RANGELAND SCIENCES
UNDERGRADUATE MAJOR
(BS, HBS)

Also available at Eastern Oregon University and via Ecampus.

Departmental requirements may be utilized to satisfy baccalaureate core and non-departmental minor requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Baccalaureate Core</td>
<td>1</td>
<td>Select 51 credits</td>
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</tbody>
</table>

**Skills Courses**

**Fitness**

- HHS 231 *LIFETIME FITNESS FOR HEALTH 2

Select one of the following:

- HHS 241 *LIFETIME FITNESS

Approved Physical Activity Course (PAC)

**Mathematics**

Met with Rangeland Sciences General Sciences, Math and Statistics.

- Select one of the following:
  - 3
  - COMM 111 *PUBLIC SPEAKING
  - COMM 114 *ARGUMENT AND CRITICAL DISCOURSE
  - COMM 218 *INTERPERSONAL COMMUNICATION

**Writing I**

- WR 121 *ENGLISH COMPOSITION (Must be taken in first 45 credits) 3

**Writing II**

- WR 327 *TECHNICAL WRITING 3

**Perspective Courses**

2,3

- Biological Science (Lecture/Lab)
- Met with Rangeland Sciences General Sciences, Math and Statistics.

**Cultural Diversity (CD)**

- Select 3 credits 3

**Literature and the Arts (LA)**

- Select 3 credits 3

**Physical Science (Lecture/Lab or Lab)**

- Met with Rangeland Sciences General Sciences, Math and Statistics.

- Social Processes and Institutions (SPI)
- Met with Rangeland Sciences General Sciences, Math and Statistics.

**Western Culture (WC)**

- Select 3 credits 3

- Difference, Power, and Discrimination Courses (DPD)
- Select 3 credits 3

**Synthesis Courses**

- Select 6 credits 4

- Contemporary Global Issues (CGI)
- Select 3 credits 3

- Science, Technology, and Society (STS)
- Select 3 credits 3

- Writing Intensive Course (WIC)

Select one of the following:

- AG 421 *WRITING IN AGRICULTURE 3
- ANS 420 *ETHICAL ISSUES IN ANIMAL AGRICULTURE
- ENSC 479 **ENVIRONMENTAL CASE STUDIES
- FW 435 *WILDLIFE IN AGRICULTURAL ECOSYSTEMS
- GEOG 323 *CLIMATOLOGY

**Rangeland Sciences**

- RNG 341 RANGELAND ECOLOGY AND MANAGEMENT 3
- RNG 351 RANGE ECOLOGY I-GRASSLANDS 3
- RNG 352 RANGE ECOLOGY II-SHRUBLANDS 3
- RNG 353 WILDLAND PLANT IDENTIFICATION 4
- RNG 355 DESERT WATERSHED MANAGEMENT 4
- RNG 421 WILDLAND RESTORATION AND ECOLOGY 4
- RNG 441 RANGELAND ANALYSIS 4
- RNG 442 RANGELAND-ANIMAL RELATIONS 4
- RNG 490 RANGELAND MANAGEMENT PLANNING 4

**Plants, Soil and Animals**

- ANS 313 APPLIED ANIMAL NUTRITION: FEEDS AND RATION FORMULATION 4
- ANS 312 FEEDSTUFFS AND RATION FORMULATION

Select one of the following:

- 3-4
- ANS 436 SHEEP PRODUCTION SYSTEMS
- ANS 446 GRAZING LIVESTOCK PRODUCTION (Ecampus only)
- ANS 445 BEEF PRODUCTION SYSTEMS
- BI 370 ECOLOGY 3
- or BOT 341 PLANT ECOLOGY
- BOT 321 PLANT SYSTEMATICS 4
- BOT 331 PLANT PHYSIOLOGY 4
- or BOT 488 ENVIRONMENTAL PHYSIOLOGY OF PLANTS
- BOT 414 AGROSTOLOGY 4
- CROP 310 FORAGE PRODUCTION 4
- FW 251 PRINCIPLES OF FISH AND WILDLIFE CONSERVATION 3

Select one of the following:

- 4
- SOIL 205 SOIL SCIENCE 4
- SOIL 206 and *SOIL SCIENCE LABORATORY FOR SOIL 205 PRINCIPLES OF SOIL SCIENCE
- SOIL 366 ECOSYSTEMS OF WILDLAND SOILS (Ecampus only)
- or SOIL 466 SOIL MORPHOLOGY AND CLASSIFICATION

**Economics and Natural Resources**

- FOR 111 INTRODUCTION TO FORESTRY 3
- ECON 201 *INTRODUCTION TO MICROECONOMICS 4
- or AEC 250 *INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY
- AEC 351 *NATURAL RESOURCE ECONOMICS AND POLICY 3
- or AEC 352 *ENVIRONMENTAL ECONOMICS AND POLICY

**General Science, Math and Statistics**

Select one of the following groups:

- 12

- Group A: Principles of Biology
- BI 211 *PRINCIPLES OF BIOLOGY
- BI 212 *PRINCIPLES OF BIOLOGY
### Rangeland Sciences Undergraduate Major (BS, HBS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BI 213</td>
<td>*PRINCIPLES OF BIOLOGY</td>
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<tr>
<td></td>
<td><strong>Group B: Introductory Biology</strong></td>
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<tr>
<td>BI 204</td>
<td>*INTRODUCTORY BIOLOGY I</td>
<td></td>
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<tr>
<td>BI 205</td>
<td>*INTRODUCTORY BIOLOGY II</td>
<td></td>
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<tr>
<td>BI 206</td>
<td>*INTRODUCTORY BIOLOGY III</td>
<td></td>
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<tr>
<td>CH 121</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CH 122</td>
<td>*GENERAL CHEMISTRY</td>
<td>5</td>
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<tr>
<td>CH 130</td>
<td>GENERAL CHEMISTRY OF LIVING SYSTEMS</td>
<td>4</td>
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<tr>
<td>GEOG 102</td>
<td>*PHYSICAL GEOGRAPHY</td>
<td>4</td>
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<tr>
<td>MTH 111</td>
<td>*COLLEGE ALGEBRA</td>
<td>4</td>
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<tr>
<td>MTH 241</td>
<td>*CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCE</td>
<td>4</td>
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**Free Electives**

Select a maximum of 12 credits of free electives  
12

**Total Hours**: 180-182

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1. Certain classes may be used to satisfy both the baccalaureate core and the rangeland ecology and management core.
2. No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core.
3. Please reference the baccalaureate core course catalog for a list of approved courses: [http://catalog.oregonstate.edu/](http://catalog.oregonstate.edu/)
4. The two courses used to fulfill the Synthesis requirement may not be in the same department.

* Baccalaureate Core Course
^ Writing Intensive Course (WIC)

**Major Code**: 292