

EQUINE SCIENCE, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description

The Equine Science minor is designed for students who wish to supplement their academic major with studies in equine science. Students are required to complete a minimum of 22 credits. The core prescribed courses develop a foundation in the basic disciplines of animal science and equine science. Additional courses may be selected by the student to allow further specialization and expertise in exercise physiology and training principles, business/farm management, animal genetics and breeding, nutrition, physiology, and using horses for human therapy. With completion of this minor, students will have a foundation of theoretical and practical knowledge along with skills for adapting to changes in equine industry. Courses in the minor are appropriate for students with and without prior academic or practical experience with horses. The University Horse Farms and the Agricultural Arena are used extensively for supplementing classroom work with hands-on laboratories. Completion of this minor will enhance a student's ability to work directly in horse production and management and allied industries, or continue academic studies in graduate or professional school.

What is Equine Science?

Equine science is a branch of animal science focused on the scientific study of horses and related equids. Areas of study include nutrition, physiology, reproduction, genetics, growth, behavior, and management. The integration of these individual disciplines forms the basis for horse care and management. The business side of equine science includes farm management, marketing, and public relations.

You Might Like This Program If...

- You are passionate about horses.
- You would like to develop a specialization within Animal Science.
- You want to understand why we choose certain management strategies.
- You want to pursue a career related to horses.

Program Requirements

Requirement	Credits
Requirements for the Minor	22

Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

Some selections may require prerequisites not required by the minor.

Code	Title	Credits
Prescribed Courses		
<i>Prescribed Courses: Require a grade of C or better</i>		

ANSC 107	Introduction to Equine Science and the Equine Industry	3
ANSC 201	Animal Science	4
ANSC 217	Introduction to Horse Judging	2
ANSC 327	Horse Production and Management	4

Additional Courses

Additional Courses: Require a grade of C or better

Select 3 credits of the following: 3

ANSC 437	Equine Facilitated Therapy	
ANSC 447	Equine Exercise Physiology	
ANSC 457	Equine Reproduction and Breeding Farm Management	
ANSC 467W	Equine Nutrition and Feeding	

Select 6-7 credits from the following (3 credits must be at the 400-level): 6-7

AGRO 423	Forage Crop Management	
ANSC 117	Equine Marketing	
ANSC 317	Horse Handling and Training	
ANSC 415	Companion Animal Behavior	
ANSC 418	Nutrient Management in Agricultural Systems	
ANSC 419W	Applied Animal Welfare	
ANSC 420	Animal Nutrition and Feed Technology	
ANSC 423	Comparative Physiology of Domestic Animals	
ANSC 427	Milk Secretion	
ANSC 431	Physiology of Animal Reproduction	
ANSC 437	Equine Facilitated Therapy	
ANSC 447	Equine Exercise Physiology	
ANSC 457	Equine Reproduction and Breeding Farm Management	
ANSC 467W	Equine Nutrition and Feeding	
ANSC 477	Riding Instructor Training	
VBSC 403	Principles of Animal Disease Control	

Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and-out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

University Park

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Career Paths

Penn State students with an Equine Science minor have successfully established careers in a wide array of fields. Their in-depth study in one or more subject areas demonstrates expertise valued by employers. Students are encouraged to participate in internships, externships, work experiences, and departmental research, all of which provide hands-on learning. Many of these opportunities are publicized through the Animal Science Student Services office.

Careers

Career opportunities in equine science are limited only by your imagination. If you think of anything related to a horse or horse management, there's a career related to it. Some examples include veterinarian, research scientist, stable manager, feed industry sales/service, pharmaceutical sales/service, breeding lab manager, ag finance, equipment sales/service, animal caretaker, marketing director, public relations, sales preparation/management, trainer, cooperative extension, and retail sales.

Opportunities for Graduate Studies

Equine Science students who wish to pursue graduate studies can find opportunities at numerous institutions. These include Master's, Ph.D., and D.V.M./V.M.D. programs at land-grant institutions, veterinary schools, and other institutions with equine and animal science areas of study.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES
(<https://animalscience.psu.edu/graduate/>)

Contact

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