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OFFICE OF THE
SENATE COUNCIL**Course Information**

Date Submitted: 4/12/2016

Current Prefix and Number: ASC - Animal Sciences , ASC 380 FEEDS AND FEEDING

Other Course:

Proposed Prefix and Number: ASC 380

What type of change is being proposed?

Major Change

Should this course be a UK Core Course? No

1. General Information

a. Submitted by the College of: AGRICULTURE, FOOD AND ENVIRONMENT

b. Department/Division: Animal and Food Sciences

c. Is there a change in 'ownership' of the course? No

If YES, what college/department will offer the course instead: Select...

e. Contact Person

Name: Ann Leed

Email: ann.leed@uky.edu

Phone: 257-2465

Responsible Faculty ID (if different from Contact)

Name: Eric Vanzant

Email: evanzant@uky.edu

Phone: 257-9438

f. Requested Effective Date

Semester Following Approval: Yes OR Effective Semester:

2. Designation and Description of Proposed Course

a. Current Distance Learning (DL) Status: Please Drop

b. Full Title: FEEDS AND FEEDING

Proposed Title: Applied Animal Nutrition

c. Current Transcript Title: FEEDS AND FEEDING

Proposed Transcript Title: Applied Animal Nutrition

d. Current Cross-listing: none

Proposed – ADD Cross-listing :

Proposed – REMOVE Cross-listing:

e. Current Meeting Patterns

LECTURE: 3

Proposed Meeting Patterns

LECTURE: 2

LABORATORY: 2

f. Current Grading System: ABC Letter Grade Scale

Proposed Grading System: *Letter (A, B, C, etc.)*

g. Current number of credit hours: 3

Proposed number of credit hours: 3

h. Currently, is this course repeatable for additional credit? No

Proposed to be repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester? No

2i. Current Course Description for Bulletin: The composition and nutritional characteristics of common feedstuffs. The digestive systems, nutritional requirements, formulated rations and economical feeding programs for farm animals. Prereq: ASC 101, BIO 152, CHE 105, MA 109 or equivalent, or consent of instructor.

Proposed Course Description for Bulletin: The composition and nutritional characteristics of common feedstuffs. The digestive systems, nutritional requirements, formulated rations and economical feeding programs for farm animals. Prereq: ASC 378 or consent of instructor.

2j. Current Prerequisites, if any: ASC 101, BIO 152, CHE 105, MA 109 or equivalent, or consent of instructor.

Proposed Prerequisites, if any: ASC 378 or consent of instructor.

2k. Current Supplementary Teaching Component:

Proposed Supplementary Teaching Component: No Change

3. Currently, is this course taught off campus? No

Proposed to be taught off campus? No

If YES, enter the off campus address:

4. Are significant changes in content/student learning outcomes of the course being proposed? No

If YES, explain and offer brief rationale:

5a. Are there other depts. and/or pgms that could be affected by the proposed change? No

If YES, identify the depts. and/or pgms:

5b. Will modifying this course result in a new requirement of ANY program? No

If YES, list the program(s) here:

6. Check box if changed to 400G or 500: No

Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|RCOFFEY|Richard D Coffey|ASC 380 CHANGE Dept Review|20151201

SIGNATURE|LGRABAU|Larry J Grabau|ASC 380 CHANGE College Review|20160208

SIGNATURE|JMETT2|Joanie Ett-Mims|ASC 380 CHANGE Undergrad Council Review|20160413

Course Change Form

<https://myuk.uky.edu/sap/bc/soap/rfc?services=>

Open in full window to print or save

Generate R

Attachments:

Browse...

Upload File

ID	Attachment
Delete 6662	ASC 380 Syllabus 2017 UPDATED.docx

First 1 Last

NOTE: Start form entry by choosing the Current Prefix and Number
(*denotes required fields)

