Equine Science

Department Information

- **Department Location:** Hultz Hall
- **Department Phone:** 701-231-7641
- **Department Email:** ndsu.ansc@ndsu.edu
- **Department Web Site:** www.ag.ndsu.edu/ansc/ (http://www.ag.ndsu.edu/ansc/)
- **Credential Offered:** B.S.
- **Plan Of Study Sample:** bulletin.ndsu.edu/programs-study/undergraduate/equine-science/#planofstudytext (http://bulletin.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 36 credits presented for graduation must be in courses numbered 300 or higher.
6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
   a. Of these 60, at least 36 must be NDSU resident credits as defined in #7.
   b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
7. At least 36 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (http://bulletin.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>3</td>
</tr>
<tr>
<td>ENGL 120</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>COMM 110</td>
<td>Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Writing †
Quantitative Reasoning (R) ‡
Science and Technology (S) ‡
Humanities and Fine Arts (A) ‡
Social and Behavioral Sciences (B) ‡
Wellness (W) ‡
Cultural Diversity (D) ‡
Global Perspectives (G) ‡

Total Credits 39
Equine Science

* 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://bulletin.ndsu.edu/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

## Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Core Courses for Equine Science</strong></td>
<td></td>
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</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>
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<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></td>
<td></td>
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<tr>
<td>Select 9 credits of ANSC prefix courses</td>
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</table>

Select one of the following:

- ANSC 101 Student Success Techniques - Animal and Equine Science
- ANSC 102 Student Success Techniques - Animal Sciences with Pre-Veterinary Medicine Emphasis
- ANSC 201 Student Success Techniques - Nontraditional & Transfer Students
- VETS 150 Introduction to the Veterinary Profession

Select one pair from the following:

- BIOL 111 Concepts of Biology
- & BIOL 100L Non-Majors Biology Lab
- BIOL 150 General Biology I
- & 150L General Biology I Laboratory

Select one of the following:

- MATH 103 College Algebra
- MATH 105 Trigonometry
- MATH 107 Precalculus
- MATH 146 Applied Calculus I
- AGEC 242 Introduction to Agricultural Management
- AGEC 244 Agricultural Marketing
- BIOC 260 Elements of Biochemistry
- CHEM 117 Chemical Concepts and Applications
- & 117L and Chem Concepts and Applications Lab (May satisfy general education category S)
- ECON 201 Principles of Microeconomics (May satisfy general education category B)
- MICR 202 Introductory Microbiology
- & 202L and Introductory Microbiology Lab (May satisfy general education category S)
- PLSC 315 Genetics (May satisfy general education category S)
- STAT 330 Introductory Statistics (May satisfy general education category R)
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.