## **Equine Science**

## Montana State University 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.

DEPARTMENTA	AL REQUIREMENTS FOR THIS OPTION	N				CREDITS: 73
Dept/Course #	Course Title	Credits	Class	S/Semester	Year	Sub/Transfer
AGED 140 US OR	Leadership Dev for Agriculture	3	FR	FS (F)		
COMX 111US	Intro to Public Speaking	3	FR	FS (F)		
ANSC 100	Intro Animal Science	3	FR	FS		
BIOB 160	Princ of Living Systems	4	FR	FS (S)		
CHMY 121 IN & CHMY 122IN	Intro General Chemistry Intro General Chemistry Lab	3 1	FR	FSSu (F)		
ECNS 101 IS	Economic Way of Thinking	3	FR	FSSu (S)		
NRSM 101	Natural Resource Conservation	3	FR	F		
NRSM 102	Montana Range Plants Lab	1	FR	F		
WRIT 101 W	College Writing I	3	FR	FSSu (F)		
ANSC 202	Livestock Feeding & Nutrition	3	so	F		
ANSC 222	Livestock in Sustainable Systems	3	SO	S		
ANSC 265	Anatomy & Phys of Dom Animals	3	SO	S		
ANSC 266	Anatomy & Phys of Dom Animals Lab	1	SO	S		
BIOB 318 OR	Biometry	3	SO	F		
STAT 216 Q	Elementary Statistics	3	SO	FSSu(S)		
BMGT 205 OR	Prof Business Communication	3	SO	FSSu (F)		
WRIT 221	Intermed Tech Writing	3	SO	FS (F)		
CHMY 123 & CHMY 124	Intro to Organic/Biochem Intro to Organic/Biochem Lab	3	SO	FSSu (F)		
EQUS 206	Equine Ethology: Understanding Horse Behavior	3	so	F		
NRSM 236	Small Pasture Management	1	SO	S		
NRSM 240	Natural Resource Ecology	3	SO	F		
AGBE 210IS	Economics of Agricultural Business	3	JR	S		
ANSC 320	Animal Nutrition	3	JR	F		
ANSC 321	Physiology of Reproduction	4	JR	F		
ANSC 322	Principles of Animal Breeding & Genetics	3	JR	S		
ANSC 337	Diseases of Domestic Livestock	3	JR	S		
EQUS 347	Equine Form to Function	3	JR	S		
EQUS 498 or EQUS 490R	Internship Undergrad Research	3	SR	FSSu		

APPLIED COUR	SES				TAKE 2 COURSES
EQUH 110	Western Equitation	2	FR	FS	
EQUH 114	Horsemanship I	2	FR	FS	
EQUH 133	Horses: Ground Level	2	FR	FS	
EQUH 207	Intermediate English Equitation	2	so	S	
EQUH 210	Intermediate Western Equitation	2	SO	FS	
EQUH 253	Starting Colts	2	SO	F	
EQUH 256	Developing the Young Horse	2	SO	S	
EQUH 314	Equestrian Instruction Methods	2	JR	FS	
EQUS 233	Horse Science & Mgmt Lab	2	SO	F	
ANSC 308	Livestock Evaluation	2	SO	FS	
NRSM 235	Range and Pasture Monitoring	1	so	F	
EQUINE SCIENC	CE ELECTIVES				TAKE 2 COURSES
EQUS 327	Equine Lameness	3	SR	F	
EQUS 346	Equine Reproduction Mgmt	4	SR	S	
EQUS 423	Equine Nutrition	3	SR	F	
EQUS 424	Equine Exercise Physiology	3	SR	S	
ECON AND BUS	SINESS ELECTIVES				SELECT 9 CREDITS
ACTG 201	Principles of Financial Accounting	3	SO	FS	
ACTG 202	Principles of Managerial Accounting	3	SO	FSSu	
ACTG 220	Survey of Accounting	3	SO	On demand	
AGBE 321	Econ of Ag Marketing	3	JR	F	
AGBE 337	Ag Law	3	JR	FS	
AGBE 341	Farm and Ranch Management	3	JR	S	
AGBE 353	Coop Bus Principles & Practices	3	JR	F	
AGBE 421	Advanced Ag Marketing	3	SR	S	
BGEN 204	Business Fundamentals	3	SO	FS	
BGEN 242 D	Intro to International Business	3	SO	FSu	
BGEN 361	Princ of Business Law	3	JR	FSSu	
BMGT 335	Management & Organization	3	JR	FSSu	
BMKT 225	Marketing	3	SO	FS	
BMKT 325	Principles of Marketing	3	JR	FSSu	

