

# CHANGE UNDERGRADUATE PROGRAM FORM

## 1. General Information

College:	<u>College of Agriculture, Food &amp; Environment</u>	Department:	<u>Animal and Food Sciences</u>		
Current Major Name:	<u>Animal Sciences</u>	Proposed Major Name:	<u>No change</u>		
Current Degree Title:	<u>Bachelor of Science in Animal Sciences</u>	Proposed Degree Title:	<u>No change</u>		
Formal Option(s):	<u>Animal Industry Food Industry Pre-Professional</u>	Proposed Formal Option(s):	<u>No change</u>		
Specialty Field w/in Formal Option:	<u>Animal Industry - No Specialization Animal Industry - Livestock Specialization Animal Industry - Equine Specialization Animal Industry - Dairy Specialization</u>	Proposed Specialty Field w/in Formal Options:	<u>No change</u>		
Date of Contact with Associate Provost for Academic Administration <sup>1</sup> :		<u>10/22/2013</u>			
Bulletin (yr & pgs):	<u>2013-2014, pages 99-100</u>	CIP Code <sup>1</sup> :	<u>01.0901</u>	Today's Date:	<u>9/16/13</u>
Accrediting Agency (if applicable):		_____			
Requested Effective Date:	<input checked="" type="checkbox"/> Semester following approval.	OR	<input type="checkbox"/> Specific Date <sup>2</sup> :	_____	
Dept. Contact Person:	<u>William Silvia</u>	Phone:	<u>257-7545</u>	Email:	<u>wsilvia@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 UK</u>	<u>3</u>

<sup>1</sup> 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.

<sup>2</sup> Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

## CHANGE UNDERGRADUATE PROGRAM FORM

		<u>Core List</u>	
	Social Sciences	<u>From Approved UK Core List</u>	<u>3</u>
	Natural/Physical/Mathematical	<u>Satisfied by Pre-Major Req. (CHE 105 &amp; CHE 111)</u>	<u>3</u>
<b>II. Composition and Communication</b>			
	Composition and Communication I	CIS or WRD 110	3
	Composition and Communication II	CIS or WRD 111	3
<b>III. Quantitative Reasoning (one course in each area)</b>			
	Quantitative Foundations <sup>3</sup>	<u>Satisfied by Pre-Major Req. MA 123 or MA 113 or MA 137</u>	<u>4</u>
	Statistical Inferential Reasoning	<u>STA 210</u>	<u>3</u>
<b>IV. Citizenship (one course in each area)</b>			
	Community, Culture and Citizenship in the USA	<u>GEN 100</u>	<u>3</u>
	Global Dynamics	<u>From Approved UK Core List</u>	<u>3</u>
<b>Total General Education Hours</b>			<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).**

No

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

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

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

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

Current	Proposed
<u>MA 123 Elementary Calculus and Its Application (4 credits) or MA 113 Calculus I (4 credits)</u>	<u>MA 123 Elementary Calculus and Its Application (4 credits) or MA 113 Calculus I (4 credits) or MA 137</u>

<sup>3</sup> 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.

## CHANGE UNDERGRADUATE PROGRAM FORM

<u>BIO 148 Introductory Biology I (3 credits)</u> <u>BIO 152 Introductory Biology II (3 credits)</u> <u>CHE 105 General College Chemistry I (4 credits)</u> <u>CHE 107 General College Chemistry II (3 credits)</u> <u>CHE 111 Laboratory to Accompany General Chemistry I (1 credit)</u> <u>CHE 113 Laboratory to Accompany General Chemistry II (2 credits)</u> <u>WRD 203 Business Writing (3 credits)</u>	<u>Calculus I With Life Science Applications (4 credits)</u> <u>BIO 148 Introductory Biology I (3 credits)</u> <u>BIO 152 Introductory Biology II (3 credits)</u> <u>CHE 105 General College Chemistry I (4 credits)</u> <u>CHE 107 General College Chemistry II (3 credits)</u> <u>CHE 111 Laboratory to Accompany General Chemistry I (1 credit)</u> <u>CHE 113 Laboratory to Accompany General Chemistry II (2 credits)</u> <u>WRD 203 Business Writing (3 credits)</u>
---	---

