UNIVERSITY OF KENTUCKY

Veterinary Science
College of Agriculture
GLUCK EQUINE RESEARCH CENTER
Lexington, KY 40546-0099
(859) 257-4757
www.uky.edu
Fax (859) 257-8542
Writer's Direct Dial Number

September 13, 2013

Dear Dr. Larry Grabau,

On behalf of the UK Ag Equine Programs steering committee, I am attaching a proposed comprehensive curriculum revision. Enclosed are revised undergraduate program change form and appendix with additional material related to the Equine Science and Management curriculum.

The main reason for the changes is to provide students with the opportunity to choose from four emphasis areas instead of the two current options. This proposed curriculum continues to provide students with strong horsemanship skills and knowledge of equine science and management, but allows the student to design a curriculum that meets their specific interest which in return will increase their job opportunities. The four emphasis areas more clearly highlight the breadth of the ESMA degree and provide a template for adding new courses in these emphasis areas that are easily identified. Lastly, these changes provide more opportunities for bringing in outside speakers from the local horse industry and will allow students to be more involved in the unique equine events in central Kentucky. This revision will create a truly novel equine program that capitalizes on the intellectual resources and physical resources in central Kentucky.

As shown in the undergraduate program change form, the number of pre-major requirements has been reduced from 19-23 to 16-20 with the elimination of BIO 150 (now BIO 148) from the ESMA program. The reduction in the Biology requirement was based on the fact students take ASC 101 which provides a strong whole animal biology background. The committee felt that the combination of BIO 152 and ASC 101 would prepare the students for other courses within the program. The number of major credit requirements has been reduced from 28 to 25. We moved ASC 410G from a required course to an elective in the science emphasis area. Options A (Equine Science) and B (Equine Management) have been eliminated. These options have been replaced by four emphasis areas that provide the same 21 credits. These areas are: Science, Business, Community Leadership and Development and Forage/Pasture. Students must take up to 21 credits in these emphasis areas; in order to complete an emphasis area they must have nine credits in that area.

These changes have been supported by the steering committee, the Equine Program Council (faculty representatives from all departments with courses in the ESMA degree, Department Chairs of all the appropriate Departments) and an External Dean's review committee of horsemen, industry leaders, and veterinarians.

Thank you for your consideration. If you have questions, please feel free to contact me.

Sincerely,

Edward L Squires

Edward L. Squires
Director, University of Kentucky Ag Equine Programs
Executive Director, University of Kentucky Gluck Equine Research Foundation

CHANGE UNDERGRADUATE PROGRAM FORM

1. General Information

College:	Agriculture	Department:	UK Ag Equine Programs
Current Major Name:	Equine Science and Management	*Proposed Major Name:*	*no change*
Current Degree Title:	BS Equine Science and Management	*Proposed Degree Title:*	*no Change*
Formal Option(s):	A&B	*Proposed Formal Option(s):*	*4 emphasis areas*
Specialty Field w/in Formal Option:	N/A	*Proposed Specialty Field w/in Formal Options:*	_____
Date of Contact with Associate Provost for Academic Administration[1]:	1-3-13		
Bulletin (yr & pgs):	2012-13 pp102-103	CIP Code[1]:	010307
Today's Date:	May 14, 2013		
Accrediting Agency (if applicable):	N/A		
Requested Effective Date:	☒ Semester following approval.	OR	☐ Specific Date[2]: _____
Dept. Contact Person:	Edward Squires	Phone:	218-1176
Email:	Edward.squires@uky.edu		

2. General Education Curriculum for this Program:

The new General Education curriculum is comprised of the equivalent of 30 credit hours of course work. There are, however, some courses that exceed 3 credits & this would result in more than 30 credits in some majors.

- There is no foreign language requirement for the new Gen Ed curriculum.
- There is no General Education Electives requirement.

Please list the courses/credit hours currently used to fulfill the University Studies/General Education curriculum:
_____

Please identify below the suggested courses/credit hours to fulfill the General Education curriculum.

General Education Area		**Course**	**Credit Hrs**
I. Intellectual Inquiry (one course in each area)			
Arts and Creativity		*no suggested course*	*3*
Humanities		*no suggested course*	*3*
Social Sciences		*no suggested course*	*3*
Natural/Physical/Mathematical		*no suggested course*	*3*
II. Composition and Communication			
Composition and Communication I		CIS or WRD 110	3

[1] Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the (APAA) can provide you with that during the contact.

