## Bachelor of Science Degree in Animal and Veterinary Sciences
### Equine Science Concentration

Total Credit Hours Required: 120

**(Effective Fall 2020)**

### First Year - Fall
- **AVS 145** - Introduction to Animal Science 3
- **AVS 146** - Introduction to Animal Science Lab 1
- **BIO 100** - Basic Biology 4
- **ENG 101** - College Composition 3
- **MAT 116** - Introduction to Calculus 3
- **NFA 117** - Issues and Opportunities 1

### First Year - Spring
- **AVS 196** - Introduction to Equine Cooperative 1
- **BIO 200** - Biology of Organisms 4
- **CMJ 103** - Public Speaking 3
- **STS 232** - Principles of Statistical Inference 3
- **Animal Science Elective** 3

Total Credit Hours Required: 15

### Second Year - Fall
- **AVS 254** - Introduction to Animal Microbiomes 3
- **AVS 303** - Equine Management Cooperative 2
- **AVS 347** - Dairy Cattle Technology Laboratory 2
- **AVS 346** - Dairy Cattle Technology 3
- **AVS 393** - Training the Standardbred Horse 3
- **BMB 207** - Fundamentals of Chemistry 3
- **BMB 209** - Fundamentals of Chemistry Laboratory 1

or
- **AVS 303** - Equine Management Cooperative 2

### Second Year - Spring
- **AVS 203** - Equine Management 3
- **AVS 249** - Laboratory and Companion Animal Science 3
- **AVS 347** - Dairy Cattle Technology Laboratory 2
- **AVS 346** - Elementary Physiological Chemistry 3
- **AVS 203** - Equine Management Cooperative 2
- **CHY 122** - General Chemistry 3
- **CHY 124** - General Chemistry Laboratory II 1

Total Credit Hours Required: 15

### Third Year - Fall
- **AVS 405** - Livestock and Companion Animal Behavior 3
- **AVS 455** - Animal Nutrition 3
- **BIO 377** - Medical Physiology 3
- **ENG 315** - Research Writing in the Disciplines 3
- **Business course** 3
- **General Elective** 3

### Third Year - Spring
- **AVS 353** - Equine Reproduction and Breeding Management 3
- **AVS 437** - Animal Diseases 3
- **ENG 315** - Research Writing in the Disciplines 3
- **General Education: Cultural Diversity and International Perspectives** 3
- **General Education: Ethics** 3

Total Credit Hours Required: 15

### Fourth Year - Fall
- **AVS 397** - Equine Internship 4
- **AVS 401** - Senior Paper in Animal Science I 2
- **AVS 480** - Physiology of Reproduction 3
- **BIO 350** - Genetics 3
- **General Education: Western Cultural Tradition** 3

### Fourth Year - Spring
- **AVS 402** - Senior Paper in Animal Science II 2
- **AVS 433** - Equine Exercise Physiology 3
- **AVS 446** - Forage Science and Range Management 3
- **AVS 466** - Livestock Feeds and Feeding 2
- **Animal Science Elective** 3

Total Credit Hours Required: 16

*Revised: September 9, 2020*
Animal Science Electives - Choose from list below

<table>
<thead>
<tr>
<th>Course Taken</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AVS 211 (F) Introduction to Aquaculture</td>
<td>3</td>
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<tr>
<td>AVS 231 (B) Sheep Management Cooperative</td>
<td>2</td>
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<tr>
<td>AVS 454 (S) DNA Sequencing Analysis Laboratory</td>
<td>2</td>
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<td>AVS 456 (F) Animal Nutrition Laboratory</td>
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<td>AVS 477 (F) Zoonoses and Animal Health</td>
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Business Course - Choose from list below

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<tbody>
<tr>
<td>ACC 101 (B) Introduction to Business</td>
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<tr>
<td>ACC 201 (B) Principles of Financial Accounting</td>
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<tr>
<td>BIS 235 (B) Information Systems and Technology for Business</td>
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<td>MGT 342 (S) Small Business Management</td>
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General Education Requirements - 18 total credits required

<table>
<thead>
<tr>
<th>Human Values and Social Contexts</th>
<th>Course Taken</th>
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<tbody>
<tr>
<td>Sub-Categories</td>
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<tr>
<td>1. Western Cultural Tradition</td>
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<tr>
<td>2. Social Contexts and Institutions</td>
<td>CMJ 103 Public Speaking</td>
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<td>ECO 254 Small Business Economics and Management</td>
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<td>3. Cultural Diversity and International Perspectives</td>
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<td>5. Artistic and Creative Expression</td>
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<tr>
<th>Ethics</th>
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