# 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.

## Option Code: 850

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANS 313</td>
<td>APPLIED ANIMAL NUTRITION: FEEDS AND RATION FORMULATION</td>
<td>4</td>
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<tr>
<td>ANS 446</td>
<td>GRAZING LIVESTOCK PRODUCTION</td>
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<td>FW 462</td>
<td>ECOSYSTEM SERVICES</td>
<td>3</td>
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<tr>
<td>RNG 442</td>
<td>RANGELAND-ANIMAL RELATIONS</td>
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### Livestock Management

- 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

- CROP 310 FORAGE PRODUCTION
- AG 312 ENGINE THEORY AND OPERATION
- AG 391 FARM IMPLEMENTS
- AG 412 AG SAFETY AND HEALTH

### Business Management

- 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

* Baccalaureate Core Course (BCC)