

**Montana State University**  
**COLLEGE OF AGRICULTURE**  
**B.S. in Natural Resources and Rangeland Ecology**

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Date: \_\_\_\_\_

A minimum of 120 credits is required to graduate, 42 must be 300 level or above.

DEPARTMENTAL REQUIREMENTS FOR THIS OPTION						CREDITS: 93
Dept/Course #	Course Title	Credits	Class/Semester		Year	Sub/Transfer
ARNR 100	Intro Animal Science	3	FR	S		
ARNR 101	Natural Resource Conservation	3	FR	F		
ARNR 102	Prin of Rangeland Mgmt Lab	1	FR	F		
ARNR 230	Range Livestock Production	3	SO	S		
ARNR 235	Rangeland Monitoring	1	SO	F		
ARNR 240	Natural Resource Ecology	3	SO	F		
ARNR 345	Riparian Ecology & Management	3	SR	S		
ARNR 350	Vegetation of Western Wildlands	3	JR	S		
ARNR 351	Biomes of Western Wildlands	2	JR	S		
ARNR 353	Grazing Ecology & Management	3	JR	S		
ARNR 354	Fire Ecology & Management	3	JR	F		
ARNR 403 RN	Sustainable Animal & Resource Mgmt	3	SR	S		
ARNR 438	Wildlife Habitat Ecology	3	SR	S		
ARNR 453	Habitat Inventory & Analysis	3	SR	F		
ARNR 456	Conflict Resolution Natrl Res Mgmt	1	SR	F		
AGED 251 US OR COM 110 US	Leadership Dev for Ag & Ind Employee Public Communication	3 3	FR FR	FS (S) FSSu (S)		
BCHM 122	Organic & Biochemical Princ	4	SO	FSSu (S)		
BIOL 101	Organismal Biology	4	FR	FS (F)		
BIOL 230	Identification of Seed Plants	4	SO	S		
BIOL 303	Principles of Ecology	3	SR	S		
BUS 201 OR ENGL 221 OR ENGL 223	Managerial Communication College Writing II Technical Writing	3 3 3	SO SO SO	FSSu (F) FS (F) S		
CHEM 121 IN	Intro General Chemistry	4	FR	FSSu (F)		
ECON 101 IS	Economic Way of Thinking	3	FR	FSSu (F)		
ENGL 121 W	College Writing I	3	FR	FSSu (F)		
F&WL 301	Principles of F&WL Management	3	JR	S		

GEOG 305 OR LRES 357	Geographic Information Sci & Sp/Analy GPS Fundamentals & Appl in Mapping	3 3	JR JR	FS (F) FS (F)		
LRES 201	Soil Resource	3	SO	F		
LRES 454	Pedology	3	SR	F		
MATH 160 Q OR MATH 170 Q	Pre-Calculus Survey of Calculus	4 4	FR FR	FSSu (S) FSSu (S)		
PSPP 318 OR STAT 216 Q	Biometry Elementary Statistics	3 3	SO SO	F FSSu (S)		
PSPP 450	Plant Physiology	3	SR	S		
PSPP 454 OR PSPP 456	Agrostology (Alt Yrs 2007) Plant Systematics (Alt Yrs 2006)	3 3	JR JR	F F		
<b>MUST CHOOSE ONLY ONE OPTION BELOW TO COMPLETE:</b>						
<i>RANGELAND ECOLOGY AND MANAGEMENT OPTION</i>				<i>CREDITS REQUIRED: 14-16</i>		
ARNR 325	Wildlife-Livestock Range Nutrition	3	JR	S		
LRES 461	Restoration Ecology	3	JR	F		
PSPP 342	Forages	3	SO	F		
<b>CHOOSE 6 CREDITS FROM THE FOLLOWING:</b>						
AGEC 210	Economics of Ag Business	3	JR	S		
ARNR 232 OR ARNR 234	Applied Technique Lvstk Mgmt-Sheep Applied Technique Lvstk Mgmt-Beef	1 1	SO SO	S S		
ARNR 320	Animal Nutrition	4	SR	F		
ARNR 337	Diseases of Domestic Livestock	3	JR	S		
ARNR 410	Veterinary Entomology	2	JR	S		
ARNR 432 OR ARNR 434	Sheep Management Beef Cattle Management	3 4	SR SR	S F		
BIOL 439	Stream Ecology	3	SR	F		
ESCI 111	Physical Geology	4	FR	FSSu		
LRES 421	Holistic Thought & Management	4	SR	S		
LRES 443	Weed Ecology & Management	3	SR	F		
LRES 444	Watershed Hydrology	4	SR	F		



**CORE 2.0 (Beginning 2004)**

<b>Diversity (D)</b>	
<b>Quantitative Reasoning (Q)</b>	
<b>Seminar (US)</b>	
<b>Writing (W)</b>	
<b>Inquiry Arts (IA)</b>	
<b>Inquiry Humanities (IH)</b>	
<b>Inquiry Natural Science (IN)</b>	
<b>Inquiry Social Science (IS)</b>	
<b>Contemporary Issues in Science (CS)</b>	
<b>Research &amp; Creative Exper. (R, RA, RH, RS, RN)</b>	

Completion of at least **two** of the following courses with a grade of C- or better satisfies both the Contemporary Issues in Science and the Natural Science Inquiry requirements: ARNR 240; BCHM 122; BIOL 101, 102, 207, 208, 209, 210, 211, 213, 214, 215, 251; CHEM 121, 131, 132, 141, 142, 215; ENTO 204; ESCI 111, 112; GEOL 102, 204, 210; LRES 201; MB 201; MBEH 210; PHYS 205, 206, 211, 212, 213, 221, 222; PS 102

Total Credits: \_\_\_\_\_

Upper Division: \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Certifying Officer: \_\_\_\_\_ Date: \_\_\_\_\_