MONTANA STATE UNIVERSITY - DEPARTMENT OF LAND RESOURCES & ENVIRONMENTAL SCIENCES Degree Requirements for a B. S. in Sustainable Foods & Bioenergy Systems - Agroecology Option 2017 - 2018 Catalog									
	2017 - 2018 (Catalog							
Name:	GID#:	Date: Graduating			ng 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									
DEPARMENTAL REQUIRE	MENTS: 86 Credits								
Subject/#	Course Title	Credits	Semester	Year	EXCEPTONS				
Freshman Year									
ENSC 110	Land Resources & Environmental Sciences	3	F						
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)						
SFBS 146	Intro Sust Food/Bioenergy Systems	3	S						
BIOB 170IN	Pprinciples Biological Diversity	4	F S (S)						
BIOB 110CS	Introduction to Plant Biology	3	S						
US Core	University Seminar	3	F S						
Sophomore Year		Credits	Semester						
ENSC 245IN	Soils	3	F						
NUTR 221CS	Basic Human Nutrition	3	F S Su (F)						
BIOB 160	Principles of Living Systems	4	S						
CHMY 143	College Chemistry II	4	S						
CHMY 123 or	Intro to Organic Biochemistry	4	F S Su (S)						
CHMY 211	Elements of Organic Chemistry	5	F S (S)						
ENSC 210 or	Role of Plants in the Environment	3	S S						
ECHM 205CS	Energy & Sustainability	3	F S (F)						
GPHY 284	Intro to GIS Science & Cartography	3	F S (S)						
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 3 30 (F)						
BIOE 370	General Ecology	3	F S						
ENSC 353	Environmental Biogeochemistry	3	F						
NUTR 351	Nutrition & Society	3	F						
SFBS 327	Measure innovation in Food Systems	3	F						
AGSC 341	Field Crop Production	3	г S'ev						
Choose one:		5	360						
ECNS 204IS	Microeconomics	3	F S Su (S)						
	Ag in a Global Context	3	S' ev						
AGBE 315									
NRSM 421 SFBS 429	Holistic Thought & Management	4	S F						
	Small Bus & Entreprenure Food Health	3	F						
SFBS 466	Food Syst Resilience, Vulnerab & Trans	3	S						

Senior Year					
Subject/#	Course Title	Credits	Semester	Year	EXCEPTONS
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		
Choose one:					
BIOE 455	Plant Ecology	3	S		
BIOO 433	Plant Physiology	3	S		
BIOM 452	Soil & Environmental Microbiology	3	S		
ENSC 468	Ecosystem Biogeochem Global Change	3	S		
SFBS 498	Internship	3	F S Su		
SFBS 499	Senior Thesis/Capstone	3	F		
Univ Core and Electives			15		
RESTRICTED ELECTIVES - C	hoose a minimum of 15 credits of the follow	/ing			
Subject/#	Course Title	Ser	nester	Year	EXCEPTIONS
ANSC 222	Livestock in Sustain Systems	3	S		
ECNS 132	Econ & the Environment	3	on demand		
AGSC 342	Forages	3	F		
BIOB 375	General Genetics	3	F S Su		
BIOE 422	Insect Ecology	3	S'od		
BIOE 375	Ecol Responses Climate Change	3	S		
BIOM 360	General Microbiolgy	5	FS		
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			