
BIOO 433	Plant Physiology	3	S		
BIOM 452	Soil & Environmental Microbiology	3	S'od		
ENSC 468	Ecosystem Biogeochemistry Global Change	3	S		
SFBS 498	Internship	3	F S Su		
SFBS 499	Senior Thesis/Capstone	3	F		
University Core and Electives		12			

RESTRICTED ELECTIVES - Choose a minimum of 16 credits of the following					
Subject/#	Course Title	Credits	Semester	Year	EXCEPTIONS
AGSC 341	Field Crop Prod	3	S'ev		
AGSC 342	Forages	3	F		
BIOB 375	General Genetics	3	F S Su		
BIOE 422	Insect Ecology	3	S'od		
BIOE 370	General Ecology (equiv to 270)	3	S		
BIOE 375	Ecol Responses Climate Change	3	S		
BIOM 360	General Microbiology	5	F S		
ENSC 407	Environmental Risk Assessment	3	F'od		
ENSC 410R	Biodiversity Methods	3	F		
GPHY 384	Adv GIS and Spatial Analysis	3	F		
GPHY 484R	Applied GIS & Spatial Analysis	3	S		
HORT 337	Vegetable Production	3	F'od		
HORT 345	Organic Market Gardening	3	Su		
NASX 415	Native Food Systems	3	F'ev		
PSCI 406	Political Economy of Energy	3	F'od		
PSCI 436	Politics of Food and Hunger	3	S		
SFBS 346	SFBS Field Course	2	Su		
SFBS 445R	Culinary Marketing: Farm/Table	3	Su		
SFBS 451R	Sustainable Food Systems	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

Student: _____ Date: _____

Advisor: _____ Date: _____

Certifying Officer: _____ Date: _____