

April 24, 2012

Animal & Food Sciences
907 W.P. Garrigus Building
Lexington, KY 40546-0215
859 257-2686
fax 859 257-2534
www.uky.edu

Dr. Larry Grabau
Associate Dean for Instruction
College of Agriculture
N-6 Ag Science North
Lexington, KY 40546-0091



Dear Dr. Grabau:

Please bring the following minor program and course changes to the college undergraduate curriculum committee for their consideration. The program change is to the Animal Sciences major. It consists of the substitution of BIO 148 for BIO 150 in the premajor requirement. As you know, the Department of Biology will soon stop offering BIO 150 and is now offering BIO 148 as the primary introductory biology course at this level. At the same time, we are updating the credit hour listings in Premajor Requirements and Specialty Support to reflect changes made by the Departments of Chemistry and Mathematics in the credit hours assigned for CHE 105, CHE 231, CHE 233 and MA 123.

We are also requesting minor changes in 14 courses offered under the ASC prefix. These are changes to the prerequisites listed for each course. For the most part, courses that are no longer offered are being replaced with appropriate alternatives. These changes are long overdue. In some cases, the current instructors have requested changes that better prepare the students for the course as it is now taught. A complete list of the changes and brief justification are included in the table that follows. All of the necessary program and course change forms are included as attachments.



These minor program and course changes were unanimously approved by the faculty in a faculty meeting on April 20, 2012.

Thank you in advance for considering these requests.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Harmon".

Dr. Robert J. Harmon
Chair, Animal and Food Sciences

CHANGE UNDERGRADUATE PROGRAM FORM

1. General Information

College: <u>College of Agriculture</u>		Department: <u>Animal and Food Sciences</u>	
Current Major Name: <u>Animal Science</u>		Proposed Major Name: _____	
Current Degree Title: <u>Bachelor's of Science</u>		Proposed Degree Title: _____	
Formal Option(s): <u>Animal Industry</u> <u>Food Industry</u> <u>Pre-Professional</u>		Proposed Formal Option(s): _____	
Specialty Field w/in Formal Option: <u>Animal Industry - No Specialization</u> <u>Animal Industry - Livestock Specialization</u> <u>Animal Industry - Equine Specialization</u> <u>Animal Industry - Dairy Specialization</u>		Proposed Specialty Field w/in Formal Options: _____	
Date of Contact with Associate Provost for Academic Administration ¹ : <u>3/7/2012</u>			
Bulletin (yr & pgs):	<u>2011-2012, 93-94</u>	CIP Code ¹ :	<u>01.0901</u> Today's Date: <u>4/19/2012</u>
Accrediting Agency (if applicable): _____			
Requested Effective Date: <input checked="" type="checkbox"/> Semester following approval. OR <input type="checkbox"/> Specific Date ² : _____			
Dept. Contact Person: <u>Ann Leed</u>		Phone: <u>257-2465</u>	Email: <u>ann.leed@uky.edu</u>

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	<u>From approved list</u>	<u>3</u>
Humanities	<u>From approved list</u>	<u>3</u>
Social Sciences	<u>From approved list</u>	<u>3</u>
Natural/Physical/Mathematical	<u>Satisfied by Pre-</u>	<u>5</u>

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.

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		<u>Major Requirements</u> <u>(CHE 105 & CHE 111)</u>	
II. Composition and Communication			
	Composition and Communication I	CIS or WRD 110	3
	Composition and Communication II	CIS or WRD 111	3
III. Quantitative Reasoning (one course in each area)			
	Quantitative Foundations ³	<u>MA 123, MA 113</u> <u>or MA 137</u>	<u>4</u>
	Statistical Inferential Reasoning	<u>STA 210)</u>	<u>3</u>
IV. Citizenship (one course in each area)			
	Community, Culture and Citizenship in the USA	<u>GEN 100</u>	<u>3</u>
	Global Dynamics	<u>From approved list</u>	<u>3</u>
Total General Education Hours			<u>33</u>

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).

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

Current	Proposed
<input type="checkbox"/> Standard University course offering. List: _____	<input type="checkbox"/> <i>Standard University course offering.</i> List: _____
<input type="checkbox"/> Specific course – list: _____	<input type="checkbox"/> <i>Specific course) – list: _____</i>

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

Current	Proposed
<input type="checkbox"/> Standard college requirement. List: _____	<input type="checkbox"/> <i>Standard college requirement.</i> List: _____
<input type="checkbox"/> Specific required course – list: _____	<input type="checkbox"/> <i>Specific course – list: _____</i>

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

Current	Proposed
BIO 150 3 credit hours	<u>BIO 148 3 credit hours</u>

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

Current	Proposed
_____	_____

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

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.

