Ranching Systems Degree - Curriculum

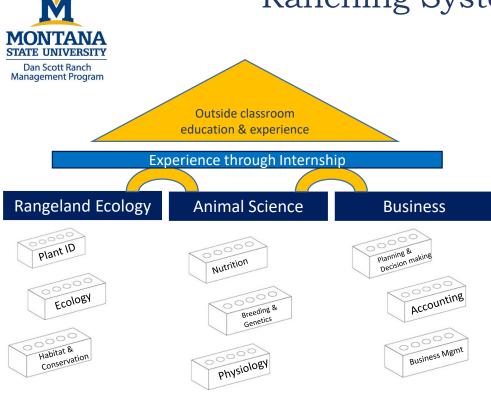


Figure Above: Individual classes are the bricks that lay a solid foundation in each of 3 disciplines; rangeland ecology, animal science and business. The work-learn internship ties the disciplines together through experience, and additional education and experience outside the classroom continue to build on the foundation of the Ranching Systems degree.

Ranching Systems Courses (under development)

RS 306 - Livestock Management and Human Resources in Ranching Systems

RS 316 - Forage Management and Natural Resource Stewardship in Ranching Systems

RS 406 – Finance and Planning in Ranching Systems

RS 416 - Systems Thinking for Ranches

Internships

2 terms on the same ranch

- Summer 1 livestock goals and forage management
- Summer 2 Finances and ranch planning
 - Ranch management project
- Internship Structure
 - Paid positions employee of the host ranch
 - Serve May August
 - Specific learning objectives
 - Writing assignments and reports

Internship Learning Objectives:

- Describe the host operation, including its structure, history, philosophies, and commodity production. (Knowledge)
- Demonstrate work ethic and recognize how daily tasks such as spraying weeds, fixing fence, and animal husbandry are relevant to the operation and industry. (Knowledge, Application)
- Recognize, extend, and apply knowledge of animal, rangeland, and economic learning acquired during course work to ranch operations and describe how internship enhanced understanding and use of discipline theories. (Knowledge, Comprehension and Understanding, Application)
- Describe how the internship has provided understanding and skills not covered in course work and explain why these skill are important for ranch managers. (Comprehension, Application)
- 5. Identify a specific opportunity for improvement in the ranching operation and write a summary of how implementing changes in that area could enhance the operation's efficiency, natural resource stewardship or economic returns. Create a final synthesis describing whether the plan will be implemented and summarizing the reasons for the decision. (Analysis, Synthesis, Evaluation)



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http://http://animalrange.montana.edu/danscottmanagementprogram.html

Course	Title
	Freshman Year
AGED 140US Or	Leadership Dev for Ag & Individual
COMX 111US	Employee <i>or</i>
	Public Communication
BIOB 170	Princ of Biological Diversity
CHMY 121IN	Intro General Chemistry
NRSM 101	Natural Resource Conservation
NRSM 102	Montana Range Plants Lab
ANSC 100	Intro to Animal Science
BIOB 160	Princ of Living Systems
ECNS 101IS	Econ Way of Thinking
WRIT 101W	College Writing I
	Sophomore Year
ACTG 201	Principles of Financial Acct
ANSC 202	Livestock Feeding
NRSM 240	Natural Resource Ecology
CHMY 123	Intro to Organic & Biochem
ENSC 245IN	Soils
STAT 216Q	Intro to Statistics
ACTG 202	Principles of Managerial Acct
ANSC 234	Livestock Mgmt Beef 1
ANSC 265	Anatomy & Physiology of Dom Animals
ANSC 266	Anatomy & Physiology of Dom Animals
	Laboratory
BGEN 242D	Intro to International Business
BMIS 211	Speadsheet and Database Skills

	Program Admission Required *	
Junior Year		
RS 398	Livestock and Forage Mgmt in RS – Internship	
BMGT 335	Management & Organization	
ANSC 320	Animal Nutrition	
ANSC 321	Physiology of Reproduction	
RS 306	Livestock Mgmt in Ranching Syste,s	
IA or IH core	University required core course	
ANSC 322	Princ Animal Breeding & Genetics	
ANSC 337	Disease of Domestic Lvstk	
AGBE 210	Economics of Ag Business	
BIOO 230	Identification of Seed Plants	
RS 316	Forage Mgmt in RS	
	Senior Year	
RS 498	Finances & Decision Making in RS – Internship	
IA or IH core	University required core course	
ANSC 434R	Beef Cattle Mgmt	
AGSC 342	Forages	
RS 406	Finances & Decision Making in RS	
BMGT 406	Negotiation/Dispute Resolution	
NRSM 353	Grazing Ecology and Mgmt	
WILD 420 <i>Or</i>	Range & Wildlife Policy and Planning or	
NRSM 430	NRSM 430 Natural Resource Law	
WILD 426	Wildlife Habitat Mgmt	
NRSM 455 <i>Or</i>	Riparian Ecology & Mgmt or	
ENSC 272CS	Water Resources	
RS 416	Systems Thinking for Ranch Managers	

Credits by Discipline		
Econ / Bus	27	
Animal Science	28	
Rangeland Eco	29	
Math / Biol / Chem	19	
Ranching Systems	7	
Electives / Core	9	
Total	119	

Questions?

^{*} The Ranching Systems Degree at Montana State University is a limited enrollment program with the goal of providing the high-quality, individually tailored educational opportunities to prepare students to be tomorrow's ranch managers. Sophomore students who have a minimum of 40 credits (including currently enrolled classes) of required courses for the Ranching Systems Degree plan and have a current GPA of 3.0 or better are eligible to apply.