

SUSTAINABLE LIVESTOCK RANCHING OPTION

Option Code: 850

This option is offered within the following major(s):

- Rangeland Sciences - College of Agricultural Sciences (<http://catalog.oregonstate.edu/college-departments/agricultural-sciences/animal-rangeland-sciences/rangeland-sciences-bs-hbs/>)

Also available via Ecampus.

This option will equip students with the knowledge and skills to manage ranching operations that balance delivery of ecosystem goods and services as well as meet ranch enterprise production goals.

Student Learning Outcomes

- Evaluate and address ecological disturbance impacts of ranch management.
- Create and trouble-shoot sustainable grazing management plans.
- Design a ranch management plan that balances the delivery of ecosystem goods and services with production goals.

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Code	Title	Credits
Required Courses		
ANS 313	APPLIED ANIMAL NUTRITION: FEEDS AND RATION FORMULATION	4
ANS 446	GRAZING LIVESTOCK PRODUCTION	4
FW 462	ECOSYSTEM SERVICES	3
RNG 442	RANGELAND-ANIMAL RELATIONS	4
Livestock Management		
9		
ANS 121	*INTRODUCTION TO ANIMAL SCIENCES	
ANS 215	BEEF/DAIRY INDUSTRIES	
ANS 216	SMALL RUMINANT/SWINE INDUSTRIES	
ANS 316	REPRODUCTION IN DOMESTIC ANIMALS	
ANS 317	REPRODUCTION IN DOMESTIC ANIMALS LABORATORY	
ANS 378	ANIMAL GENETICS	
ANS 380	PRINCIPLES OF ANIMAL ANATOMY AND PHYSIOLOGY	
ANS 436	SHEEP PRODUCTION SYSTEMS	
ANS 445	BEEF PRODUCTION SYSTEMS	
RNG 457	HABITAT ANALYSIS 1: HABITAT USE AND MOVEMENT (WILDLIFE HABITAT ANALYSIS 1)	
RNG 499	SPECIAL TOPICS	
General Agriculture		
6		
CROP 310	FORAGE PRODUCTION	
AG 312	ENGINE THEORY AND OPERATION	
AG 391	FARM IMPLEMENTS	
AG 412	AG SAFETY AND HEALTH	
Business Management		
6		
AEC 211	AGRICULTURAL AND FOOD MANAGEMENT	
AEC 251	*INTRODUCTION TO AGRICULTURAL AND FOOD ECONOMICS	
AEC 388	AGRICULTURAL LAW	
AEC 442	AGRICULTURAL BUSINESS MANAGEMENT	
AEC 444	COMMODITY FUTURES AND OPTIONS MARKETS	
BA 314	SUSTAINABLE BUSINESS OPERATIONS	
Total Credits		36

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Baccalaureate Core Course (BCC)