

## **EQUINE SCIENCE**

The equine science program includes course work in equestrian styles, nutrition and physiology, selection and management of the horse enterprise. The roles of the horse in society—recreational, therapeutic and performance—are discussed.

### **The Program**

The department offers programs of study and extra-curricular activities that facilitate the development of the student in the horse industry at many diverse entry points.

### **The Curriculum**

The equine science major is designed to provide a strong overall background with supporting course work in the sciences, humanities and general education. The student will be prepared in equine production and management.

The choice of a minor in equine science offers the student diversity in his or her educational program while preparing the participant for recreational endeavors involving horsemanship. A minor in equine science can accompany essentially any major offered at North Dakota State University.

A minor in equine assisted activities and therapies provides students with a background in therapeutic horsemanship. This minor can accompany essentially any major offered at NDSU.

### **Career Opportunities**

Equine science students are qualified to become involved in many diverse occupations. These include such varied activities as training horses, managerial support, sales of pharmaceuticals and livestock products, and other agribusiness professions. Graduates are likely to obtain employment at academic institutions, government stations, foreign assignments and private industry. Specific areas of employment are 4-H Extension opportunities, university and community college teaching, horse exhibitions and horse breeding operations. Animal feed sales, equine magazine publications and public relations for breeding operations provide many different avenues of opportunity.

### **Extra-Curricular Activities**

The NDSU Horsemen's Association supports a variety of horse-related activities, including the Intercollegiate Horse Show team.

The NDSU Rodeo Club provides students the opportunity to gain experience and knowledge of the sport of rodeo. The club supports the Intercollegiate Rodeo Team and also sponsors the NDSU Rodeo held each fall.

### **Financial Aid and Scholarships**

Part-time work and work-study programs in several different livestock units, highly functional animal science laboratories and a myriad of other employment opportunities exist. Numerous college awards and departmental scholarships are competitively available and typically awarded in the spring semester. The College of Agriculture, Food Systems, and Natural Resources awards additional scholarships each year. Contact the Office of the Dean, College of Agriculture, Food Systems, and Natural Resources, NDSU, for more information. Student loan, grant and work-study information is available from the Office of Financial Aid and Scholarships, and One Stop.

## Equine Science Plan of Study

Please note this is a sample plan of study; actual student schedules will vary depending on start year, individual goals, applicable transfer credit, and course availability. Students are encouraged to work with their academic advisor on a regular basis to review degree progress and customize their own plan of study.

<b>First Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ANSC 101 Student Success Techniques - Animal and Equine Science	2	ANSC 223 Introduction to Animal Nutrition	2
ANSC 260 Introduction to Equine Studies	1	BIOL 111 Concepts of Biology	3
MATH 103 College Algebra	3	BIOL 111L Concepts of Biology Lab	1
ENGL 110 College Composition I	4	COMM 110 Fundamentals of Public Speaking	3
VETS 135 Anatomy and Physiology of Domestic Animals	3	ENGL 120 College Composition II	3
Gen Ed Social & Behavioral Sciences/Gen Ed Cultural Diversity	3	Gen Ed Humanities & Fine Arts	3
	<b>16</b>		<b>15</b>
<b>Second Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
AGEC 242 Introduction to Agricultural Management	3	AGEC 244 Agricultural Marketing	3
ANSC 235 Equine Evaluation	2	MICR 202 Introductory Microbiology	2
ANSC 261 Basic Equitation & Horsemanship	1	MICR 202L Introductory Microbiology Lab	1
CHEM 117 Chemical Concepts and Applications	3	STAT 330 Introductory Statistics	3
CHEM 117L Chem Concepts and Applications Lab	1	ECON 201 Principles of Microeconomics	3
ANSC 260L Equine Care and Management Practicum	1	Gen Ed Humanities & Fine Arts	3
Elective	3		
	<b>14</b>		<b>15</b>
<b>Third Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ANSC 360 Equine Nutrition	3	ANSC 364 Equine Anatomy and Physiology	3
PLSC 315 Genetics	3	ANSC 358 Equine Genetics	2
Gen Ed ENGL 32X Upper-level Writing	3	BIOC 260 Elements of Biochemistry	4
NRM/PLSC/RNG Any level course	3	ANSC 371 Fundamentals of Animal Disease II	3
ANSC Elective	3	Elective	3
	<b>15</b>		<b>15</b>
<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ANSC 393/396 Internship/Research	2	ANSC 480 Equine Industry and Production Systems	3
ANSC Elective	6	ANSC 478 Research and Issues in Animal Agriculture	3
Elective	5	ANSC 463 Physiology of Reproduction	3
Gen Ed Wellness	2	ANSC 463L Physiology of Reproduction Laboratory	1
	<b>15</b>	Elective	5
			<b>15</b>
<b>Total Credits: 120</b>			

View NDSU equivalencies of transfer courses at: [www.ndsu.edu/transfer/equivalencies](http://www.ndsu.edu/transfer/equivalencies)

### For Further Information

Department of Animal Sciences  
North Dakota State University  
Hultz Hall 100  
Dept #7630  
PO Box 6050  
Fargo, ND 58108-6050

Phone: (701) 231-7641  
Fax: (701) 231-7590  
Email: [ndsu.equinescience@ndsu.edu](mailto:ndsu.equinescience@ndsu.edu)  
Web: [www.ag.ndsu.edu/equinescience/](http://www.ag.ndsu.edu/equinescience/)