

University of Wyoming Sample Four-Year Degree Plan
Catalog Year: 2019 - 2020

Animal & Veterinary Science, BS Pre-Veterinary Medicine Option



This sample degree plan is a guide, to be used for planning in consultation with your academic advisor. Actual course sequence may vary by student. A ▲ symbol identifies courses that must be taken and passed during the suggested semester in order for a student to stay on track toward completing the degree program within four years.

Course Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
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Freshman Fall Semester

			USP First-Year Seminar	3	C	FY
▲	CHEM	1020	General Chemistry I ¹	4		PN
▲	MATH	1400	College Algebra ²	3		Q
▲	LIFE	1010	General Biology ¹	4	C	PN
Credit hours subtotal:				14		

Freshman Spring Semester

			USP US & Wyoming Constitution	3	C	V
	ENGL	1010	College Composition and Rhetoric	3	C	C1
▲	LIFE	2022	Animal Biology	4	C	Prereq: LIFE 1010; spring only
▲	CHEM	1030	General Chemistry II	4		Prereq: CHEM 1020
▲	MATH	1405	Trigonometry	3		Prereq: MATH 1400 (C or better)
Credit hours subtotal:				17		

Sophomore Fall Semester

			USP Human Culture	3	C	H
▲	CHEM	2420	Organic Chemistry I	4		Prereq: CHEM 1030
▲	MICR	2021	General Microbiology	4		Prereq: LIFE 1010, CHEM 1000 or equivalent; cross listed MOLB 2021
▲	PHYS	1110	General Physics I	4		Prereq: MATH 1405 or 1450
Credit hours subtotal:				15		

Sophomore Spring Semester

			USP Communication 2	3	C	C2
▲	MICR	2220	Pathogenic Microbiology	3		Prereq: MICR 2021; spring only; cross listed MOLB 2220
▲	CHEM	2440	Organic Chemistry II	4		Prereq: CHEM 2420
	STAT	2050	Fundamentals of Statistics	3		Can substitute STAT 2070
	PHYS	1120	General Physics II	4		Prereq: PHYS 1110
Credit hours subtotal:				17		

This sample degree plan is a guide for course work in the major. • Course sequencing may need to be altered if ACT or Math Placement scores require a student to take pre-college courses before taking required math or English courses. • Not all courses are offered every semester and some electives may have prerequisites. Students should review 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.

¹ Requires MATH ACT \geq 23, MATH SAT \geq 560, Math Placement Exam \geq 3, or concurrent enrollment in MATH 1400 or 1405 or 1450.

² Minimum grade of C in MATH 0925, or level 3 on the MPE, MATH ACT \geq 23; MATH SAT \geq 560 .

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Junior Fall Semester

	MOLB	3610	Principles of Biochemistry	4		Fall; Spring and Summer online
	ANSC	4120	Principles of Mammalian Reproduction	3	C	Fall only
	PATB	4110	Diseases of Food Animals	3	C	Prereq: LIFE 2022; Fall only
			Elective	3		
			Elective	3		
Credit hours subtotal:				16		

Junior Spring Semester

▲	ANSC	3010	Comp Anat and Phys of Domestic Animals	4	C	Prereq: LIFE 1010 and 2022 with C. Spring only
▲	ANSC	3100	Principles of Animal Nutrition	3	C	Prereq: CHEM 2300 or ANSC 2010. Spring only
	LIFE	3050	Genetics	4		
			Elective	3		
			Elective	3		
Credit hours subtotal:				17		

Senior Fall Semester

	PATB	4710	Medical Virology	3		Fall only
	PATB	4400	Immunology	4		Prereq: MICR 2021 or 2220; AND MOLB 3000 or 3610; Fall only
	PATB	4500	Veterinary Parasitology	4		Prereq: 8 hrs of biological sciences; Fall only
			Upper Division Elective	3		
			Livestock Production Elective ³ or UD Elective	3		
Credit hours subtotal:				17		

Senior Spring Semester

▲	ANSC	4630	Topics and Issues in Animal Science	3	C	C3
			UD Elective	3		
			Upper Division Elective	3		
			Upper Division Elective	3		
			Elective	3		
Credit hours subtotal:				15		

TOTAL CREDIT HOURS 128

Animal & Veterinary Sciences - Preveternary Medicine Option Program Notes continued:

³ **Livestock Production Elective. One course should be selected from the following:**

ANSC	3150	Equine Nutrition and Physiology	3	Prereq: 4 hrs of biology; Fall only
ANSC	4220	Advanced Beef Production & Management	3	Prereq: ANSC 3100, 4120, 4540; Spring only
ANSC	4230	Advanced Sheep Production & Management	3	Prereq: ANSC 3100, 4120, 4540; Spring only
41111	4250			

⁴ **Recommended Electives:**

ANSC	4050	Animal Growth & Development	3	Fall only
ATB	4111	4111)	3	Spring only
ANSC	4132	Equine Reproduction	2	Spring only
ANSC	4150	Physiology of Ruminant Digestion	3	Fall only
ANSC	4260	Mammalian Endocrinology	3	Fall only
ANSC	4540	Principles of Animal Breeding	3	Fall only
FDSC	3060	Principles of Meat Science	3	Fall only
PATB	4001	Epidemiology (Diseases in Population)	3	Spring only
PATB	4130	Mammalian Pathobiology	3	Spring only
PATB	4170	Diseases of Wildlife	3	
PATB	4360			