

Animal & Veterinary Science, BS

Preveterinary Medicine Option



University of Wyoming, 2017-18

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 - Preveternary 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, 2017-18

Junior Fall Semester			Hrs	Min Grade	Notes
ANSC	4120	Principles of Mammalian Reproduction	3	C	
MICR	2021	General Microbiology	4		
PATB	4400	Immunology	4		
		Electives	6		
Credit hours subtotal:			17		

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	
MOLB	3610	Principles of Biochemistry	4		
MICR	2220	Pathogenic Microbiology	3		Cross listed with PATB 2220.
Credit hours subtotal:			14		

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	4		
Credit hours subtotal:			18		

Senior Spring Semester			Hrs	Min Grade	Notes
ANSC	4630	Topics and Issues in Animal Science	3		C3; OR PATB 4130, Mammalian Pathobiology
		Livestock Production Elective ****	3		
		Upper Division Electives	4		
		Elective	6		
Credit hours subtotal:			16		

TOTAL CREDIT HOURS: 128

Animal & Veterinary Sciences - Preveternary 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 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)