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

Current _____	<i>Proposed</i> _____
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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 _____	<i>Proposed</i> _____
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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 _____	<i>Proposed</i> _____
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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 _____	<i>Proposed</i> _____
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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 _____	<i>Proposed</i> _____
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13. Summary of changes in required credit hours:

	<i>Current</i>	<i>Proposed</i>
a. Credit Hours of Premajor or Preprofessional Courses:	<u>21-22</u>	<u>23</u>
b. Credit Hours of Major's Requirements:	<u>32-36</u>	<u>32-36</u>
c. Credit Hours for Required Minor:	<u>N/A</u>	<u>N/A</u>
d. Credit Hours Needed for a Specific Option:	<u>0-7</u>	<u>0-7</u>
e. Credit Hours Outside of Major Subject in Related Field:	<u>18-24</u>	<u>18-24</u>
f. Credit Hours in Technical or Professional Support Electives:	<u>N/A</u>	<u>N/A</u>
g. Minimum Credit Hours of Free/Supportive Electives:	<u>min. 19</u>	<u>min. 15</u>
h. Total Credit Hours Required by Level:		
	100:	<u>48-68</u>
	200:	<u>7-27</u>
	300:	<u>34-37</u>
	400-500:	<u>8-11</u>
i. Total Credit Hours Required for Graduation:	<u>120</u>	<u>120</u>

CHANGE UNDERGRADUATE PROGRAM FORM

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

The Biology department has stopped offering BIO 150 - Principles of Biology I and replaced that course with BIO 148 - Introductory Biology I. As BIO 150 was pre-major requirement for all Animal Science students, the change of courses needs to be reflected in the program of study.

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")	<u>See attached sheets</u>	YEAR 1 – SPRING:	_____
YEAR 2 - FALL :	_____	YEAR 2 – SPRING:	_____
YEAR 3 - FALL:	_____	YEAR 3 - SPRING:	_____
YEAR 4 - FALL:	_____	YEAR 4 - SPRING:	_____

CHANGE UNDERGRADUATE PROGRAM FORM

Signature Routing Log

General Information:

Current Degree Title and Major Name: Bachelor's of Science Animal Science

Proposal Contact Person Name: Ann Leed Phone: 257-2465 Email: ann.leed@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
Department of Animal and Food Science	April 20, 2012	Robert Harmon / 7-2686 / rharmon@uky.edu	
Undergraduate Curriculum Committee, COA	4/27/2012	Larry J. Grabau / 7-3469 / Larry.Grabau@uky.edu	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁴
Undergraduate Council	10/23/12	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.

UK Core Pre-Professional Option Plan of Study

Year 1

Course	Credit Hours
ASC 101a Domestic Animal Biology	3
CHE 105 General Chemistry I	4
CHE 111 General Chem I Lab	1
CIS/WRD 110 Composition I	3
GEN 100a Issues in Agriculture	3
MA 123, MA 113 or MA 137 Calculus	4
Total	18

Course	Credit Hours
ASC 102b Applications of Animal Science	3
CHE 107 General Chemistry II	3
CHE 113 General Chemistry II Lab	2
CIS/WRD 111 Composition II	3
UK Core Global Dynamics	3
UK Core Social Science	3
Total	17

Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 230 Organic Chem I	3
CHE 231 Organic Chem I Lab	1
UK Core Humanities	3
Free Elective	3
Total	14

Course	Credit Hours
BIO 152 Principles of Biology II	3
CHE 232 Organic Chem II	3
CHE 233 Organic Chem II Lab	1
STA 210 Intro to Stats	3
UK Core Creativity in the Arts	3
Free Elective	3
Total	16

Year 3

Course	Credit Hours
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
BIO 304 Genetics	4
PHY 211 Physics I	5
Total	16

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 378b Animal Reproduction	4
PHY 213 Physics II	5
Free Elective	3
Total	16

Year 4

Course	Credit Hours
ASC 470 Capstone in Animal	3
ASC Production Elective	2-4
ASC Production Elective	2-4
BCH 401G Biochemistry	3
Graduation Writing Req	3
Total	13-17

Course	Credit Hours
ASC Production Elective	2-4
Free Elective	3
Free Elective	3
Free Elective	3
Total	11-13

Production Electives	Semester Offered
ASC 340 Poultry Production	Spring
ASC 404G Sheep Science	Fall
ASC 406 Beef Cattle Science	Fall
ASC 408G Swine Science	Spring
ASC 410G Equine Science	Spring
ASC 420G Dairy Cattle Science	Fall

a = only offered during fall
 b = only offered during spring
 * = work closely with advisor on biology labs required