[2] Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

	Composition and Communication II		CIS or WRD 111	3
III. Quantitative Reasoning (one course in each area)				
	Quantitative Foundations[3]		*MA 123 or MA 113 MA 137*	*4*
	Statistical Inferential Reasoning		*STA 210*	*3*
IV. Citizenship (one course in each area)				
	Community, Culture and Citizenship in the USA		*GEN 100*	*3*
	Global Dynamics		*no suggested course*	3
			Total General Education Hours	*31*

3. Explain whether the proposed changes to the program (as described in sections 4 to 12) involve courses offered by another department/program. Routing Signature Log must include approval by faculty of additional department(s).

ESMA is an interdisciplinary degree with multiple courses from other departments.These include Animal and Food Science,Agriculture Economics,Plant and Soil Science,Community Leadership and Development and Veterinary Science

4. Explain how satisfaction of the University Graduation Writing Requirement will be changed.

Current		*Proposed*	
☐ Standard University course offering. List: _____		☒ *Standard University course offering. List:* _____	
☒ Specific course – list:	WRD 203	☐ *Specific course) – list:*	_____

5. List any changes to college-level requirements that must be satisfied.

Current		*Proposed*	
☒ Standard college requirement. List: GEN 100		☒ *Standard college requirement. List: GEN 100*	
☐ Specific required course – list:	_____	☐ *Specific course – list:*	_____

6. List pre-major or pre-professional course requirements that will change, including credit hours.

Current	*Proposed*
BIO 148/150,3 credits	*BIO 152 , 3 credits*
BIO 152 ,3 credits	*CHE 105 , 4 credits*
CHE 105 ,4 credits	*CHE 107 ,3 credits*
CHE 107 , 3 credits	*CHE 111,1 credit*
CHE 111,1 credits	*CHE 113, 2 credits*
CHE ,113,2 credits	*or*
or	*CHE 104,3 credits*
CHE 104, 3 credits	*CHE 108, 3 credits*
CHE 106, 4 credits	*ECO 201 ,3 credits*
ECO 201, 3 credits	*MA 123,4 credits*
MA 123,4 credits	*or*

[3] Note that MA 109 is NOT approved as a Quantitative Foundations course. Students in a major requiring calculus will use a calculus course (MA 113, 123, 137 or 138) while students not requiring calculus should take MA 111, PHI 120 or another approved course.

or MA 113,4 credits Total 19-23 credits	*MA 113,4 credits or MA 137 4 credits* *Total -16-20*

7. List the major's course requirements that will change, including credit hours.

Current	*Proposed*
ASC 101 Animal Biology 3 credits EQM 101 Introduction to the Horse and the Horse Industry 2 credits EQM 105 Equine Behavior and Handling 2 credits ASC 310 Equine Anatomy - 2 credits ASC 320 Equine Management 3 credits EQM 351 Equine Health and Diseases 3 credits EQM 399 Equine Science and Management Internship 3 credits ASC 410G Equine Science- 3 credits EQM 490 Capstone in Equine Science and Management 3 credits AEC 302 Agricultural Management Principles 4 credits Total 28 credits	*ASC 101 Animal Biology 3 credits* *EQM 101 Introduction to the Horse and the Horse Industry 2 credits* *EQM 105 Equine Behavior and Handling 2 credits* *ASC 310 Equine Anatomy - 2 credits* *ASC 320 Equine Management 3 credits* *EQM 351 Equine Health and Diseases 3 credits* *EQM 399 Equine Science and Management Internship 3 credits* *EQM 490 Capstone in Equine Science and Management 3 credits* *AEC 302 Agricultural Management Principles 4 credits* *Total 25 credits*

8. Does the pgm require a minor AND does the proposed change affect the required minor? ☐ N/A ☐ Yes ☒ No

If "Yes," indicate current courses and proposed changes below.

Current	*Proposed*
_____	_____

9. Does the proposed change affect any option(s)? ☐ N/A ☒ Yes ☐ No

If "Yes," indicate current courses and proposed changes below, including credit hours, and also specialties and subspecialties, if any.

