

A.S. Animal Science Emphasis - Pre-Veterinary, Biotechnology, Nutrition, or Genetics

This two-year (65 credit) emphasis provides students with a great depth of study in the biological and natural sciences. Students will also learn reproductive physiology, animal breeding, nutrition, and livestock management. This option is designed for highly motivated students who have a strong interest in graduate training beyond a Bachelor’s degree or professional studies such as veterinary medicine.

Upon completion of this program, graduates will demonstrate:

- Preparation to transfer into a variety of undergraduate majors in preparation for professional school or graduate study in animal-related programs
- A strong science background in biology, chemistry, ecology, and the specifics of animal science with mathematical basis for such understanding
- A working knowledge of animal production systems and their application to animal management
- An understanding of animal anatomy and physiology
- Effective communication, both orally and in writing

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.

First Year Fall Semester	
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
BIOB 160/161 Principles of Living Systems & Lab	3 and 1 credits
WRIT 101 College Writing I	3 credits
Total	15 credits
First Year Spring Semester	
BIOB 170/171 Principles of Biological Diversity & Lab	3 and 1 credits
ANSC 222 Livestock in Sustainable Systems	3 credits
WRIT 201 College Writing II, or WRIT 121 Intro to Technical Writing	3 credits
M 161 Survey of Calculus	4 credits
COMX 111 Intro to Public Speaking, or AGED 140 Leadership Development for Agriculture	3 credits
Total	17 credits
Second Year Fall Semester	
ANSC 265/266 Anatomy & Physiology of Domestic Animals & Lab	3 and 1 credits

CHMY 141/142 College Chemistry I & Lab	3 and 1 credits
NRSM 240 Natural Resource Ecology	3 credits
History & Social Sciences Core Requirement	3 credits
Humanities & Fine Arts Core Requirement	3 credits
Total	17 credits
Second Year Spring Semester	
ANSC 202 Livestock Feeding and Nutrition	3 credits
CHMY 143/144 College Chemistry II & Lab	3 and 1 credits
STAT 216 Introduction to Statistics	3 credits
Humanities & Fine Arts Core Requirement	3 credits
History & Social Sciences Core Requirement	3 credits
Total	16 credits
Program Total	65 credits