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

Current	Proposed
<u>ASC 101 Domestic Animal Biology (3 credits)</u> <u>ASC 102 Applications in Animal Science (3 credits)</u> <u>ASC 205 Livestock, People, and Their Interactions (1 credit)</u> <u>ASC 325 Animal Physiology (3 credits)</u> <u>ASC 362 Animal Genetics (4 credits)</u> <u>ASC 364 Reproductive Physiology of Farm Animals (4 credits)</u> <u>ASC 378 Animal Nutrition and Feeding (4 credits)</u> <u>ASC 470 Capstone for Animal Agriculture (3 credits)</u>  plus at least <b>THREE</b> of the following courses: <u>ASC 340 Poultry Production (2 credits)</u> <u>ASC 404G Sheep Science (4 credits)</u> <u>ASC 406 Beef Cattle Science (4 credits)</u> <u>ASC 408G Swine Production (3 credits)</u> <u>ASC 410G Equine Science (3)</u> <u>ASC 420G Dairy Cattle Science (3)</u>	<u>ASC 101 Domestic Animal Biology (3 credits)</u> <u>ASC 102 Applications in Animal Science (3 credits)</u> <u>ASC 205 Livestock, People, and Their Interactions (1 credit)</u> <u>ASC 325 Animal Physiology (3 credits)</u> <u>ASC 362 Animal Genetics (4 credits)</u> <u>ASC 364 Reproductive Physiology of Farm Animals (4 credits)</u> <u>ASC 378 Animal Nutrition and Feeding (4 credits)</u> <u>ASC 470 Capstone for Animal Agriculture (3 credits)</u> <u>ASC 499 Academic Enrichment Experience in Animal Science (1 credit)</u>  plus at least <b>THREE</b> of the following courses: <u>ASC 340 Poultry Production (2 credits)</u> <u>ASC 404G Sheep Science (4 credits)</u> <u>ASC 406 Beef Cattle Science (4 credits)</u> <u>ASC 408G Swine Production (3 credits)</u> <u>ASC 410G Equine Science (3)</u> <u>ASC 420G Dairy Cattle Science (3)</u>

**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
_____	_____

**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
_____	_____

## CHANGE UNDERGRADUATE PROGRAM FORM

**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
<u>min. of 15</u>	<u>min. of 14</u>

**13. Summary of changes in required credit hours:**

	Current	Proposed
a. Credit Hours of Premajor or Preprofessional Courses:	<u>23</u>	<u>23</u>
b. Credit Hours of Major's Requirements:	<u>32-36</u>	<u>33-37</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>0</u>	<u>0</u>
f. Credit Hours in Technical or Professional Support Electives:	<u>18 to 23</u>	<u>18 to 22 * addition is incorrect in the 2013-2014 major sheet</u>
g. Minimum Credit Hours of Free/Supportive Electives:	<u>min. 15</u>	<u>min. 14</u>
h. Total Credit Hours Required by Level:	100: <u>32-35</u>	<u>32-35</u>
	200: <u>7-22</u>	<u>7-22</u>
	300: <u>15-26</u>	<u>15-26</u>
	400-500: <u>9-17</u>	<u>10-18</u>
i. Total Credit Hours Required for Graduation:	<u>120</u>	<u>120</u>

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

The addition of MA 137-Calculus I with Life Science Application to the choices of calculus classes in the pre-major requirements will allow Animal Sciences' students more options of calculus courses to fulfill their pre-major requirements.

The addition of ASC 499-Academic Enrichment Experience in Animal Science to the major requirements is to follow compliance with the College of Agriculture, Food, and Environment major requirements.

