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 20 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, selection and judging, business/farm management, animal genetics and breeding, nutrition, and physiology. With completion of this minor, students will have a foundation of theoretical and practical knowledge along with learning skills for adapting to changes in equine industry. Courses that make up 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

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<tr>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Requirements for the Minor</td>
<td>20-22</td>
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Requirements for the Minor
At least 6 credits must be at the 400 level.

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANSC 201</td>
<td>Animal Science</td>
<td>4</td>
</tr>
<tr>
<td>ANSC 217</td>
<td>Introduction to Horse Judging</td>
<td>2</td>
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Additional Courses

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<tr>
<th>Code</th>
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<tr>
<td>ANSC 37</td>
<td>Horse and Man</td>
<td>2</td>
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<tr>
<td>or ANSC 107</td>
<td>Introduction to Equine Science and the Equine Industry</td>
<td>2</td>
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Select 3-4 credits of the following:

- ANSC 300 Integrated Animal Biology
- ANSC 301 Principles of Animal Nutrition
- ANSC 317 Horse Handling and Training
- ANSC 322 Animal Genetics and Selection
- BA 250 Small Business Management
- KINES 180 Introduction to Kinesiology
- KINES 202 Functional Human Anatomy
- VBSC 403 Principles of Animal Disease Control

Select 3-4 credits of the following:

- AGRO 423 Forage Crop Management
- ANSC 419 Applied Animal Welfare
- ANSC 420 Animal Nutrition and Feed Technology
- ANSC 423 Comparative Physiology of Domestic Animals
- ANSC 431 Physiology of Animal Reproduction
- ANSC 437 Equine Facilitated Therapy
- ANSC 457 Equine Reproduction and Breeding Farm Management
- ANSC 467 Equine Nutrition and Feeding

Equine Science, Minor

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 need to plan the chosen program of study, and referrals to other specialized resources.

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

University Park
Ann L. Macrina
Associate Teaching Professor
316 Henning Building
University Park, PA 16802
814-863-4202
alm106@psu.edu

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 (http://animalscience.psu.edu/graduateprograms)

**Contact**

**University Park**

DEPARTMENT OF ANIMAL SCIENCE  
324 Henning Building  
University Park, PA 16802  
814-983-3665  
AskDAS@psu.edu

http://animalscience.psu.edu