

Animal & Veterinary Science, BS

Preveterinary Medicine Option



University of Wyoming, 2016-17

The University of Wyoming does not have a college of veterinary medicine, so this degree option is designed to prepare students for application to colleges of veterinary medicine. Faculty advisers ensure that students meet the variable preveterinary requirements for application to colleges of veterinary medicine across the country.

Freshman Fall Semester

	Hrs	Min	Grade	Notes
USP First-Year Seminar	3		FY	
CHEM 1020 General Chemistry I *	4		PN	
LIFE 1010 General Biology **	4	C	PN	
MATH 1400 College Algebra ***	3		Q	
Credit hours subtotal:	14			

Freshman Spring Semester

	Hrs	Min	Grade	Notes
USP US & Wyoming Constitution	3		V	
CHEM 1030 General Chemistry II	4			
ENGL 1010 College Composition and Rhetoric	3		C1	
LIFE 2022 Animal Biology	4	C		
MATH 1405 Trigonometry	3			
Credit hours subtotal:	17			

Sophomore Fall Semester

	Hrs	Min	Grade	Notes
USP Human Culture	3		H	
CHEM 2420 Organic Chemistry I	4			
PHYS 1110 General Physics I	4			
STAT 2050 Fundamentals of Statistics	4			Can substitute STAT 2070 (Intro Statistics for the Social Sciences).
Credit hours subtotal:	15			

Sophomore Spring Semester

	Hrs	Min	Grade	Notes
USP Communication 2	3		C2	
USP Human Culture	3		H	
CHEM 2440 Organic Chemistry II	4			
PHYS 1120 General Physics II	4			
Electives	3			
Credit hours subtotal:	17			

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

Animal & Veterinary Sciences - Preveterinary Medicine Option Program Notes:

* Requires MATH ACT \geq 23, MATH SAT \geq 600, Math Placement Exam \geq 3, or concurrent enrollment in MATH 1400 or 1405 or 1450. (University Standard)

** Requires MATH ACT \geq 21, MATH SAT \geq 600, Math Placement Exam \geq 2, or \geq C in MATH 0921. (University Standard)

*** Requires MATH ACT \geq 23, MATH SAT \geq 600, Math Placement Exam \geq 3, or \geq C grade in MATH 0925.

Animal & Veterinary Service, BS

Preveterinary Medicine Option



University of Wyoming, 2016-17

Junior Fall Semester

	Hrs	Min Grade	Notes
ANSC 4120 Principles of Mammalian Reproduction	3	C	
MICR 2021 General Microbiology	4		
MOLB 3610 Principles of Biochemistry	4		
Electives	6		
Credit hours subtotal:	<u>17</u>		

Junior Spring Semester

	Hrs	Min Grade	Notes
ANSC 3010 Comp Anat and Phys of Domestic Animals	4	C	
ANSC 3100 Principles of Animal Nutrition	3	C	
MICR 2220 Pathogenic Microbiology	4		Cross listed with PATB 2220.
PATB 4400 Immunology	4		
Credit hours subtotal:	<u>15</u>		

Senior Fall Semester

	Hrs	Min Grade	Notes
LIFE 3050 Genetics	4		
PATB 4110 Diseases of Food Animals	3	C	
PATB 4710 Medical Virology	3		
PATB 4500 Veterinary Parasitology	4		
Elective	3		
Credit hours subtotal:	<u>17</u>		

Senior Spring Semester

	Hrs	Min Grade	Notes
ANSC 4630 Topics and Issues in Animal Science	3	C3	
Livestock Production Elective ****	3		
Upper Division Electives	10		
Credit hours subtotal:	<u>16</u>		

TOTAL CREDIT HOURS: 128

Animal & Veterinary Sciences - Preveterinary Medicine Option Program Notes con't:

**** **Livestock Production Elective.** One course should be selected from the following:

- ANSC 3150 Equine Nutrition and Physiology (3 hrs)
- ANSC 4220 Advanced Beef Production & Management (3 hrs)
- ANSC 4230 Advanced Sheep Production Management (3 hrs)

• Recommended Electives:

- ANSC 1010 Introduction to Animal Science (3 hrs)
- ANSC 4050 Animal Growth & Development (3 hrs)
- ANSC 4111 Equine Health and Disease (3 hrs) (Cross listed with PATB 4111)
- ANSC 4132 Equine Reproduction (2 hrs)
- ANSC 4150 Physiology of Ruminant Digestion (3 hrs)
- ANSC 4260 Mammalian Endocrinology (3 hrs)
- ANSC 4540 Principles of Animal Breeding (3 hrs)
- FDSC 3060 Principles of Meat Science (3 hrs)
- PATB 4001 Epidemiology (Diseases in Population) (3 hrs)
- PATB 4130 Mammalian Pathobiology (3 hrs)
- PATB 4170 Diseases of Wildlife (3 hrs)
- PATB 4360 Medical Entomology & Parasitology (4 hrs)