UK Core Animal Industry Option Dairy Specialization Plan of Study

Year 1

Course	Credit Hours
ASC 101a Domestic Animal Biology	3
CHE 105 General Chemistry I	4
CHE 111 General Chem I Lab	1
CIS/WRD 110 Composition I	3
GEN 100a Issues in Agriculture	3
MA 123/MA 113 or MA 137 Calculus	4
Total	18

Course	Credit Hours
ASC 102b Applications of Animal Science	3
CHE 107 General Chemistry II	3
CHE 113 General Chemistry II Lab	2
CIS/WRD 111 Composition II	3
UK Core Social Science	3
Total	14

Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 236 Survey Organic Chem	3
Humanities Elective	3
UK Core Global Dynamic	3
Specialty Support Elective	3
Total	16

Course	Credit Hours
BIO 152 Principles of Biology II	3
STA 210 Intro to Stats	3
UK Core Creativity in the Arts	3
Specialty Support Elective	3
Free Elective	3
Total	15

Year 3

Course	Credit Hours
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
Specialty Support Elective	3
Specialty Support Elective	3
Free Elective	3
Total	16

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 378b Animal Reproduction	4
Specialty Support Elective	3
Free Elective	3
Total	14

Year 4

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC 420G _a Dairy Science	4
Free Elective	3
Graduation Writing Req	3
Total	15-17

Course	Credit Hours
ASC Production Elective	2-4
ASC 564 _b Milk Secretion	3
Free Elective	3
Free Elective	3
Free Elective	3
Total	14-16

Production Electives	Semester Offered
ASC 340 Poultry Production	Spring
ASC 404G Sheep Science	Fall
ASC 406 Beef Cattle Science	Fall
ASC 408G Swine Science	Spring
ASC 410G Equine Science	Spring
ASC 420G Dairy Cattle Science	Fall

a = only offered during fall
 b = only offered during spring

UK Core Animal Industry Option Equine Specialization Plan of Study

Year 1

Course Credit Hours

ASC 101a Domestic Animal Biology	3
CHE 105 General Chemistry I	4
CHE 111 General Chem I Lab	1
CIS/WRD 110 Composition I	3
GEN 100a Issues in Agriculture	3
MA 123,MA 113 or MA 137 Calculus	4
Total	18

Course Credit Hours

ASC 102b Applications of Animal Science	3
CHE 107 General Chemistry II	3
CHE 113 General Chemistry II Lab	2
CIS/WRD 111 Composition II	3
UK Core Social Science	3
Total	14

Year 2

Course Credit Hours

ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 236 Survey Organic Chem	3
Humanities Elective	3
UK Core Global Dynamic	3
Specialty Support Elective	3
Total	16

Course Credit Hours

ASC 310b Equine Anatomy	2
BIO 152 Principles of Biology II	3
STA 210 Intro to Stats	3
UK Core Creativity in the Arts	3
Free Elective	3
Total	14

Year 3

Course Credit Hours

ASC 320 Equine Management	3
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
Specialty Support Elective	3
Specialty Support Elective	3
Total	16

Course Credit Hours

ASC 362b Animal Genetics	4
ASC 378b Animal Reproduction	4
Specialty Support Elective	3
Free Elective	3
Total	14

Year 4

Course Credit Hours

ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
Specialty Support Elective	3
Graduation Writing	3
Total	13-17

Course Credit Hours

ASC 410G Equine Science	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Total	15

Production Electives Semester Offered

ASC 340 Poultry Production	Spring
ASC 404G Sheep Science	Fall
ASC 406 Beef Cattle Science	Fall
ASC 408G Swine Science	Spring
ASC 410G Equine Science	Spring
ASC 420G Dairy Cattle Science	Fall

a = only offered during fall
b = only offered during spring

UK Core Animal Industry Livestock Specialization Plan of Study

Year 1

Course	Credit Hours
ASC 101a Domestic Animal Biology	3
CHE 105 General Chemistry I	4
CHE 111 General Chem I Lab	1
CIS/WRD 110 Composition I	3
GEN 100a Issues in Agriculture	3
MA 123, MA 113or MA 137 Calculus	4
Total	18

Course	Credit Hours
ASC 102b Applications of Animal Science	3
CHE 107 General Chemistry II	3
CHE 113 General Chemistry II Lab	2
CIS/WRD 111 Composition II	3
UK Core Social Science	3
Total	14

Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 236 Survey Organic Chem	3
UK Core Humanities	3
UK Core Global Dynamic	3
Specialty Support Elective	3
Total	16

