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 16 credits. Prospective students are subject to the university's admission policies and procedures.

Major Requirements

Major: Equine Science

Degree Type: B.S.

ANSC 235

ANSC 260

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	
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. Select from current general education list			
Quantitative Reasoning (R):			
STAT 330	Introductory Statistics	3	
Science & Technology (S):			
CHEM 117	Chemical Concepts and Applications	4	
& 117L	and Chem Concepts and Applications Lab		
MICR 202	Introductory Microbiology	3	
& 202L	and Introductory Microbiology Lab		
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			
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			
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General Education Requirements		40	
Required Core Courses for Equine			
ANSC 223	Introduction to Animal Nutrition	2	

Equine Evaluation

Introduction to Equine Studies

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 480	Equine Industry and Production Systems	3
ANSC 478	Research and Issues in Animal Agriculture	3
RNG 336	Introduction to Range Management	3
or PLSC 320	Principles of Forage Production	
ANSC 393	Undergraduate Research	2
or ANSC 396	Field Experience	
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	3
AGEC 244	Agricultural Marketing	3
Select one of the following (S	Students transferring in 24 or more credits may be exempt from this requirement):	1
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 (or higher level; except MATH 104)	3
BIOL 111	Concepts of Biology	4
& 111L	and Concepts of Biology Lab	
or BIOL 150	General Biology I	
& 150L	and General Biology I Laboratory	
PLSC 315	Genetics	3
VETS 135	Anatomy and Physiology of Domestic Animals	3
Degree Requirements: Pot	tential of 23 credits to reach degree minimum of 128.	23
Total Credits		128

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	Equine Care and Management Practicum	1
or ANSC 261	Basic Equitation & Horsemanship	
ANSC 360	Equine Nutrition	3
or ANSC 364	Equine Anatomy and Physiology	
Elective Courses: Select a minimum of 8 credits from the following:		
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ANSC 235 Equine Evaluation

Total Credits		16
ANSC 496	Field Experience	
ANSC 480	Equine Industry and Production Systems	
ANSC 463	Physiology of Reproduction	
ANSC 461	Advanced Horsemanship and Equitation	
ANSC 375	Methods of Horsemanship Instruction	
ANSC 362	Colts in Training	
ANSC 361	Intermediate Horsemanship	
or ANSC 358	Equine Genetics	
ANSC 357	Animal Genetics	
ANSC 300	Domestic Animal Behavior and Management	

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: 16

Requirements

Total Credits		16
ANSC 364	Equine Anatomy and Physiology	3
ANSC 361	Intermediate Horsemanship	1
ANSC 360	Equine Nutrition	3
AGEC 242	Introduction to Agricultural Management	3
ANSC 261	Basic Equitation & Horsemanship	1
ANSC 260L	Equine Care and Management Practicum	1
ANSC 260	Introduction to Equine Studies	2
ANSC 235	Equine Evaluation	2
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