

Equine Science

Equine Science Major

The Equine Science major is designed to prepare students for careers in the equine industry and related fields. Course work includes practical husbandry and equitation skills, scientific principles related to management and study of equine industry and business practices.

Equine Science Minor

Students from other majors may minor in Equine Science by completing a minimum of 16 credits. A minimum of eight credits must be completed at NDSU.

Equine Science Certificate

The certificate program in Equine Science provides an opportunity for non-degree seeking students to enhance their horse knowledge. The program focuses on basic selection, management, and business concepts and requires completion of 17 credits. Prospective students are subject to the university's admission policies and procedures.

Major Requirements

Major: Equine Science

Degree Type: B.S.

Required Degree Credits to Graduate: 128

General Education Requirements

First Year Experience (F):

AGRI 189	Skills for Academic Success (Students transferring in 24 or more credits do not need to take AGRI 189.)	1
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Communication (C):

ENGL 110	College Composition I	3
ENGL 120	College Composition II	3
COMM 110	Fundamentals of Public Speaking	3

One Course in Upper Level Writing

ENGL 320	Business and Professional Writing	3
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Quantitative Reasoning (R):

STAT 330	Introductory Statistics	3
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Science & Technology (S):

CHEM 117 & 117L	Chemical Concepts and Applications and Chem Concepts and Applications Lab	4
MICR 202 & 202L	Introductory Microbiology and Introductory Microbiology Lab	3
PLSC 110	World Food Crops	3

Humanities & Fine Arts (A): Select from current general education list 6

Social & Behavioral Sciences (B):

ECON 201	Principles of Microeconomics	3
Select from current general education courses		3

Wellness (W): Select from current general education list 2

Cultural Diversity (D): Select from current general education list

Global Perspective (G):

PLSC 110	World Food Crops	
Total Credits		40

Major Requirements

General Education Requirements 40

Required Core Courses for Equine Science

ANSC 223	Introduction to Animal Nutrition	2
ANSC 260	Introduction to Equine Studies	2
ANSC 260L	Equine Care and Management Practicum	1
ANSC 261	Basic Equitation & Horsemanship	1
ANSC 357	Animal Genetics	3
or ANSC 358	Equine Genetics	
ANSC 360	Equine Nutrition	3
ANSC 364	Equine Anatomy and Physiology	3
ANSC 365	Equine Evaluation	2
ANSC 480	Equine Industry and Production Systems	3
ANSC 478	Research and Issues in Animal Agriculture	3
ANSC 496	Field Experience	2
RNG 336	Introduction to Range Management	3
or PLSC 320	Principles of Forage Production	
ANSC/ZOO 463	Physiology of Reproduction	3
ANSC/ZOO 463L	Physiology of Reproduction Laboratory	1
ANSC	Electives	6

Supporting Courses

AGEC 242	Introduction to Agricultural Management	4
AGEC 244	Agricultural Marketing	3

Select one of the following (Students transferring in 24 or more credits may be exempt from this requirement):

AGRI 150	Agriculture Orientation	
ANSC 150	Animal Science Orientation	
VETS 150	Introduction to the Veterinary Profession	
ANSC 370	Fundamentals/Animal Disease	3
CHEM 260	Elements of Biochemistry	4
MATH 103	College Algebra	3
BIOL 111 & 111L	Concepts of Biology and Concepts of Biology Lab	4
PLSC 315	Genetics	3
VETS 135	Anatomy and Physiology of Domestic Animals	3

Degree Requirements: Potential of 22 credits to reach degree minimum of 128.

Total Credits	128
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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

Equine Science Minor

Minor Requirements

Required Credits: 16

Required Courses

ANSC 223	Introduction to Animal Nutrition	2
ANSC 260	Introduction to Equine Studies	2
ANSC 260L or ANSC 261	Equine Care and Management Practicum Basic Equitation & Horsemanship	1
ANSC 360 or ANSC 364	Equine Nutrition Equine Anatomy and Physiology	3

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

ANSC 300	Domestic Animal Behavior and Management	
ANSC 357 or ANSC 358	Animal Genetics Equine Genetics	
ANSC 361	Intermediate Horsemanship	
ANSC 362	Colts in Training	
ANSC 365	Equine Evaluation	
ANSC 375	Methods of Horsemanship Instruction	
ANSC 461	Advanced Horsemanship and Equitation	
ANSC 463	Physiology of Reproduction	
ANSC 480	Equine Industry and Production Systems	
ANSC 496	Field Experience	

Total Credits 16

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.

Certificate Requirements**Equine Science Certificate****Certificate Requirements****Required Credits: 17****Requirements**

ANSC 260	Introduction to Equine Studies	2
ANSC 260L	Equine Care and Management Practicum	1
ANSC 261	Basic Equitation & Horsemanship	1
ANSC 365	Equine Evaluation	2
AGEC 242	Introduction to Agricultural Management	4
ANSC 360	Equine Nutrition	3
ANSC 361	Intermediate Horsemanship	1
ANSC 364	Equine Anatomy and Physiology	3

Total Credits 17