Current Prefix and Number: ASC - Animal Sciences ASC 380 FEEDS AND FEEDING		Proposed Prefix & Number: (example: PHY 401G) ASC 380 <input checked="" type="checkbox"/> Check if same as current
* What type of change is being proposed?		<input checked="" type="checkbox"/> Major Change <input type="checkbox"/> Major - Add Distance Learning <input type="checkbox"/> Minor - change in number within the same hundred series, except 799 is the same "hundred series" <input type="checkbox"/> Minor - editorial change in course title or description which does change in content or emphasis <input type="checkbox"/> Minor - a change in prerequisite(s) which does not imply a change in course content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s) <input type="checkbox"/> Minor - a cross listing of a course as described above
Should this course be a UK Core Course? <input type="radio"/> Yes <input checked="" type="radio"/> No If YES, check the areas that apply: <input type="checkbox"/> Inquiry - Arts & Creativity <input type="checkbox"/> Composition & Communications - II <input type="checkbox"/> Inquiry - Humanities <input type="checkbox"/> Quantitative Foundations <input type="checkbox"/> Inquiry - Nat/Math/Phys Sci <input type="checkbox"/> Statistical Inferential Reasoning <input type="checkbox"/> Inquiry - Social Sciences <input type="checkbox"/> U.S. Citizenship, Community, Diversity <input type="checkbox"/> Composition & Communications - I <input type="checkbox"/> Global Dynamics		
1. General Information		
a. Submitted by the College of: AGRICULTURE, FOOD AND ENVIRONMENT		Submission Date: 4/12/2016
b. Department/Division: Animal and Food Sciences		
c.* Is there a change in "ownership" of the course? <input type="radio"/> Yes <input checked="" type="radio"/> No If YES, what college/department will offer the course instead? Select...		
e.* Contact Person Name: Ann Lead Email: ann.lead@uky.edu Phone: 257-2465		
* Responsible Faculty ID (if different from Contact): Eric Vanzant Email: evanzant@uky.edu Phone: 257-9438		
f.* Requested Effective Date:		<input checked="" type="checkbox"/> Semester Following Approval OR Specific Term: ²
2. Designation and Description of Proposed Course.		
a. Current Distance Learning(DL) Status:		<input type="radio"/> N/A <input type="radio"/> Already approved for DL* <input type="radio"/> Please Add <input checked="" type="radio"/> Please Drop
*If already approved for DL, the Distance Learning Form must also be submitted <u>unless</u> the department affirms (by checking this box) that the proposed change will not affect DL delivery.		
b. Full Title: FEEDS AND FEEDING		Proposed Title: * Applied Animal Nutrition
c. Current Transcript Title (if full title is more than 40 characters):		FEEDS AND FEEDING
c. Proposed Transcript Title (if full title is more than 40 characters):		Applied Animal Nutrition
d. Current Cross-listing:		<input checked="" type="checkbox"/> N/A OR Currently ³ Cross-listed with (Prefix & Number): none

Proposed – ADD ² Cross-listing (Prefix & Number):					
Proposed – REMOVE ^{3,4} Cross-listing (Prefix & Number):					
e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours⁵ for each meeting pattern					
Current:	Lecture	Laboratory ²	Recitation	Discussion	Indep. Study
	3				
	Clinical	Colloquium	Practicum	Research	Residency
	Seminar	Studio	Other: Please explain:		
Proposed: *	Lecture	Laboratory ²	Recitation	Discussion	Indep. Study
	2	2			
	Clinical	Colloquium	Practicum	Research	Residency
	Seminar	Studio	Other: Please explain:		
f. Current Grading System:		ABC Letter Grade Scale			
Proposed Grading System:*		<input checked="" type="radio"/> Letter (A, B, C, etc.) <input type="radio"/> Pass/Fail <input type="radio"/> Medicine Numeric Grade (Non-medical students will receive a letter grade) <input type="radio"/> Graduate School Grade Scale			
g. Current number of credit hours:	3	Proposed number of credit hours:*	3		
h.* Currently, is this course repeatable for additional credit?					<input type="radio"/> Yes <input checked="" type="radio"/> No
* Proposed to be repeatable for additional credit?					<input type="radio"/> Yes <input checked="" type="radio"/> No
If YES:	Maximum number of credit hours:				
If YES:	Will this course allow multiple registrations during the same semester?				<input type="radio"/> Yes <input checked="" type="radio"/> No
i. Current Course Description for Bulletin:					
The composition and nutritional characteristics of common feedstuffs. The digestive systems, nutritional requirements, formulated rations and economical feeding programs for farm animals. Prereq: ASC 101, BIO 152, CHE 105, MA 109 or equivalent, or consent of instructor.					
* Proposed Course Description for Bulletin:					
The composition and nutritional characteristics of common feedstuffs. The digestive systems, nutritional requirements, formulated rations and economical feeding programs for farm animals. Prereq: ASC 378 or consent of instructor.					
j. Current Prerequisites, if any:					
ASC 101, BIO 152, CHE 105, MA 109 or equivalent, or consent of instructor.					
* Proposed Prerequisites, if any:					
ASC 378 or consent of instructor.					
k. Current Supplementary Teaching Component, if any:				<input type="radio"/> Community-Based Experience <input type="radio"/> Service Learning <input type="radio"/> Both	

	Proposed Supplementary Teaching Component:	<input type="radio"/> Community-Based Experience <input type="radio"/> Service Learning <input type="radio"/> Both <input checked="" type="radio"/> No Change
3.	Currently, is this course taught off campus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
*	Proposed to be taught off campus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If YES, enter the off campus address:	
4.*	Are significant changes in content/student learning outcomes of the course being proposed?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If YES, explain and offer brief rationale:	
5.	Course Relationship to Program(s).	
a.*	Are there other depts and/or pgms that could be affected by the proposed change?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If YES, identify the depts. and/or pgms:	
b.*	Will modifying this course result in a new requirement ² for ANY program?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	If YES ² , list the program(s) here:	
6.	Information to be Placed on Syllabus.	
a.	<input type="checkbox"/> Check box if changed to 400G or 500.	If changed to 400G- or 500-level course you must send in a syllabus and you must include the differentiation between under and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different gra in the course for graduate students. (See SR 3.1.4.)