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

<b>YEAR 1 – FALL:</b> (e.g. "BIO 103; 3 credits")	<u>See attached sheets</u>	<b>YEAR 1 – SPRING:</b>	_____
<b>YEAR 2 - FALL :</b>	_____	<b>YEAR 2 – SPRING:</b>	_____

CHANGE UNDERGRADUATE PROGRAM FORM

<b>YEAR 3 - FALL:</b>	_____	<b>YEAR 3 - SPRING:</b>	_____
<b>YEAR 4 - FALL:</b>	_____	<b>YEAR 4 - SPRING:</b>	_____

CHANGE UNDERGRADUATE PROGRAM FORM

Signature Routing Log

**General Information:**

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

Proposal Contact Person Name: William Silvia Phone: 257-7545 Email: wsilvia@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
Animal Sciences Faculty	May 7, 2013	Robert Harmon / 7-2686 / rharmon@uky.edu	
		/ /	
		/ /	
		/ /	
		/ /	

**External-to-College Approvals:**

Council	Date Approved	Signature	Approval of Revision <sup>4</sup>
Undergraduate Council	11/19/13	Joanie Ett-Mims	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

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

## Animal Sciences Pre-Professional Option Four Year 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 100 Issues in Agriculture	3
MA 123/MA 113/MA 137 Calculus	4
<b>Total</b>	<b>18</b>

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
<b>Total</b>	<b>17</b>

### 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
<b>Total</b>	<b>14</b>

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
<b>Total</b>	<b>16</b>

### Year 3

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

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 364b Animal Reproduction	4
PHY 213 Physics II	5
Free Elective*	3
<b>Total</b>	<b>16</b>

### Year 4

Course	Credit Hours
ASC 470 Capstone in Animal	3
ASC Production Elective	2-4
ASC Production Elective	2-4
WRD 203 Grad Writing Req	3
Free Elective*	3
<b>Total</b>	<b>13-17</b>

Course	Credit Hours
ASC Production Elective	2-4
ASC 499 Academic Enrichment Experience in Animal Science**	1
Free Elective*	1-6
<b>Total</b>	<b>4-11</b>

BIO 155 - Is required for upper level biology courses  
a = only offered during fall

b = only offered during spring

\* = Consider 300 level electives

\*\* = Faculty sponsor required

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

**Animal Sciences Animal Industry Option No Specialization  
Four Year 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 100 Issues in Agriculture	3
MA 123/MA 113/MA 137 Calculus	4
<b>Total</b>	<b>18</b>

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
<b>Total</b>	<b>14</b>

**Year 2**

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 230 or CHE 236 Organic Chem	3
UK Core Humanities	3
UK Core Global Dynamic	3
Specialty Support Elective	3
<b>Total</b>	<b>16</b>

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
<b>Total</b>	<b>15</b>

**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
<b>Total</b>	<b>16</b>

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 364b Animal Reproduction	4
Specialty Support Elective	3
Free Elective*	3
<b>Total</b>	<b>14</b>

**Year 4**

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
WRD 203 Grad Writing Req	3
Specialty Support Elective	3
<b>Total</b>	<b>13-17</b>

Course	Credit Hours
ASC Production Elective	2-4
ASC 499 Academic Enrichment Experience in Animal Science**	1
Free Elective*	3
Free Elective*	3
Free Elective*	1-3
<b>Total</b>	<b>10-14</b>

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

Speciality support electives are approved 200 level or higher classes outside of Animal Sciences

a = only offered during fall

b = only offered during spring

\* = Consider 300 level electives

\*\* = Faculty sponsor required



**Animal Sciences Animal Industry Option Dairy Specialization  
Four Year 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/MA 137 Calculus	4
<b>Total</b>	<b>18</b>

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
<b>Total</b>	<b>14</b>

**Year 2**

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 230 or CHE 236 Organic Chem	3
UK Core Humanities	3
UK Core Global Dynamic	3
Specialty Support Elective	3
<b>Total</b>	<b>16</b>

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
<b>Total</b>	<b>15</b>

**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
<b>Total</b>	<b>16</b>

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 364b Animal Reproduction	4
Specialty Support Elective	3
Free Elective*	3
<b>Total</b>	<b>14</b>

**Year 4**

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC 420Ga Dairy Science	4
WRD 203 Grad Writing Req	3
Free Elective*	3
<b>Total</b>	<b>15-17</b>

Course	Credit Hours
ASC Production Elective	2-4
ASC 499 Academic Enrichment Experience in Animal Science**	1
ASC 564b Milk Secretion	3
Free Elective*	3
Free Elective*	1-3
<b>Total</b>	<b>10-14</b>