Current	*Proposed*
Option A CHE 236 Survey of Organic Chemistry 3 credits ASC 325 Animal Physiology 3 credits ASC 364 Reproductive Physiology of Farm Animals 4 credits ASC 378 Animal Nutrition and Feeding 4 credits PLS 366 Fundamentals of Soil Science 4 credits PLS 510 Forage Management and Utilization 3 credits Total 21 credits Option B STA 291-Statistical Methods 3 credits ACC 201-Financial Accounting I 3 credits ECO 202-Principals of Economics II 3 credits MKT 300-Marketing Management 3 credits AEC 305-Food and Agricultural Marketing Principles	*Students must have one emphasis area.In order to have an emphasis area students must take 9 credits in one area. Students can then select 12 additional credits from any emphasis areas:* *Emphasis: Community Leadership and Development:* *CLD 100 Introduction to Community and Leadership Development 1 credit* *CLD 102 The Dynamics of Rural Social Life 3 credits* *CLD 230 Interpersonal Leadership 3 credits* *CLD 225 Community and Communications: Exploring Their Intersection 3 credits* *CLD 260 Community Portriats 3 credits* *CLD 401 Principles of Cooperative Extension 3 credits*

3 credits AEC 320-Agriculture Product Marketing and Sales 3 credits HMT 320 Hospitality and Tourism Marketing 3 credits Total credits: 21 hours	*Emphasis: Equine Science* *ASC 311 Advanced Equine Evaluation 1 credit* *ASC 389 Equine Nutrition 2 credits* *ASC 410G Equine Science 3 credits* *VS 500 Advanced Equine Reproduction 3 credits* *VS 307 Genetics of Horses 3 credits* *ASC 378 Animal Nutrition and Feeding 4 credits* *ASC 325 Animal Physiology 3 credits* *ASC 364 Reproductive Physiology of Farm Animals 4 credits* *ASC 362 Animal Breeding 4 credits* *Emphasis: Equine Business* *AEC 305 Food & Agricultural Marketing Principles 3 credits* *AEC 320 Ag Product Marketing & Sales 3 credits* *or MKT 300 Marketing Management 3 credits* *AEC 300 Special Topics in Agricultural Economics Equine Marketing 3 credits* *AEC 340 Human Resource Management in Agriculture 3 credits* *EQM 106 Introduction to Equine Careers 1 credit* *EQM 205 Equine Career Preparation 1 credit* *EQM 301 Thoroughbred Sales 1 credit* *EQM 302 Equine Event Planning 1 credit* *AEC 324 Ag Law 3 credits* *AEC 325 Equine Law 3 credits* *Emphasis: Forage/Pasture* *PLS 366 Fundamentals of Soil Science 4 credits* *PLS 510 Forage Management and Utilization 3 credits* *PLS 404 Integrated Weed Management 4 credits* *PLS 468G Soil Use and Management 3 credits* *PLS 470G Soil Nutrient Management 3 credits* *PLS 531 Field Schools in Crop Pest Management 2 credits*

10. Does the change affect pgm requirements for number of credit hrs outside the major subject in a related field? ☐ Yes ☒ No

If so, indicate current courses and proposed changes below.

Current	*Proposed*
_____	_____

11. Does the change affect pgm requirements for technical or professional support electives? ☐ Yes ☒ No

If so, indicate current courses and proposed changes below.

Current	*Proposed*
_____	_____

12. Does the change affect a minimum number of free credit hours or support electives? ☒ Yes ☐ No

If "Yes," indicate current courses and proposed changes below.

Current	*Proposed*
4	*6*

13. Summary of changes in required credit hours:

		Current	*Proposed*
a. Credit Hours of Premajor or Preprofessional Courses:		19-23	*16-20*
b. Credit Hours of Major's Requirements:		28	*25*
c. Credit Hours for Required Minor:		0	*0*
d. Credit Hours Needed for a Specific Option:		21	*21*
e. Credit Hours Outside of Major Subject in Related Field:		0	*0*
f. Credit Hours in Technical or Professional Support Electives:		18	*18*
g. Minimum Credit Hours of Free/Supportive Electives:		4	*6*
h. Total Credit Hours Required by Level:	100:	33-36	*29-33*
	200:	9-15	*6*
	300:	27-39	*15-42*
	400-500:	6-18	*3-30*
i. Total Credit Hours Required for Graduation:		120	*120*

14. Rationale for Change(s) – if rationale involves accreditation requirements, please include specific references to that.

