

# 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.

Code	Title	Hours
<b>Baccalaureate Core</b> <sup>1</sup>		
Select 51 credits		
<b>Skills Courses</b>		
Fitness		
HHS 231	*LIFETIME FITNESS FOR HEALTH	2
Select one of the following: 1		
HHS 241	*LIFETIME FITNESS	
Approved Physical Activity Course (PAC)		
Mathematics		
Met with Rangeland Sciences General Sciences, Math and Statistics. 4		
Speech		
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
<b>Perspective Courses</b> <sup>2,3</sup>		
Biological Science (Lecture/Lab)		
Met with Rangeland Sciences General Sciences, Math and Statistics.		
Cultural Diversity (CD)		
Select 3 credits <sup>3</sup> 3		
Literature and the Arts (LA)		
Select 3 credits <sup>3</sup> 3		
Physical Science (Lecture/Lab or Lab)		
Met with Rangeland Sciences General Sciences, Math and Statistics. 1		
Social Processes and Institutions (SPI)		
Met with Rangeland Sciences General Sciences, Math and Statistics. 3		
Western Culture (WC)		
Select 3 credits <sup>3</sup> 3		
Difference, Power, and Discrimination Courses (DPD)		
Select 3 credits <sup>3</sup> 3		
Synthesis Courses		
Select 6 credits <sup>4</sup> 6		
Contemporary Global Issues (CGI)		
Select 3 credits <sup>3</sup> 3		
Science, Technology, and Society (STS)		
Select 3 credits <sup>3</sup> 3		
Writing Intensive Course (WIC)		

Select one of the following: 3	
AG 421	*WRITING IN AGRICULTURE
ANS 420	*ETHICAL ISSUES IN ANIMAL AGRICULTURE
ENSC 479	*ENVIRONMENTAL CASE STUDIES
FW 435	*WILDLIFE IN AGRICULTURAL ECOSYSTEMS
GEOG 323	*CLIMATOLOGY
<b>Rangeland Sciences</b>	
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
<b>Plants, Soil and Animals</b>	
ANS 313	APPLIED ANIMAL NUTRITION: FEEDS AND RATION FORMULATION 4
or 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	
or CSS 305 PRINCIPLES OF SOIL SCIENCE	
SOIL 366	ECOSYSTEMS OF WILDLAND SOILS (Ecampus only) 3-4
or SOIL 466 SOIL MORPHOLOGY AND CLASSIFICATION	
<b>Economics and Natural Resources</b>	
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	
<b>General Science, Math and Statistics</b>	
Select one of the following groups: 12	
Group A: Principles of Biology	
BI 211	*PRINCIPLES OF BIOLOGY
BI 212	*PRINCIPLES OF BIOLOGY

BI 213	*PRINCIPLES OF BIOLOGY	
Group B: Introductory Biology		
BI 204	*INTRODUCTORY BIOLOGY I	
BI 205	*INTRODUCTORY BIOLOGY II	
BI 206	*INTRODUCTORY BIOLOGY III	
CH 121	GENERAL CHEMISTRY	5
CH 122	*GENERAL CHEMISTRY	5
CH 130	GENERAL CHEMISTRY OF LIVING SYSTEMS	4
GEOG 102	*PHYSICAL GEOGRAPHY	4
MTH 111	*COLLEGE ALGEBRA	4
MTH 241	*CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCE	4
<b>Free Electives</b>		
Select a maximum of 12 credits of free electives		12
Total Hours		180-182

- <sup>1</sup> Certain classes may be used to satisfy both the baccalaureate core and the rangeland ecology and management core.
- <sup>2</sup> 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.
- <sup>3</sup> Please reference the baccalaureate core course catalog for a list of approved courses: <http://catalog.oregonstate.edu/>
- <sup>4</sup> 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**