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

Speciality support electives are approved 200 level or higher classes outside of Animal Sciences

a = only offered during fall

b = only offered during spring

\* = Consider 300 level electives

\*\* = Faculty sponsor required

**Animal Sciences Animal Industry Option Equine Specialization  
Four Year 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/MA 137 Calculus	4
<b>Total</b>	<b>18</b>

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
<b>Total</b>	<b>14</b>

**Year 2**

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 230 or CHE 236 Organic Chem	3
UK Core Humanities	3
UK Core Global Dynamic	3
Specialty Support Elective	3
<b>Total</b>	<b>16</b>

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
<b>Total</b>	<b>14</b>

**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
<b>Total</b>	<b>16</b>

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 364b Animal Reproduction	4
Specialty Support Elective	3
Free Elective*	3
<b>Total</b>	<b>14</b>

**Year 4**

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
WRD 203 Grad Writing Req	3
Specialty Support Elective	3
<b>Total</b>	<b>13-17</b>

Course	Credit Hours
ASC 410G Equine Science	3
ASC 499 Academic Enrichment Experience in Animal Science**	1
Free Elective*	3
Free Elective*	3
Free Elective*	1-5
<b>Total</b>	<b>11-15</b>

**Specialty support electives are approved 200 level or higher classes outside of Animal Sciences**

a = only offered during fall

b = only offered during spring

\* = Consider 300 level electives

\*\* = Faculty sponsor required

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

## Animal Sciences Animal Industry Option Livestock Specialization Four Year 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/MA 137 Calculus	4
<b>Total</b>	<b>18</b>

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
<b>Total</b>	<b>14</b>

### Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 230 or CHE 236 Organic Chem	3
UK Core Humanities	3
UK Core Global Dynamic	3
Specialty Support Elective	3
<b>Total</b>	<b>16</b>

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
<b>Total</b>	<b>15</b>

### 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
<b>Total</b>	<b>17</b>

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 364b Animal Reproduction	4
Specialty Support Elective	3
Free Elective*	3
<b>Total</b>	<b>14</b>

### Year 4

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
WRD 203 Grad Writing Req	3
Specialty Support Elective	3
<b>Total</b>	<b>13-17</b>

Course	Credit Hours
ASC Production Elective	2-4
ASC 499 Academic Enrichment Experience in Animal Science**	1
Free Elective*	3
Free Elective*	3-5
<b>Total</b>	<b>9-13</b>

Specialty support electives are approved 200 level or higher classes outside of Animal Sciences

a = only offered during fall

b = only offered during spring

\* = Consider 300 level electives

\*\* = Faculty sponsor required

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

## Animal Sciences Food Industry Option Four Year 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/MA 137 Calculus	4
<b>Total</b>	<b>18</b>

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
<b>Total</b>	<b>14</b>

### Year 2

Course	Credit Hours
ASC 205 Livestock, People & Interactions	1
BIO 148 Introduction to Biology	3
CHE 230 or CHE 236 Organic Chem	3
STA 210 Intro to Stats	3
UK Core Humanities	3
<b>Total</b>	<b>13</b>

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
<b>Total</b>	<b>15</b>

### Year 3

Course	Credit Hours
ASC 300a Meat Science	4
ASC 325a Animal Physiology	3
ASC 378a Animal Nutrition	4
Specialty Support Elective	3
Specialty Support Elective	3
<b>Total</b>	<b>16</b>

Course	Credit Hours
ASC 362b Animal Genetics	4
ASC 364b Animal Reproduction	4
FSC 304b Animal Derived Foods	5
Specialty Support Elective	3
<b>Total</b>	<b>16</b>

### Year 4

Course	Credit Hours
ASC 470 Capstone in Animal Science	3
ASC Production Elective	2-4
ASC Production Elective	2-4
WRD 203 Grad Writing Req	3
Specialty Support Elective	3
<b>Total</b>	<b>13-17</b>

Course	Credit Hours
ASC Production Elective	2-4
ASC 499 Academic Enrichment Experience in Animal Science**	1
Specialty Support	3
Free Elective*	3
Free Elective*	2-4
<b>Total</b>	<b>11-15</b>

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

Specialty support electives are approved 200 level or higher classes outside of Animal Sciences

a = only offered during fall

b = only offered during spring

\* = Consider 300 level electives

\*\* = Faculty sponsor required