We are proposing to change the major such that students are able to design a curriculum that best fits the interest of the student and enhances their opportunity for careers in the Horse Industry. We have also provided a template to add new courses that utilizes some of the expertise in the horse industry.We have proposed going from 2 options to 4 emphasis areas .Students must have one emphasis area and must take 9 credits in that area.An additional 12 credits may be take in any of the other emphasis areas.

15. List below the typical semester by semester program for the major. If multiple options are available, attach a separate sheet for each option.

YEAR 1 – FALL: **(e.g. "BIO 103; 3 credits")**	See attached sheet.	**YEAR 1 – SPRING:**	_____
YEAR 2 - FALL :		**YEAR 2 – SPRING:**	_____
YEAR 3 - FALL:	_____	**YEAR 3 - SPRING:**	_____
YEAR 4 - FALL:	_____	**YEAR 4 - SPRING:**	

Signature Routing Log

General Information:

Current Degree Title and Major Name: Equine Science and Management

Proposal Contact Person Name: Edward Squires Phone: 218-1176 Email: Edward.squires@uky.edu

INSTRUCTIONS:
Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Equine Programs Steering Committee	2/13/13	Dr. Edward Squires / 218-1176 / Edward.squires@uky.edu	
Undergraduate Curriculum Committee, CAFE	9/13/2013	Larry Grabau / 257-3469 / Larry.Grabau@uky.edu	
		/ /	
		/ /	
		/ /	

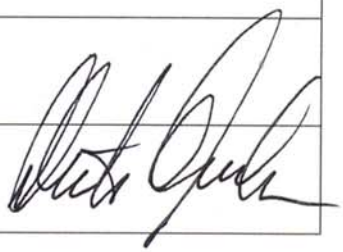
External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[4]
Undergraduate Council	4/1/14	Joanie Ett-Mims	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

[4] Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

Internal College Approvals and Course Cross-Listing Approvals (Continued)

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Animal and Food Sciences Department			
Plant and Soil Sciences Department			
Community, Leadership, and Development Department			
Agriculture Economics Department			
Veterinary Science Department	08/05/13	Mats H.T. Troedsson 859-218-1085 M.Troedsson@uky.edu	

Internal College Approvals and Course Cross-Listing Approvals (Continued)

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Animal and Food Sciences Department			
Plant and Soil Sciences Department	6·13·13	Todd Pfeiffen 218·0709 tpfeiffe@uky.edu	Todd Pfeiffer
Community, Leadership, and Development Department			
Agriculture Economics Department			
Veterinary Science Department			

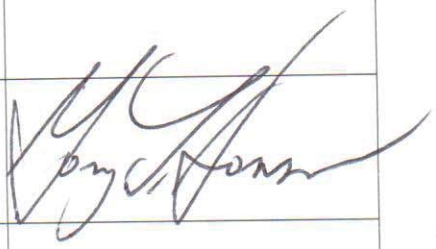
Internal College Approvals and Course Cross-Listing Approvals (Continued)

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Animal and Food Sciences Department			
Plant and Soil Sciences Department			
Community, Leadership, and Development Department			
Agriculture Economics Department	6/17/13	Leigh Maynard 7-5762 leigh.maynard@uky.edu	lmaynard@uky.edu Digitally signed by lmaynard@uky.edu DN: cn=lmaynard@uky.edu Date: 2013.06.17 08:09:50 -04'00'
Veterinary Science Department			

Internal College Approvals and Course Cross-Listing Approvals (Continued)

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Animal and Food Sciences Department	05-07-2013	Robert J. Harmon/7-2686/ rharmon@uky.edu	Robert J Harmon
Plant and Soil Sciences Department			
Community, Leadership, and Development Department			
Agriculture Economics Department			
Veterinary Science Department			

Internal College Approvals and Course Cross-Listing Approvals (Continued)

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Animal and Food Sciences Department			
Plant and Soil Sciences Department			
Community, Leadership, and Development Department	6/14/13	Gary L. Hansen Chair Community leadership and Development	
Agriculture Economics Department			
Veterinary Science Department			

