

# A.S. Natural Resources & Rangeland Management Emphasis

This two-year (65 credit) emphasis utilizes applied plant and animal sciences to manage the northwestern rangelands by balancing competing demands on the environment. Students will consider the soil, plants, and animals as a whole in their resource management plans. They will contemplate domestic grazing, wildlife impact and other land uses within the framework of total resource management. This degree is meant to transfer into a Bachelor of Science program to prepare students for employment with state and federal land management agencies. Some of these agencies include the USDA, US Forest Service, Natural Resource Conservation Service, Bureau of Land Management, US Dept. of the Interior, US Fish and Wildlife Service, state water management agencies, or parks and recreation agencies. Many positions are also available through private sector employment including mining, oil or forest product companies, consulting firms, water organizations and non-profit conservation and environmental organizations. Livestock producers also choose to take this field of study to improve the rate of return on their investment.

Upon completion of this program, graduates will be able to:

- Transfer as juniors to a Bachelor of Science program.
- Obtain a strong science background in biology, chemistry, biochemistry, ecology, and the specifics of animal and soil science.
- Calculate bioavailability, forage usage, stocking rates, and Animal Unit Equivalent.
- Communicate effectively both orally and in writing. Master basic computer and introductory GIS skills.

Program course requirements are presented in sequence. Part-time students and others who cannot follow this sequence should check [Course Descriptions](#) to determine pre-requisites and should consult their advisor regarding the order in which to take courses. Students should consult the catalog of the institution to which they expect to transfer and should select appropriate core requirement and elective courses in consultation with their advisor: [General Education Core Requirements Courses](#).

NOTE: 3 credits of either Humanities & Fine Arts or History & Social Sciences must meet the Cultural Diversity requirement.

AGSC 101 Intro to Ag & Environmental Resources	1 credit
ANSC 100 Intro To Animal Science	3 credits
NRSM 101 Natural Resource Conservation	3 credits
NRSM 102 Montana Range Plants	1 credit
WRIT 101 College Writing I	3 credits
BIOB 160/161 Principles of Living Systems & Lab	3 and 1 credits
<b>Total</b>	<b>15 credits</b>
<b>First Year Spring Semester</b>	
M 121 College Algebra	4 credits
COMX 111 Intro to Public Speaking	3 credits
BIOB 170/171 Principles Of Biological Diversity & Lab	3 and 1 credits
WRIT 121 Intro to Technical Writing (Preferred), or WRIT 201 College Writing II	3 credits
CAPP 131 Basic MS Office	3 credits
<b>Total</b>	<b>17 credits</b>

<b>Second Year Fall Semester</b>	
CHMY 121/122 Intro To General Chemistry & Lab	3 and 1 credits
NRSM 235 Range & Pasture Monitoring	1 credit
NRSM 240 Natural Resource Ecology	3 credits
ECNS 201 Principles Of Microeconomics	3 credits
ENSC 245 Soils	3 credits
Humanities & Fine Arts Core Requirement	3 credits
<b>Total</b>	<b>17 credits</b>
<b>Second Year Spring Semester</b>	
CHMY 123/124 Intro To Organic & Biochemistry & Lab	3 and 1 credits
GPHY 284 Intro To GIS Science	3 credits
STAT 216 Intro To Statistics	3 credits
Humanities & Fine Arts Core Requirement	3 credits
History & Social Sciences Core Requirement	3 credits
<b>Total</b>	<b>16 credits</b>
<b>Program Total</b>	<b>65 credits</b>