

## BACHELOR OF SCIENCE DEGREE in ANIMAL AND VETERINARY SCIENCES

Total Credit Hours Required: 120  
(Effective Fall 2023)

First Year - Fall		First Year - Spring	
AVS 145 - Introduction to Animal Science	3	BIO 200 - Biology of Organisms	4
AVS 146 - Introduction to Animal Science Lab	1	CMJ 103 - Public Speaking	3
BIO 100 - Basic Biology	4	STS 132 - Principles of Statistical Inference	3
ENG 101 - College Composition	3	General Education: Cultural Diversity and International Perspectives	3
MAT 116 - Introduction to Calculus	3	Animal Science Elective	3
NFA 117 - First-Year Success Seminar	1		
	<b>15</b>		<b>16</b>
Second Year - Fall		Second Year - Spring	
AVS 211 - Introduction to Aquaculture	3	AVS 249 - Laboratory and Companion Animal Science	3
AVS 254 - Introduction to Animal Microbiomes	3	AVS 303 - Equine Management Cooperative	2
AVS 303 - Equine Management Cooperative	2	<b>or</b>	
<b>or</b>		AVS 347 - Dairy Cattle Technology Laboratory	2
AVS 347 - Dairy Cattle Technology Laboratory	2	BMB 208 - Elementary Physiological Chemistry	3
AVS 346 - Dairy Cattle Technology	3	BMB 210 - Elementary Physiological Chemistry Laboratory	1
BMB 207 - Fundamentals of Chemistry	3	<b>or</b>	
BMB 209 - Fundamentals Chemistry Laboratory	1	CHY 122 - General Chemistry II	3
<b>or</b>		CHY 124 - General Chemistry Laboratory II	
CHY 121 - General Chemistry I	3	ECO 154 - Small Business Economics and Management	3
CHY 123 - General Chemistry Laboratory I	1	General Education: Western Cultural Tradition	<b>3</b>
	<b>15</b>		<b>15</b>
Third Year - Fall		Third Year - Spring	
AVS 455 - Animal Nutrition	3	AVS 401 - Capstone in Animal Science I	2
BIO 377 - Medical Physiology	3	AVS 437 - Animal Diseases	3
ENG 315 - Research Writing in the Disciplines	3	Animal Science Elective	3
<b>or</b>		General Elective	6
ENG 317 - Business and Technical Writing	3		
Animal Science Elective	3		
General Elective	4		
	<b>16</b>		<b>14</b>
Fourth Year - Fall		Fourth Year - Spring	
AVS 480 - Physiology of Reproduction	3	AVS 402 - Capstone in Animal Science II	2
BIO 350 - Concepts and Applications of Genetics	3	AVS 446 - Forage Science and Range Management	3
Career-Related Experience	4	AVS 466 - Livestock Feeds and Feeding	2
General Education: Ethics	3	General Education: Artistic and Creative Expression	3
General Elective	3	General Elective	3
	<b>16</b>		<b>13</b>

**Animal Science Electives** - Choose at least 9 credits

<b>(S = Spring; F = Fall; Su = Summer; B = Both semesters)</b>	<b>Credits</b>
AVS 196 (B, Su) Introduction to Equine Cooperative	1
AVS 203 (S) Equine Management (even yrs)	3
AVS 267 (F, odd yrs) Swine Production	1
AVS 268 (F, even yrs) Pasture Poultry Production	1
AVS 353 (S) Equine Reproduction and Breeding Management	3
AVS 393 (F) Training the Standardbred Horse	3
AVS 405 (F, even yrs) Livestock and Companion Animal Behavior	3
AVS 411 (S) Advanced Aquaculture	3
AVS 433 (S, even yrs) Equine Exercise Physiology	3
AVS 454 (S), DNA Sequencing Analysis Laboratory	2
AVS 456 (F) Animal Nutrition Laboratory	1
AVS 477 (F) Zoonoses and Animal Health	3

**Career-Related Experience** - Choose at least 4 credits

<b>Course Name</b>	<b>Credits</b>
AVS 371 (B) University Dairy Cooperative	4
AVS 396 (B, Su) Field Experience in Animal and Veterinary Science	1-4
AVS 397 (B, Su) Equine Internship	1-4

**General Education Requirements** - 18 total credits required

<b>Human Values and Social Contexts Sub-Categories</b>	<b>Course Taken</b>	<b>Credits</b>
1. Western Cultural Tradition		3
2. Social Contexts and Institutions	CMJ 103 Public Speaking	3
	ECO 254 Small Business Economics and Management	3
3. Cultural Diversity and International Perspectives		3
4. Population and the Environment	AVS 254 Introduction to Animal Microbiomes	3
5. Artistic and Creative Expression		3

<b>Ethics</b>	<b>Course Taken</b>	<b>Credits</b>
Ethics Course		3

**Revised: March 23, 2023**