Equine Science and Management

The horse industry is a dynamic industry that encompasses not only the breeding, raising and training of horses but also all the supporting industries that provide services to the horse industry such as the feed, pharmaceutical ,veterinary, horse supplies and tourism just to mention a few.Todays equine students must not only have good horsemanship skills, but also have a basic knowledge of business and be able to communicate .The University of Kentucky`s Equine Science and Management Program is strategically located in the heart of horse country where one has access to the premier sales and training facilities as well as horse show and event facilities. All students are required to take 25 credits in the major which provides a strong background in equine science, management, and business. They can then select courses in one of four emphasis areas: Business, Community Leadership and Development, Equine Science, and Forage/Pasture. This allows the student to customize their Equine Science and Management degree by taking courses in one or several emphasis areas.

Career opportunities

Students are able to find jobs as breeding and farm managers, trainers, veterinary assistants, feed representatives, breed association employees, veterinary medicine, research scientists, pharmaceutical representatives, non-profit equine organizations, and 4 H and agriculture county extension agents.

Graduation Requirements

To earn the Bachelor of Science in Equine Science and Management the students must have a minimum of 120 credits with at least a 2.0 grade point average. A minimum of 45 credits must be from the upper division courses (300 level or 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 the 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.

College Required Hours

*GEN 100 Issues in Agriculture – 3 credits

Subtotal : college required hours – 3 credits

UK Core Requirements

See the *UK Core* section of this 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 one course from approved list 3

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 (Life Sciences)…..…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 31

Pre- Major Requirements

BIO 152 –Principles of Biology -3

CHE 105/111 General College Chemistry I and Lab-5

CHE 107/113 General College Chemistry II and Lab-5

Or

CHE 104 Introduction General Chemistry-3

CHE 108-Introduction to inorganic,Organic and Biochemistry – 3

ECO 201 – Principles of Economics I – 3

MA -123 Elementary Calculus I - 4

Or

MA 113 Calculus I – 4

Or

MA 137 Calculus I (Life Sciences) - 4

Subtotal 16-20 credits

Major Requirements

ASC 101 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 Agriculture Management Principles -4

Subtotal 25 credits

Students must have one emphasis area. In order to have an emphasis area students must take 9 credits in one area . Students must select 12 additional credits from any of the emphasis areas.

Emphasis Areas

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 389	Equine Nutrition -2 credits
ASC 410G	Equine Science-3 credits
VS 500	Advanced Equine Reproduction-3 credits
VS 307	Genetics of the Horse-3 credits
ASC 378	Animal Nutrition and Feeding -4 credits
ASC 364	Reproductive Physiology of Farm Animals -4 credits
ASC 325	Animal Physiology – 3credits
ASC 362	Animal Breeding- 4 credits

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 305	Food & Agricultural Marketing Principles- 3 credits
AEC 320	Agriculture Product Marketing & Sales - 3 credits
or MKT 300	Marketing Management- 3 credits
AEC 300	Special Topics in Agricultural Economics – Equine Marketing- 3 credits
AEC 340	Human Resource Management in Agricultural - 3 credits

EQM 106 Introduction to Equine Careers - 1 credit

EQM 205 Equine Career Preparation - 1 credit

EQM 301 Thoroughbred Sales - 1 credit

EQM 302 Equine Event Planning 1 credit

AEC 325 Equine Law- 3 credits

AEC 324 Ag Law - 3 credits

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 credit

CLD 102 The Dynamics of Rural Social Life – 3 credits

CLD 225 Community and Communications: Exploring Their Intersection- 3 credits

CLD 230 Interpersonal Leadership -3 credits

CLD 260 Community Portraits – 3 credits

CLD 401 Principles of Cooperative Extension -3 credits

Forages/Pastures

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.

