

Animal & Veterinary Science, BS



Animal Biology Option

University of Wyoming, 2015-16

Freshman Fall Semester				Hrs	Min Grade	Notes
		USP First-Year Seminar		3	C	FY
ANSC	1010	Livestock Production		4	C	
CHEM	1020	General Chemistry I *		4	C	PN
LIFE	1010	General Biology **		4	C	PN
Credit hours subtotal:				<u>15</u>		

Freshman Spring Semester				Hrs	Min Grade	Notes
		USP US & Wyoming Constitutions		3		V
CHEM	1030	General Chemistry II		4		
ENGL	1010	College Composition and Rhetoric		3	C	C1
LIFE	2022	Animal Biology		4	C	
MATH	1400	College Algebra		3	C	Q
Credit hours subtotal:				<u>17</u>		

Sophomore Fall Semester				Hrs	Min Grade	Notes
		USP Human Culture		3		H
CHEM	2420	Organic Chemistry I		4		
MATH	1405	Trigonometry		3		
PHYS	1110	General Physics I		4		
		Elective		3		
Credit hours subtotal:				<u>17</u>		

Sophomore Spring Semester				Hrs	Min Grade	Notes
		USP Communication 2		3		C2
CHEM	2440	Organic Chemistry II		4		
PHYS	1120	General Physics II		4		
STAT	2050	Fundamentals of Statistics		4		Can substitute STAT 2070 (Intro Statistics for the Social Sciences).
Credit hours subtotal:				<u>15</u>		

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 - Animal Biology Option Program Notes:

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

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

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Junior Fall Semester				Hrs	Min Grade	Notes
		USP Human Culture		3		H
ANSC	4120	Principles of Mammalian Reproduction		3		C
MATH	2200	Calculus 1		4		
						Can take both MOLB 3610 & MOLB 4100 or can substitute MOLB 4600 (Biochemistry 1: Biomolecules) & MOLB 4610 (Biochemistry 2: Bioenergetics & Metabolism).
MOLB	3610	Principles of Biochemistry		4		
		Elective ***		3		
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
						Can take both MOLB 3610 & MOLB 4100 or can substitute MOLB 4600 (Biochemistry 1: Biomolecules) & MOLB 4610 (Biochemistry 2: Bioenergetics & Metabolism).
MOLB	4100	Clinical Biochemistry		3		
		Upper Division Electives ***		6		
Credit hours subtotal:				<u>16</u>		

Senior Fall Semester				Hrs	Min Grade	Notes
FDSC	3060	Principles of Meat Science		3		C
LIFE	3050	Genetics		4		
						Cross listed with MOLB 2021; can substitute MICR/MOLB 2240 (Medical Microbiology).
MICR	2021	General Microbiology		4		
		Upper Division Elective ***		3		
Credit hours subtotal:				<u>14</u>		

Senior Spring Semester				Hrs	Min Grade	Notes
ANSC	4630	Topics and Issues in Animal Science		3		C C3
PATB	4400	Immunology		4		
ZOO	3600	Principles of Animal Behavior		3		
		Upper Division Electives ***		7		
Credit hours subtotal:				<u>17</u>		

TOTAL CREDIT HOURS: 128

Animal & Veterinary Sciences - Animal Biology Program Notes con't:

*** 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)
- 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)