

## Bachelor of Science in Animal Sciences Pre-Veterinary/Science Option

### University Core (UCORE) and Departmental Requirements:

Minimum of 34 credits required in UCORE, with no more than three, 3-credit courses within the major.

First-Year Experience (3 credits)	Credits	Semester(s) Offered	Taken	Grade
HISTORY 105: Roots of Contemporary Issues [ROOT]	3	Fall, Spring, Summer		

Foundational Competencies (9 credits minimum)				
<i>Written Communication (3) [WRTG]</i>				
ENGLISH 101: Introductory Writing	3	F, Sp, Su		
<i>Communication (3) [COMM]</i>				
COM 102 or H_D 205: Oral Communication	3-4	F, Sp, Su		
<i>Quantitative Reasoning (3) [QUAN]</i>				
STAT 212: Statistics	4	F, Sp, Su		

Ways of Knowing (16 credits minimum)				
<i>Inquiry in the Social Sciences (3) [SSCI]</i>				
ECONS 101: Microeconomics	3	F, Sp, Su		
<i>Inquiry in the Humanities (3) [HUM]</i>				
UCORE Humanities Course	3	F, Sp, Su		
<i>Inquiry in the Creative and Professional Arts (3) [ARTS]</i>				
UCORE Arts Course(s)	3	F, Sp, Su		
<i>Inquiry in the Natural Sciences (7 minimum) [BSCI] [PSCI]</i>				
BIOLOGY 106: Organismal Biology [BSCI]	4	F, Sp, Su		
CHEM 105: Chemistry [PSCI]	4	F, Sp, Su		

Integrative and Applied Learning (6 credits minimum)				
<i>Global Diversity (3) [DIVR]</i>				
UCORE Diversity Course	3	F, Sp, Su		
<i>Integrative Capstone (3) [CAPS]</i>				
UCORE Capstone-see Animal Production Course below		F, Sp		

Animal Sciences Core (16 credits)				
ANIM_SCI 101: Introductory Animal Science	3	F, Sp		
ANIM_SCI 180: Animal Sciences Orientation	1	F		
ANIM_SCI 240: Intro to Domestic Anatomy & Physiology	3	Sp		
ANIM_SCI 313: Feeds and Feeding	4	F (or Sp at U of Idaho)		
ANIM_SCI 330: Animal Genetics	3	F		
ANIM_SCI 350: Physiology of Reproduction	3	Sp (or F at U of Idaho)		
ANIM_SCI 351: Physiology of Reproduction Lab	1	Sp (or F at U of Idaho)		
ANIM_SCI 380: Careers in Animal Science	1	F, Sp		

Additional Requirements for the Major (23 credits)				
Animal Management Lab: ANIM_SCI 166, 172, 174 or 280	1	F, Sp 166, F-172, 174; Sp-280		
Animal Production Course: ANIM_SCI 464, 466, 472, 474, [M] CAPS	3	Varies by course		
BIOLOGY 107: Cell Biology and Genetics	4	F, Sp, Su		
CHEM 106: Chemistry	4	F, Sp, Su		
MATH 106: Pre-Calculus	3	F, Sp, Su		
MATH 108: Trigonometry				
OR Math 140 OR Math 171 (Calculus-4 credits)	2	F, Sp, Su		

Pre-Veterinary/Science Option (43-46 credits)				
Animal Sciences 200-300-Level Electives: 205, 260, 266,267, 274, 285, 314, 315, 345, 360	4-6	Varies by course		
Animal Sciences 400-Level Electives: ANIM_SCI 408, 440, 451, 454, 460, 464, 466, 468, 472, 473, 481, 474, 485, 488	8-9	Varies by course		
CHEM 345: Organic Chemistry	4	F, Sp, Su		
MBIOS/BIOLOGY 301: General Genetics	4	F, Sp, Su		
MBIOS 303: Introductory Biochemistry	4	F, Sp, Su		
PHYSICS 101/111: General Physics	4	F, Sp, Su		
VET_CLIN 361, BIOL 324: Anatomy	3-4	Sp		

Checklist:		
Requirement	Credits	✓
Writing Portfolio/Exam	@60	
Certify Major	24	
UCORE	36-37	
Animal Sciences Core	16	
Additional for Major	23	
Pre-Vet/Science Option	43-46	
Open Electives	variable	
Total Credits	120	
Upper-Division	40	
Writing in the Major	6	

### Notes:

To certify in Animal Sciences, complete Animal Sciences 101 and ≥ 24 credits with cumulative GPA ≥ 2.0.

