2008-2010 Catalog Fall 2009 **Montana State University** **Science**

New course numbers

COLLEGE OF AGRICULTURE

B.S. in Animal Science

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: 76-78
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	Montana Range Plants Lab	1	FR	F		
ARNR 230	Range Livestock Production	3	SO	S		
ARNR 240	Natural Resource Ecology	3	SO	F		
ARNR 320	Animal Nutrition	4	JR	F		
ARNR 321	Physiology of Reproduction	4	JR	F		
ARNR 322	Principles of Animal Breeding & Genetics	3	JR	S		
ARNR 400 AND ARNR 489/490R **OR** ARNR 476	Seminar Undergrad Research/Instruction Internship	1 4 3	SR JR	S FS FSSu		
AGED 251 US OR COM 110 US	Leadership Dev for Ag & Ind Employee Public Communicationn	3 3	FR FR	FS (F) FSSu (F)		
BCHM 340	General Biochemistry	5	JR	FSSu (F)		
BIOL 101 IN	Organismal Biology	4	FR	FS (F)		
BIOL 102	Molecular and Cellular Biology	4	FR	FS (S)		
CHEM 131 **CHMY 141**	General Chemistry I College Chemistry I	4	FR	FSSu (F)		
CHEM 132 **CHMY 143**	General Chemistry II College Chemistry II	4	FR	FSSu (S)		
CHEM 215 **CHMY 211**	Elements Organic Chemistry	5	SO	FS (S)		
ENGL 121 W **WRIT 101 W**	College Writing I	3	FR	FSSu (F)		
BUS 201 OR ENGL 223 **WRIT 221**	Managerial Communication Technical Writing Intermediate Tech Writing	3 3	SO SO	FSSu (F) FS		
MATH 170 Q **M 161 Q**	Survey of Calculus	4	SO	FSSu (F)		
PSPP 318 OR STAT 216 Q	Biometry Elementary Statistics	3 3	SO SO	F FSSu (S)		
VTMB 101 CS	Intro to Biotech	3	SO	F		
VTMB 271	Functional Anatomy of Dom Animals	4	SO	F		

LIVESTOCK MANAGEMENT ELECTIVES						CREDITS REQUIRED: 6
ARNR 316	Meat Science	4	JR	S		
ARNR 331	Swine Production (Alt Yrs 2009)	3	SR	F		
ARNR 430	Horse Management	4	SR	S		
ARNR 432	Sheep Management	3	SR	S		
ARNR 434R	Beef Cattle Management	4	SR	F		
RESTRICTED ELECTIVES						CREDITS REQUIRED: 12
ARNR 337	Diseases of Domestic Livestock	3	JR	S		
ARNR 410	Veterinary Entomology (Alt Yrs 2010)	2	SR	S		
BIOL 301	Principles of Genetics	3	JR	FS (F)		
BIOL 310	Comp Vertebrate Anatomy	4	JR	S		
BIOL 311	Developmental Biology	4	JR	S		
BIOL 312	Histology (On Demand)	3	JR	F		
BIOL 411	Animal Physiology	3	JR	F		
MB 301	General Microbiology	5	JR	FS		
PHYS 205	College Physics I	4	JR	FSSu		
PHYS 206	College Physics II	4	JR	FSSu		
FREE ELECTIVES						

CORE 2.0 (Beginning 2004)

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

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: _____