Course	Credit Hours
BIO 152 Principles of Biology II	3
STA 210 Intro to Stats	3
UK Core Creativity in the Arts	3
Specialty Support Elective	3
Free Elective	3
Total	15

Year 3

Course	Credit Hours
ASC 300a Meat Science	4
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
Specialty Support Elective	3
Free Elective	3
Total	17

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 378b Animal Reproduction	4
Specialty Support Elective	3
Free Elective	3
Total	14

Year 4

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-5
Specialty Support Elective	3
Graduation Writing Req	3
Total	13-17

Course	Credit Hours
ASC Production Elective	2-4
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Total	14-16

Production Electives	Semester Offered
ASC 340 Poultry Production	Spring
ASC 404G Sheep Science	Fall
ASC 406 Beef Cattle Science	Fall
ASC 408G Swine Science	Spring
ASC 410G Equine Science	Spring
ASC 420G Dairy Cattle Science	Fall

a = only offered during fall
 b = only offered during spring

UK Core Animal Industry Option No Specialization Plan of Study

Year 1

Course	Credit Hours
ASC 101a Domestic Animal Biology	3
CHE 105 General Chemistry I	4
CHE 111 General Chem I Lab	1
CIS/WRD 110 Composition I	3
GEN 100a Issues in Agriculture	3
MA 123,MA 113or MA 137 Calculus	4
Total	18

Course	Credit Hours
ASC 102b Applications of Animal Science	3
CHE 107 General Chemistry II	3
CHE 113 General Chemistry II Lab	2
CIS/WRD 111 Composition II	3
UK Core Social Science	3
Total	14

Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 236 Survey Organic Chem	3
UK Core Humanities	3
UK Core Global Dynamic	3
Specialty Support Elective	3
Total	16

Course	Credit Hours
BIO 152 Principles of Biology II	3
STA 210 Intro to Stats	3
UK Core Creativity in the Arts	3
Specialty Support Elective	3
Free Elective	3
Total	15

Year 3

Course	Credit Hours
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
Specialty Support Elective	3
Free Elective	3
Free Elective	3
Total	16

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 378b Animal Reproduction	4
Specialty Support Elective	3
Free Elective	3
Total	14

Year 4

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
Specialty Support Elective	3
Graduation Writing Req	3
Total	13-17

Course	Credit Hours
ASC Production Elective	2-4
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Total	14-16

Production Electives	Semester Offered
ASC 340 Poultry Production	Spring
ASC 404G Sheep Science	Fall
ASC 406 Beef Cattle Science	Fall
ASC 408G Swine Science	Spring
ASC 410G Equine Science	Spring
ASC 420G Dairy Cattle Science	Fall

a = only offered during fall
 b = only offered during spring

UK Core Food Industry Option Plan of Study

Year 1

Course	Credit Hours
ASC 101a Domestic Animal Biology	3
CHE 105 General Chemistry I	4
CHE 111 General Chem I Lab	1
CIS/WRD 110 Composition I	3
GEN 100a Issues in Agriculture	3
MA 123,MA 113 or MA 137 Calculus	4
Total	18

Course	Credit Hours
ASC 102b Applications of Animal Science	3
CHE 107 General Chemistry II	3
CHE 113 General Chemistry II Lab	2
CIS/WRD 111 Composition II	3
UK Core Social Science	3
Total	14

Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 236 Survey of Organic Chem	3
STA 210 Intro to Stats	3
UK Core Humanities	3
Total	13

Course	Credit Hours
BIO 152 Principles of Biology II	3
FSC 107b Food Science	3
UK Core Creativity in the Arts	3
UK Core Global Dynamic	3
Specialty Support Elective	3
Total	15

Year 3

Course	Credit Hours
ASC 300a Meat Science	4
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
Specialty Support	3
Specialty Support	3
Total	16

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 378b Animal Reproduction	4
FSC 304b Animal Derived Foods	5
Specialty Support Elective	3
Total	16

Year 4

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
Free Elective	3
Graduation Writing Req	3
Total	13-17

Course	Credit Hours
ASC Production Elective	2-4
Specialty Support	3
Free Elective	3
Free Elective	3
Free Elective	3
Total	14-16

Production Electives	Semester Offered
ASC 340 Poultry Production	Spring
ASC 404G Sheep Science	Fall
ASC 406 Beef Cattle Science	Fall
ASC 408G Swine Science	Spring
ASC 410G Equine Science	Spring
ASC 420G Dairy Cattle Science	Fall

a = only offered during fall
b = only offered during spring