Courses may be offered in Fall (F), Spring (Sp) and/or Summer (Su). Certain ANIM\_SCI courses may be taken at the University of Idaho.

The Animal Sciences degree focuses on the biology of animals kept by humans for various purposes. The **Pre-Veterinary Medicine/Science Option** places emphasis on basic science courses. This option is recommended for students planning to attend graduate school, work in an area of science or biotechnology, or apply to the professional program leading to the Doctor of Veterinary Medicine.

### SAMPLE FOUR-YEAR PLAN<sup>1</sup>

	Fall Semester	Credits <sup>2</sup>	Spring Semester	Credits
<b>First Year</b>	ANIM_SCI 101 ANIM_SCI 180 *CHEM 105 ENGLISH 101 or HISTORY 105 *MATH 106 or 140	3 1 4 3 3-4 <b>14-15</b>	*BIOLOGY 106 or 107 *CHEM 106 ENGLISH 101 or HISTORY 105 *MATH 108 <sup>3</sup>	4 4 3 2-4 <b>13-15</b>
<b>Second Year</b>	ANIM_SCI 166, 172 or 174 *BIOLOGY 106 or 107 *CHEM 345 COM 102 or H_D 205-Recommended UCORE [ARTS]	1 4 4 3-4 3 <b>15-16</b>	ANIM_SCI 240 *CHEM 370 OR MBIOS 303 *STAT 212 [QUAN] UCORE [HUM] ECONS 101 [SSCI]	3 3-4 4 3 3 <b>16-17</b>
<b>Third Year</b>	ANIM_SCI 313 ANIM_SCI 330 ANIM_SCI 380 *BIOLOGY/MBIOS 301 ANIM_SCI ELECTIVE 200-300 LEVEL <b>Complete Writing Portfolio</b>	4 3 1 4 2-3 <b>14-15</b>	ANIM_SCI 350 ANIM_SCI 351 ANIM_SCI ELECTIVE 200-300 LEVEL UCORE [DIVR] *PHYSICS 101 ELECTIVES	3 1 2-3 3 4 3 <b>16-17</b>
<b>Fourth Year</b>	ANIM_SCI 464[CAPS][M], 472[CAPS][M] ANIM_SCI 400-Level Elective Electives	3 5-6 6-7 <b>14-16</b>	ANIM_SCI 400 Level Elective [M] UCORE [CAPS] if needed, ANIM_SCI 474 VET_CLIN 361, BIOL 324, or VET_PH 308, ELECTIVES	3 3 3-4 6-8 <b>15-18</b>

<sup>1</sup>This is an example of a 4-year plan. Your program may include different courses. Consult with your advisor about the best combination and order of courses for you.

<sup>2</sup>Total credits must equal at least 120 including 40 credits of upper division-300-400 level. Students typically complete more than the minimum.

\***VETERINARY MEDICINE PREREQUISITES:** BIOLOGY 106 & 107, CHEM 105, 106 & 345, MATH 106 & 108 (or calculus), MBIOS/BIOLOGY 301, MBIOS 303 or CHEM 370, PHYSICS 101, and STAT 212 (or STAT 412 or PSYCH 311) are prerequisites for entry into the WSU Veterinary Medicine program in addition to completion of the UCORE (or BS degree). Students are encouraged to take additional upper division science courses including, but not limited to, animal nutrition, physiology, anatomy, microbiology and immunology. Participation in undergraduate research (AS 499) is also recommended. CHEM 348 should be taken in preparation for graduate and professional programs requiring two semesters of organic chemistry.