Equine Science

Department Information

- **Department Web Site:**
  www.ndsu.edu/agriculture/academics/academic-units/animal-sciences (http://www.ndsu.edu/agriculture/academics/academic-units/animal-sciences/)

- **Credential Offered:**
  B.S.

- **Sample Program Guide:**
  catalog.ndsu.edu/programs-study/undergraduate/equine-science/#planofstudytext (http://catalog.ndsu.edu/programs-study/undergraduate/equine-science/#planofstudytext)

**Major Requirements**

**Major: Equine Science**

**Degree Type:** B.S.

**Minimum Degree Credits to Graduate:** 120

**University Degree Requirements**

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student’s curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

**University General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>College Composition I</td>
<td></td>
</tr>
<tr>
<td>ENGL 120</td>
<td>College Composition II</td>
<td></td>
</tr>
<tr>
<td>COMM 110</td>
<td>Fundamentals of Public Speaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper Division Writing †</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Reasoning (R) †</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science and Technology (S) †</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Humanities and Fine Arts (A) †</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences (B) †</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Wellness (W) †</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity (D) †</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Global Perspectives (G) †</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>39</strong></td>
</tr>
</tbody>
</table>

* May be satisfied by completing courses in another General Education category.

† General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.
A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

## Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Core Courses for Equine Science</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 223</td>
<td>Introduction to Animal Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 235</td>
<td>Equine Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 260</td>
<td>Introduction to Equine Studies</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 260L</td>
<td>Equine Care and Management Practicum</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 261</td>
<td>Basic Equitation &amp; Horsemanship</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 357</td>
<td>Animal Genetics</td>
<td>3</td>
</tr>
<tr>
<td>or ANSC 358</td>
<td>Equine Genetics</td>
<td></td>
</tr>
<tr>
<td>ANSC 360</td>
<td>Equine Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 364</td>
<td>Equine Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 370</td>
<td>Fundamentals/Animal Disease</td>
<td>3</td>
</tr>
<tr>
<td>or ANSC 371</td>
<td>Fundamentals of Animal Disease II</td>
<td></td>
</tr>
<tr>
<td>ANSC 480</td>
<td>Equine Industry and Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 478</td>
<td>Research and Issues in Animal Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 393</td>
<td>Undergraduate Research</td>
<td>2</td>
</tr>
<tr>
<td>or ANSC 396</td>
<td>Field Experience</td>
<td></td>
</tr>
<tr>
<td>ANSC 463</td>
<td>Physiology of Reproduction</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 463L</td>
<td>Physiology of Reproduction Laboratory</td>
<td>1</td>
</tr>
<tr>
<td><strong>Animal Science Electives</strong></td>
<td>Select 9 credits of ANSC prefix courses</td>
<td>9</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>ANSC 101</td>
<td>Student Success Techniques - Animal and Equine Science</td>
<td></td>
</tr>
<tr>
<td>ANSC 102</td>
<td>Student Success Techniques - Animal Sciences with Pre-Veterinary Medicine Emphasis</td>
<td></td>
</tr>
<tr>
<td>ANSC 201</td>
<td>Student Success Techniques - Nontraditional &amp; Transfer Students</td>
<td></td>
</tr>
<tr>
<td>VETS 150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one pair from the following:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>BIOL 111 &amp; BIOL 100L</td>
<td>Concepts of Biology and Non-Majors Biology Lab</td>
<td></td>
</tr>
<tr>
<td>BIOL 150 &amp; 150L</td>
<td>General Biology I and General Biology I Laboratory</td>
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</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>MATH 103</td>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MATH 107</td>
<td>Precalculus</td>
<td></td>
</tr>
<tr>
<td>MATH 146</td>
<td>Applied Calculus I</td>
<td></td>
</tr>
<tr>
<td>AGEC 242</td>
<td>Introduction to Agricultural Management</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 244</td>
<td>Agricultural Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 260</td>
<td>Elements of Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 117 &amp; 117L</td>
<td>Chemical Concepts and Applications and Chem Concepts and Applications Lab (May satisfy general education category S)</td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MICR 202 &amp; 202L</td>
<td>Introductory Microbiology and Introductory Microbiology Lab (May satisfy general education category S)</td>
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</tr>
<tr>
<td>PLSC 315</td>
<td>Genetics (May satisfy general education category S)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 330</td>
<td>Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>VETS 135</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Choose from any level PLSC, NRM, or RNG</td>
<td></td>
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</tr>
</tbody>
</table>

**Total Credits** 81
Degree Requirements and Notes:
- Students must earn at least a 2.00 GPA that is based on the courses that are used to satisfy major requirements.
- Transfer grades of 'C' or better to count towards major requirements.

## Minor Requirements

**Minor: Equine Science**

**Required Credits:** 16

### Minor Requirements

<table>
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<td>or ANSC 261</td>
<td>Basic Equitation &amp; Horsemanship</td>
<td></td>
</tr>
<tr>
<td>ANSC 360</td>
<td>Equine Nutrition *</td>
<td>3</td>
</tr>
<tr>
<td>or ANSC 364</td>
<td>Equine Anatomy and Physiology</td>
<td></td>
</tr>
</tbody>
</table>

### Elective Courses: Select a minimum of 8 credits from the following:

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>ANSC 235</td>
<td>Equine Evaluation</td>
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</tr>
<tr>
<td>ANSC 300</td>
<td>Domestic Animal Behavior and Management</td>
<td></td>
</tr>
<tr>
<td>ANSC 357</td>
<td>Animal Genetics</td>
<td></td>
</tr>
<tr>
<td>or ANSC 358</td>
<td>Equine Genetics</td>
<td></td>
</tr>
<tr>
<td>ANSC 360</td>
<td>Equine Nutrition *</td>
<td></td>
</tr>
<tr>
<td>ANSC 361</td>
<td>Intermediate Horsemanship</td>
<td></td>
</tr>
<tr>
<td>ANSC 362</td>
<td>Colts in Training</td>
<td></td>
</tr>
<tr>
<td>ANSC 364</td>
<td>Equine Anatomy and Physiology *</td>
<td></td>
</tr>
<tr>
<td>ANSC 371</td>
<td>Fundamentals of Animal Disease II</td>
<td></td>
</tr>
<tr>
<td>ANSC 461</td>
<td>Advanced Horsemanship and Equitation</td>
<td></td>
</tr>
<tr>
<td>ANSC 463</td>
<td>Physiology of Reproduction</td>
<td></td>
</tr>
<tr>
<td>ANSC 480</td>
<td>Equine Industry and Production Systems</td>
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</tr>
<tr>
<td>ANSC 496</td>
<td>Field Experience</td>
<td></td>
</tr>
</tbody>
</table>

* If both courses are completed successfully, the second course will apply towards Elective Courses category.

### Minor Requirements and Notes:
- A minimum of 8 credits must be taken at NDSU.
- Students must earn a minimum 2.00 GPA for the minor requirements.