PLS 366 Fundamentals of Soil Science – 4 credits

PLS 510 Forage Management and Utilization – 3 credits

PLS 404 Integrated Weed Management -4 credits

PLS 468G Soil Use and Management – 3 credits

PLS 470G Soil Nutrient Management – 3 credits

PLS 531 Field Schools in Crop Pest Management – 2 credits

Equine Science and Management Example Plan of Study
Emphasis Area – Equine Science

Year 1		Year 2		Year 3		Year 4	
1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course /(Hrs.)	1st semester Course /(Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)
ASC 101 Domestic Animal Biology (3)	EQM 105 Equine Behavior and Handling (2)	ASC 320 Equine Management (3)	ASC 310 Equine Anatomy (2)	Equine Science Emphasis Area Course (3)*	EQM 351 Equine Health and Diseases (3)	AEC 302 Agricultural Management Principles (4)	EQM 490 Capstone in Equine Science & Management (3)
EQM 101 Intro. to the Horse & Horse Industry (2)	CHE 107 General Chemistry II (3)	CIS/WRD 111 Com. & Comp II (3)	Specialty Support Elective (3)	Equine Science Emphasis Area Course (3)*	Equine Science Emphasis Area Course (3)*	Specialty Support Elective (3)	Specialty Support Elective (3)
GEN 100 Issues in Agriculture (3)	CHE 113 General Chemistry II Lab (2)	STA 210 Intro. to Statistical Reasoning (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	EQM 399 ESMA Internship (3)	Specialty Support Elective (3)	Free Elective (3)
CHE 105 General Chemistry I (4)	CIS/WRD 110 Com. & Comp. I (3)	BIO 152 Principles of Biology (3)	Free Elective (3)	Specialty Support Elective (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	Specialty Support Course (3)
CHE 111 General Chemistry I Lab (1)	ECO 201 Principles of Economics I (3)	UK Core Humanities Course (3)	UK Core Global Dynamics Course (3)	UK Core Social Sciences Course(3)	Graduation Writing Req. Course (3)	Specialty Support Elective (3)	
MA 123, 113, or 137 Calculus (4)	UK Core-Arts & Creativity Course (3)						
Total hrs 17	**16**	**15**	**14**	**15**	**15**	**16**	**12**

*These courses will meet the 9 credit hour requirement for the area of emphasis.

** These courses will meet the 12 credit hour requirement to complete the 21 credit hour total for the area of emphasis.

Equine Science and Management Example Plan of Study
Emphasis Area – Business

Year 1		Year 2		Year 3		Year 4	
1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course /(Hrs.)	1st semester Course /(Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)
ASC 101 Domestic Animal Biology (3)	EQM 105 Equine Behavior and Handling (2)	ASC 320 Equine Management (3)	ASC 310 Equine Anatomy (2)	Business Emphasis Area Course (3)*	EQM 351 Equine Health and Diseases (3)	AEC 302 Agricultural Management Principles (4)	EQM 490 Capstone in Equine Science and Management (3)
EQM 101 Intro. to the Horse & Horse Industry (2)	CHE 108 Intro. of Inorganic, Organic, and Biochem. (3)	CIS/WRD 111 Com. & Comp II (3)	Specialty Support Elective (3)	Business Emphasis Area Course (3)*	Business Emphasis Area Course (3)*	Specialty Support Elective (3)	Specialty Support Elective (3)
GEN 100 Issues in Agriculture (3)	CIS/WRD 110 Com. & Comp. I (3)	STA 210 Intro. to Statistical Reasoning (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	EQM 399 ESMA Internship (3)	Specialty Support Elective (3)	Specialty Support Course (3)
CHE 104 Intro. to General Chem. (3)	ECO 201 Principles of Economics I (3)	BIO 152 Principles of Biology (3)	Natural, Physical & Mathematical Sciences (3)	Specialty Support Elective (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	Free Elective (3)
MA 123, 113, or 137 Calculus (4)	UK Core-Arts & Creativity Course (3)	UK Core Humanities Course (3)	UK Core Global Dynamics Course (3)	UK Core Social Sciences Course(3)	Graduation Writing Req. Course (3)	Specialty Support Elective (3)	Free Elective (4)
Total hrs 15	**14**	**15**	**14**	**15**	**15**	**16**	**16**

*These courses will meet the 9 credit hour requirement for the area of emphasis.

