



Office of
Transfer Relations

Catalog: 2026-2027 University of Wyoming Catalog
Program: Animal and Veterinary Science, B. S. (Pre-Veterinary
Medicine Concentration)

Wyoming Transfer Alignment Guide (WyoTAG)

Animal and Veterinary Science, B. S. (Pre-Veterinary Medicine Concentration)

This concentration is designed to prepare students for application to Colleges of Veterinary Medicine, graduate school, or other pre-professional opportunities. Emphasis is placed on biology/pathobiology, chemistry/physical, and biomedical sciences.

Degree Requirements

This degree requires 120 credits, 42 of which are upper-division credits.

University Studies Program

This degree requires that The University Studies Program 2015 requirements are met before graduation. Some of the courses required for this major fulfill USP requirements, but not all. Students should check their degree evaluations and consult with their assigned academic advisor to discuss their specific course plan.

Course Name	Credits	UW Course in Major	AA/AS/AB/ADN satisfies this USP
C 1-Communication 1 (COM1)	3		X
C 2-Communication 2 (COM2)	3		X
C 3-Communication 3 (COM3)	3	(Must be completed at UW)	
Q-Quantitative Reasoning (Q)	3		X
PN-Physical and Natural World (1) (PN)	3		X
PN-Physical and Natural World (2) (PN)	3		X
H-Human Culture (1) (H)	3		X
H-Human Culture (2) (H)	3		X
V-US & WY Constitution (V)	3		X
FYS or USP Elective-Any 3-credit hour of FYS or 3-credit hours of USP electives	3		X

Note: FYS courses have been paused. 3 hours from any additional USP designated courses is still required.

Animal and Veterinary Science Core

All students completing a degree in Animal & Veterinary Science will take the following courses as a core. These courses are designed to introduce shared animal science and pre-veterinary medicine disciplines and establish a strong baseline knowledge for students interested in animal fields.

Animal and Veterinary Science Required Courses

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
ANSC 1010 - Introduction to Animal Science	4	X	X	X	X	X	X	

Course Name	Credits	
ANSC 3010 - Domestic Animal Systems Physiology *	4	UW Course
ANSC 3100 - Principles of Animal Nutrition *	3	UW Course
ANSC 4120 - Principles of Mammalian Reproduction *	4	UW Course
ANSC 4630 - Topics and Issues in Animal Science C3 OR PATB 4130 - Mammalian Pathobiology *C3	3	UW Course
PATB 4110 - Diseases of Food Animals *	3	UW Course

Supporting Math/Science 15 Required Credits:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
LIFE 1010 - General Biology * PN	4	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
LIFE 2022 - Animal Biology *	4	X	X		X	X		X
MATH 1400 - College Algebra Q	3	X	X	X	X	X	X	X
STAT 2050 - Fundamentals of Statistics Q	4	X	X	X	X	X	X	X

Pre-Veterinary Medicine Concentration

Students declaring the Pre-Veterinary Medicine concentration are required to take the following courses:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
MICR 2021 - General Microbiology OR MOLB 2021 - General Microbiology	4	X	X	X		X	X	X

Course Name	Credits	
MOLB 3610 - Principles of Biochemistry	4	UW Course
PATB 2220 - Pathogenic Microbiology	3	UW Course

Pathobiology

Course Name	Credits	
PATB 3400 - Host Defenses Against Infection	3	UW Course
PATB 4300 - Microscopic Anatomy	3	UW Course
PATB 4500 - Veterinary Parasitology	4	UW Course
PATB 4710 - Medical Virology	3	UW Course

Animal Science

Minimum of 3 Credits from the following:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
ANSC 3150 - Equine Nutrition and Physiology	3		X					

Course Name	Credits	
ANSC 4050 - Animal Growth and Development	3	UW Course
ANSC 4132 - Equine Reproduction	3	UW Course
ANSC 4260 - Mammalian Endocrinology	3	UW Course
ANSC 4540 - Principles of Animal Breeding*	3	UW Course
FDSC 3060 - Principles of Meat Science and Muscle Biology*	3	UW Course

* = grade of C or better required for degree completion

Supporting Math/Science/Chem:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
CHEM 1020 - General Chemistry I	4	X	X	X	X	X	X	X
CHEM 1030 - General Chemistry II	4	X	X	X	X	X	X	X
CHEM 2420 - Organic Chemistry I	4	X	X	X	X	X	X	X
CHEM 2440 - Organic Chemistry II	4	X	X	X	X	X	X	X
MATH 1405 - Trigonometry	3	X	X	X	X	X	X	X
PHYS 1110 - General Physics I	4	X	X	X	X	X	X	X
PHYS 1120 - General Physics II	4	X	X	X	X	X	X	X

Course Name	Credits	
LIFE 3050 - Genetics	4	UW Course
LIFE 3600 - Cell Biology OR MOLB 4670 - Advanced Molecular Cell Biology	4 3	UW Course

Additional Information

Agriculture, in its broadest definition, is the nation's largest industry. Livestock production is Wyoming's largest agricultural enterprise. Animal agriculture and its associated industries offer many opportunities for the interested student. Whether a student is interested in production livestock, allied fields such as meat science or animal health, or wants to apply to a college of veterinary medicine or graduate school, the degree concentrations offered will form the basis for an engaging career in animal agriculture/biology. The various concentrations provide maximum flexibility to meet the changing needs of students and their employers. For students interested in pursuing advanced research, M.S. and Ph.D. degrees are offered.

A grade of C or better must be earned in the following courses when the courses are required in the individual option for completion of the degree: ANSC 3010, ANSC 3100, ANSC 4120, ANSC 4540, ANSC 4630; FDSC 3060, PATB 4110, PATB 4111, LIFE 1010, LIFE 2022.

Students are encouraged to participate in activities related to their degree concentration. The university has competitive livestock, wool, and meat judging teams that travel to and participate in at least one major exposition a year. Laboratories and field trips, as practical teaching aids in many classes, are scheduled throughout the year. Internships are available to gain practical experience. Student organizations such as the Food Science Club, Pre-Vet Club, Wyoming Collegiate Cattlemens Association, Microbiology Club, Range Club, and the Ranch Horse Team provide additional educational and recreational opportunities.

Notes:

Note 1: All WYCCs offer BIOL 1010 which is equivalent to LIFE 1010.

COURSE SUBSTITUTIONS: WyoTAGs reflect published equivalencies. UW academic departments occasionally arrange for course substitutions when indirect equivalencies exist. Please contact your UW Academic Advisor for details.

EFFECTIVE DATE: This document is in effect as of the 2026-2027 catalog year; it reflects the published UW curriculum as of that date. Any changes to the UW curriculum or the WYCC course equivalents will require this document to be updated. To request an updated document, faculty should contact transfer@uwyo.edu via email.