

Equine Science and Management

College of Agriculture
and School of Human
Environmental Sciences

The horse industry is a dynamic industry that encompasses not only the breeding, raising and training of horses but also the development of activities for the use of the horse in sports and recreation. The industry has a significant economic impact across the U.S. and world-wide.

Equine science and management involves the study and application of science and business concepts to the horse industry. Additional course work supports learning in areas that aid in breeding and raising horses and marketing the industry. Students come from varied equine backgrounds but have a common interest in the horse. Regardless of which breed of horse or activity focus students have, equine science and management majors will have the opportunity to combine their interest in the horse with a desire to become active participants in the horse industry by selecting either the equine science option or the equine management option.

The equine science option is for students who have a primary interest in horse production. The equine management option is designed for students who are interested in the business aspect of the horse industry. Students in equine science and management considering a career in veterinary medicine or graduate research can meet those goals in the degree program as well. Interested students need to consult with an advisor to ensure all specific academic requirements are met.

Career Opportunities

The horse industry is continually changing. Equine science and management graduates are needed in all aspects of the industry including production, business management and other related support industries.

Graduation Requirements

To earn the Bachelor of Science in Equine Science and Management, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point average. A minimum of 45 credit hours must be from upper division courses (300 level and above). Remedial courses may **not** be counted toward the total hours required for the degree.

Plan of Study

As an equine science and management major you are required to develop an acceptable **Plan of Study** during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of the Associate Dean for Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Students must complete the following:

College Required Hours

*GEN 100 Issues in Agriculture	3
Subtotal: College Required Hours	3

**Except for students who enter the College after having already completed the U.S. Citizenship requirement of the UK Core.*

UK Core Requirements

See the *UK Core* section of the 2011-2012 *Undergraduate Bulletin* at: www.uky.edu/Registrar/bulletinCurrent/ukc.pdf for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list 3

II. Intellectual Inquiry in the Humanities

Choose one course from approved list 3

III. Intellectual Inquiry in the Social Sciences

Choose one course from approved list 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

*CHE 105 General College Chemistry I 3

*CHE 111 Laboratory to Accompany General Chemistry I 1

V. Composition and Communication I

CIS/WRD 110 Composition and Communication I 3

VI. Composition and Communication II

CIS/WRD 111 Composition and Communication II 3

VII. Quantitative Foundations

MA 123 Elementary Calculus and Its Applications

or

MA 113 Calculus I 3-4

VIII. Statistical Inferential Reasoning

STA 210 Making Sense of Uncertainty:

An Introduction to Statistical Reasoning 3

IX. Community, Culture and Citizenship in the USA

GEN 100 Issues in Agriculture 3

X. Global Dynamics

Choose one course from approved list 3

UK Core Hours 30-32

**CHE 105/111 are part of the premajor requirement for Option A: Equine Science. Students pursuing Option B: Equine Management should choose from the approved list of courses to fulfill this area.*

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Option A: Equine Science

Premajor Requirements

BIO 150 Principles of Biology I	3
BIO 152 Principles of Biology II	3
CHE 105 General College Chemistry I	3
CHE 107 General College Chemistry II	3
CHE 111 Laboratory to Accompany General Chemistry I	1
CHE 113 Laboratory to Accompany General Chemistry II	2
ECO 201 Principles of Economics I	3
MA 123 Elementary Calculus and Its Applications	
or	
MA 113 Calculus I	3-4
Subtotal: Premajor Hours	21-22

Major Requirements

ASC 101 Domestic Animal Biology	3
EQM 101 Introduction to the Horse and the Horse Industry	2
EQM 105 Equine Behavior and Handling	2
ASC 310 Equine Anatomy and Conformation	2
ASC 320 Equine Management	3
EQM 351 Equine Health and Diseases	3
EQM 399 Equine Science and Management Internship	3
ASC 410G Equine Science	3
EQM 490 Capstone in Equine Science and Management	3
AEC 302 Agricultural Management Principles	4
Subtotal: Major Hours	28

Option A Hours

CHE 236 Survey of Organic Chemistry	3
ASC 325 Animal Physiology	3
ASC 364 Reproductive Physiology of Farm Animals	4
ASC 378 Animal Nutrition and Feeding	4
PLS 366 Fundamentals of Soil Science	4
PLS 510 Forage Management and Utilization	3
Subtotal: Option A Hours	21

Specialty Support Requirement

The student will choose, in consultation with an advisor, at least 18 hours of courses at the 200 level or above that will strengthen the program in an area of importance to the student. To aid in developing this area of study, a list of suggested courses is available to advisors. The list includes courses in animal sciences, plant and soil sciences, biosystems and agricultural engineering, agricultural economics plus other areas of study at UK.

Subtotal: Option A Specialty Support 18

Electives

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation

Subtotal: Electives minimum of 4

Total Minimum Hours for Program 120

Option B: Equine Management

Premajor Requirements

BIO 150 Principles of Biology I	3
BIO 152 Principles of Biology II	3
*CHE 104 Introductory General Chemistry	3
*CHE 106 Introduction to Inorganic, Organic and Biochemistry	4
ECO 201 Principles of Economics I	3
MA 123 Elementary Calculus and Its Applications	
or	
MA 113 Calculus I	3-4
Subtotal: Premajor Hours	19-20

**This sequence of chemistry courses will not satisfy requirements for admission to Veterinary School. Consult your advisor for more details.*

Major Requirements

ASC 101 Domestic Animal Biology	3
EQM 101 Introduction to the Horse and the Horse Industry	2
EQM 105 Equine Behavior and Handling	2
ASC 310 Equine Anatomy and Conformation	2
ASC 320 Equine Management	3
EQM 351 Equine Health and Diseases	3
EQM 399 Equine Science and Management Internship	3
ASC 410G Equine Science	3
EQM 490 Capstone in Equine Science and Management	3
AEC 302 Agricultural Management Principles	4
Subtotal: Major Hours	28

Option B Hours

STA 291 Statistical Methods	3
ACC 201 Financial Accounting I	3
ECO 202 Principles of Economics II	3
MKT 300 Marketing Management	3
AEC 305 Food and Agricultural Marketing Principles	3
AEC 320 Agriculture Product Marketing and Sales	3
HMT 320 Hospitality and Tourism Marketing	3
Subtotal: Option B Hours	21

Specialty Support Requirement

The student will choose, in consultation with an advisor, at least 18 hours of courses at the 200 level or above that will strengthen the program in an area of importance to the student. To aid in developing this area of study, a list of suggested courses is available to advisors. The list includes courses in animal sciences, plant and soil sciences, biosystems and agricultural engineering, agricultural economics plus other areas of study at UK.

Subtotal: Option B Specialty Support 18

Electives

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation

Subtotal: Electives minimum of 4

Total Minimum Hours for Program 120