** These courses will meet the 12 credit hour requirement to complete the 21 credit hour total for the area of emphasis.

Equine Science and Management Example Plan of Study
Emphasis Area – Community Leadership and Development (CLD)

Year 1		Year 2		Year 3		Year 4	
1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course /(Hrs.)	1st semester Course /(Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)
ASC 101 Domestic Animal Biology (3)	EQM 105 Equine Behavior and Handling (2)	ASC 320 Equine Management (3)	ASC 310 Equine Anatomy (2)	CLD Emphasis Area Course (3)*	EQM 351 Equine Health and Diseases (3)	AEC 302 Agricultural Management Principles (4)	EQM 490 Capstone in Equine Science and Management (3)
EQM 101 Intro. to the Horse & Horse Industry (2)	CHE 108 Intro. of Inorganic, Organic, and Biochem. (3)	CIS/WRD 111 Com. & Comp II (3)	Specialty Support Elective (3)	CLD Emphasis Area Course (3)*	CLD Emphasis Area Course (3)*	Specialty Support Elective (3)	Specialty Support Elective (3)
GEN 100 Issues in Agriculture (3)	CIS/WRD 110 Com. & Comp. I (3)	STA 210 Intro. to Statistical Reasoning (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	EQM 399 ESMA Internship (3)	Specialty Support Elective (3)	Specialty Support Course (3)
CHE 104 Intro. to General Chem. (3)	ECO 201 Principles of Economics I (3)	BIO 152 Principles of Biology (3)	Natural, Physical & Mathematical Sciences (3)	Specialty Support Elective (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	Free Elective (4)
MA 123, 113, or 137 Calculus (4)	UK Core-Arts & Creativity Course (3)	UK Core Humanities Course (3)	UK Core Global Dynamics Course (3)	UK Core Social Sciences Course(3)	Graduation Writing Req. Course (3)	Specialty Support Elective (3)	Free Elective (3)
Total hrs 15	**14**	**15**	**14**	**15**	**15**	**16**	**16**

*These courses will meet the 9 credit hour requirement for the area of emphasis.

** These courses will meet the 12 credit hour requirement to complete the 21 credit hour total for the area of emphasis.

Equine Science and Management Example Plan of Study
Emphasis Area – Forages/Pasture Management

Year 1		Year 2		Year 3		Year 4	
1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course /(Hrs.)	1st semester Course /(Hrs.)	2nd semester Course / (Hrs.)	1st semester Course / (Hrs.)	2nd semester Course / (Hrs.)
ASC 101 Domestic Animal Biology (3)	EQM 105 Equine Behavior and Handling (2)	ASC 320 Equine Management (3)	ASC 310 Equine Anatomy (2)	Forages/ Pastures Emphasis Area Course (3)*	EQM 351 Equine Health and Diseases (3)	AEC 302 Agricultural Management Principles (4)	EQM 490 Capstone in Equine Science and Management (3)
EQM 101 Intro. to the Horse & Horse Industry (2)	CHE 107 General Chemistry II (3)	CIS/WRD 111 Com. & Comp II (3)	Specialty Support Elective (3)	Forages/ Pastures Emphasis Area Course (3)*	Forages/ Pastures Emphasis Area Course (3)*	Specialty Support Elective (3)	Specialty Support Elective (3)
GEN 100 Issues in Agriculture (3)	CHE 113 General Chemistry II Lab (2)	STA 210 Intro. to Statistical Reasoning (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	EQM 399 ESMA Internship (3)	Specialty Support Elective (3)	Free Elective (3)
CHE 105 General Chemistry I (4)	CIS/WRD 110 Com. & Comp. I (3)	BIO 152 Principles of Biology (3)	Free Elective (3)	Specialty Support Elective (3)	Additional Emphasis Area Course (3)**	Additional Emphasis Area Course (3)**	Specialty Support Course (3)
CHE 111 General Chemistry I Lab (1)	ECO 201 Principles of Economics I (3)	UK Core Humanities Course (3)	UK Core Global Dynamics Course (3)	UK Core Social Sciences Course(3)	Graduation Writing Req. Course (3)	Specialty Support Elective (3)	
MA 123, 113, or 137 Calculus (4)	UK Core-Arts & Creativity Course (3)						
Total hrs 17	**16**	**15**	**14**	**15**	**15**	**16**	**12**

*These courses will meet the 9 credit hour requirement for the area of emphasis.

** These courses will meet the 12 credit hour requirement to complete the 21 credit hour total for the area of emphasis.