AND INDUSTRY ELECTIVES					SELECT 9 CREDITS
Field Crop Production	3	JR	S		
Forages	3	so	F		
Calving Management	2	so	S		
Lvstk Mgmt-Sheep	1	so	S		
Lvstk Mgmt-Beef	1	so	S		
Sheep Management	3	SR	S		
Beef Cattle Management	4	SR	F		
Prof Development in Beef Production Syst	2	SR	F		
Prof Development in Beef Feedlot Syst	2	SR	S		
Host-Associated Biomes	3	SR	F		
Soils	3	so	F		
Horse Management	4	SR	S		
Grazing Ecology & Management	3	JR	S		
Habitat Inventory and Analysis	3	SR	F		
Riparian Ecology & Management	3	JR	S		
FREE ELECTIVES CREDITS: To meet minimum 120 cr.					
	Field Crop Production  Forages  Calving Management  Lvstk Mgmt-Sheep  Lvstk Mgmt-Beef  Sheep Management  Beef Cattle Management  Prof Development in Beef Production Syst  Prof Development in Beef Feedlot Syst  Host-Associated Biomes  Soils  Horse Management  Grazing Ecology & Management  Habitat Inventory and Analysis  Riparian Ecology & Management  Analysis  Riparian Ecology & Management	Field Crop Production  Forages  3  Calving Management  2  Lvstk Mgmt-Sheep  1  Lvstk Mgmt-Beef  1  Sheep Management  3  Beef Cattle Management  4  Prof Development in Beef Production Syst  2  Prof Development in Beef Feedlot Syst  2  Host-Associated Biomes  3  Soils  3  Horse Management  4  Grazing Ecology & Management  3  Riparian Ecology & Management  3	Field Crop Production  Forages  SO Calving Management  SO Lvstk Mgmt-Sheep  Lvstk Mgmt-Sheep  Lvstk Mgmt-Beef  SO Sheep Management  SR Beef Cattle Management  4 SR Prof Development in Beef Production Syst  Prof Development in Beef Feedlot Syst  SR Host-Associated Biomes  Soils  Soils  Grazing Ecology & Management  4 SR Riparian Ecology & Management  3 JR Riparian Ecology & Management  3 JR	Field Crop Production 3 JR S Forages 3 SO F Calving Management 2 SO S Lvstk Mgmt-Sheep 1 SO S Lvstk Mgmt-Beef 1 SO S Sheep Management 3 SR S Beef Cattle Management 4 SR F Prof Development in Beef Production Syst 2 SR F Prof Development in Beef Feedlot Syst 2 SR S Host-Associated Biomes 3 SR S Host-Associated Biomes 3 SR F Soils 3 SO F Horse Management 4 SR S Grazing Ecology & Management 3 JR S Habitat Inventory and Analysis 3 SR F Riparian Ecology & Management 3 JR S	Field Crop Production 3 JR S Forages 3 SO F  Calving Management 2 SO S  Lvstk Mgmt-Sheep 1 SO S  Lvstk Mgmt-Beef 1 SO S  Sheep Management 3 SR S  Beef Cattle Management 4 SR F  Prof Development in Beef Production Syst 2 SR F  Prof Development in Beef Feedlot Syst 2 SR S  Host-Associated Biomes 3 SR S  Soils 3 SO F  Horse Management 4 SR S  Grazing Ecology & Management 3 JR S  Riparian Ecology & Management 3 JR S  Riparian Ecology & Management 3 JR S

## **UNIVERSITY CORE 2.0 REQUIREMEMTS**

## **RUBRIC/NUMBER**

Seminar (US)	Fulfilled by degree required AGED 140US or COMX 111US
Writing (W)	Fulfilled by degree required WRIT 101W
Quantitative Reasoning (Q)	
Diversity (D)	
Contemporary Issues in Science (CS)	Fulfilled by degree required BIOB 160, CHMY 121/122IN, NRSM 240
Arts (IA or RA)	
Humanities (IH or RH)	
Natural Sciences (IN or RN)	Fulfilled by degree required CHMY 121/122IN
Inquiry Social Science (IS or RS)	Fulfilled by degree required ECNS 101IS
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: NRSM 240; BIOB 110, 160, 170, 256, 258, 260; BIOH 201, 211; BIOM 210, 250; BIOO 220; CHMY 121, 123, 141, 143, 151, 153, 211; GEO 101, 103, 205, 211; GPHY 111; ENSC 245; PHSX 205, 207, 220, 222, 224, 240, 242.

Minimum 120 Total Credits:	
Minimum 42 Upper Division Credits:	