

Equine Science and Management

College of Agriculture, Food and Environment

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.

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.

Students must complete the following:

UK Core Requirements

See the *UK Core* section of the *2016-2017 Undergraduate Bulletin* 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

Choose course(s) from approved list 3-5

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

or

MA 137 Calculus I with Life Science Applications 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, Food and Environment 3

X. Global Dynamics

Choose one course from approved list 3

UK Core hours **30-32**

Graduation Composition and Communication Requirement (GCCR)

WRD 203 Business Writing

or

WRD 204 Technical Writing 3

Graduation Composition and Communication Requirement hours (GCCR)

..... 3

Premajor Requirements

BIO 148 Introductory Biology I 3

BIO 152 Principles of Biology II 3

CHE 105 General College Chemistry I

CHE 107 General College Chemistry II

CHE 111 Laboratory to Accompany General Chemistry I

CHE 113 Laboratory to Accompany General Chemistry II 10

OR

CHE 104 Introductory General Chemistry

CHE 108 Introduction to Inorganic, Organic and

Biochemistry without Laboratory 6

OR

CHE 105 General College Chemistry I

CHE 108 Introduction to Inorganic, Organic and

Biochemistry without Laboratory 7

ECO 201 Principles of Economics I 3

MA 123 Elementary Calculus and Its Applications

or

MA 113 Calculus I 4

Subtotal: Premajor hours **19-23**

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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	2
ASC 320 Equine Management	3
EQM 351 Equine Health and Diseases	3
EQM 399 Equine Science and Management Internship	3
EQM 490 Capstone in Equine Science and Management	3
AEC 302 Agricultural Management Principles	4

Subtotal: Major hours **25**

Emphasis Areas

Students must have one emphasis area. In order to have an emphasis area, students must take 9 credits in one area. Students will then select 12 additional credits from any emphasis area:

Community Leadership and Development

Students who are interested in leadership roles in business, breed associations or non-profit equine organizations and cooperative extension should consider this area. They will enhance their communication skills and be required to take courses in community dynamics, leadership development, and agriculture communication.

CLD 100 Introduction to Community and Leadership Development	1
CLD 102 The Dynamics of Rural Social Life	3
CLD 225 Community and Communication: Exploring Their Intersections	3
CLD 230 Intrapersonal Leadership	3
CLD 260 Community Portraits	3
CLD 401 Principles of Cooperative Extension	3
EQM 300 Topics in Equine Science and Management	1-6

Equine Business

Students will learn skills related to marketing, operations, and management of equine businesses. This will prepare students for careers as farm managers as well as business managers for equine enterprises, breed associations, and sales associates. This area also introduces them to the diversity of the equine industry through courses in equine law, sales, careers, event planning, marketing, and human resources.

*AEC 300 Special Topics in Agricultural Economics (Subtitle required)	3
AEC 305 Food and Agricultural Marketing Principles	3
AEC 320 Agricultural Product Marketing and Sales or	
MKT 300 Marketing Management	3
AEC 324 Agricultural Law	3
AEC 325 Equine Law	3
AEC 340 Human Resource Management in Agriculture	3
EQM 106 Introduction to Careers in the Equine Industry	1
EQM 205 Equine Career Preparation	1
EQM 300 Topics in Equine Science and Management	1-6
EQM 301 Thoroughbred Sales	1
EQM 302 Equine Event Planning	1

Equine Science

This area will provide the students with a strong background in basic sciences which will prepare them for graduate school or careers such as laboratory research assistants, breeding technicians, pharmaceutical sales representatives, and technical representatives for the feed industry.

ASC 311 Advanced Equine Evaluation	1
ASC 325 Animal Physiology	3
ASC 362 Animal Breeding and Genetics	4
ASC 364 Reproductive Physiology of Farm Animals	4
ASC 378 Animal Nutrition and Feeding	4
ASC 389 Advanced Equine Nutrition and Feeding	2
ASC 410G Equine Science	3
EQM 300 Topics in Equine Science and Management	1-6
VS 307 Genetics of Horses	3
VS 500 Advanced Equine Reproduction	3

Forage/Pasture

Students will obtain knowledge in agronomic practices focusing on pasture and forage management. This area will prepare students for careers related to general horse farm management or graduate school. These students will take courses in soil composition and fertility, forages, weed identification and control, and pest management.

EQM 300 Topics in Equine Science and Management	1-6
PLS 366 Fundamentals of Soil Science	4
PLS 404 Integrated Weed Management	4
PLS 468G Soil Use and Management	3
PLS 470G Soil Nutrient Management	3
PLS 510 Forage Management and Utilization	3
PLS 531 Field Schools in Crop Pest Management	2

Subtotal: Emphasis hours **21**

**When offered under a subtitle with a focus on equine marketing.*

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 from your advisor. The list includes courses in agricultural economics, animal sciences, community and leadership development, marketing, management, finance, plant and soil sciences plus other areas of study at UK.

Subtotal: 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 6**

Total Minimum Hours for Program **120**