¹See comment description regarding minor course change. *Minor changes are sent directly from dean's office to Senate Council Chair.* If Chair deems the change as "not minor," the form will be referred to appropriate academic Council for normal processing and contact person is informed.

²Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

³Signature of the chair of the cross-listing department is required on the Signature Routing Log.

⁴Removing a cross-listing does not drop the other course – it merely unlinks the two courses.

⁵Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting generally represents one hour of classroom meeting per wk for a semester. Lab meeting generally represents at least two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.)

⁶You must also submit the Distance Learning Form in order for the course to be considered for DL delivery.

⁷In order to change a program, a program change form must also be submitted.

ASC 380
Applied Animal Nutrition
Lecture: Monday/Wednesday 4:00-4:50
Lab: Thursday or Friday (various times)
3 credit hours
Spring Semester

Instructor: Eric Vanzant, PhD
Office Address: 805 WP Garrigus Bldg
Email: evanzant@uky.edu
Office Phone: 859-257-9438

Office hours: By appointment

Course Description:

The composition and nutritional characteristics of common feedstuffs. The digestive systems, nutritional requirements, formulated rations and economical feeding programs for farm animals.

Prerequisites:

ASC 378 or consent of instructor

Student Learning Outcomes:

After completing this course, the student will be able to:

1. Describe the characteristics of various feedstuffs
2. Determine the nutrient requirements of various classes of livestock under varying environmental conditions and production expectations
3. Use knowledge of feedstuff composition and nutrient requirements to formulate rations for individuals and groups of animals
4. Design practical feeding programs for life cycle feeding of various classes of animals

Course goals or objectives:

To introduce the concepts, principles, vocabulary, and skills needed to feed farm animals efficiently. This course will enable students to (1) understand the characteristics of various types of feedstuffs, (2) understand the nutrient requirements of animals during various stages of production (growth, gestation, lactation, etc.) (3) learn procedures of formulating diets for animals, and (4) become familiar with practical feeding programs for various classes of animals (beef cattle, dairy cattle, small ruminants, swine, poultry, horses).

Required Materials:

No textbook required. All materials will be provided, predominantly in electronic form.

Reference Text Books:

Applied Animal Nutrition: Feeds and Feeding. Cheeke. 3rd ed. Prentice Hall. 2005.

Feeds and Nutrition: Ensminger, Oldfield, and Heinemann. 2nd ed. Ensminger Publishing Co. 1990.

Livestock Feeds and Feeding. Kellems and Church. 6th ed. Prentice Hall. 2010.

Basic Animal Nutrition and Feeding. Pond, Church, and Pond. 5th ed. John Wiley and Sons. 2004.

Course Assignments:**Grading:**

Item	Points	Points	Grade
10 Quizzes (15pts each)	150	900-1000	A
3 Midterm Exams	450	800-899	B
Lab exercises	250	700-799	C
Final Exam	150	600-699	D
Total Points	1000	<600	E

Final Exam Information

Date, time, location, other information

Mid-term Grade

Mid-term grades will be posted in myUK by the deadline established in the Academic Calendar (<http://www.uky.edu/registrar/content/academic-calendar>)

Attendance Policy:

No separate grade is assigned for attendance in this class. Quizzes, both announced and unannounced, will occur in lecture, and unexcused absences will result in a zero for those grades. Due to the structure of the labs, no makeups are possible. Thus, unexcused absences from lab will result in a zero for that lab grade.

Excused Absences

Students need to notify the professor of absences prior to class when possible. *Senate Rules 5.2.4.2* defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Two weeks prior to the absence is reasonable, but should not be given any later. Information regarding major religious holidays may be obtained through the Ombud (859-257-3737, http://www.uky.edu/Ombud/ForStudents_ExcusedAbsences.php).

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused) per University policy.

Per *Senate Rule 5.2.4.2*, students missing any graded work due to an excused absence are responsible: for informing the Instructor of Record about their excused absence within one week following the period of the excused absence (except where prior notification is required); and for making up the missed work. The professor must give the student an opportunity to make up the work and/or the exams missed due to an excused absence, and shall do so, if feasible, during the semester in which the absence occurred.

Verification of Absences

Students may be asked to verify their absences in order for them to be considered excused. *Senate Rule 5.2.4.2* states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness, or death in the family. Appropriate notification of absences due to University-related trips is required prior to the absence when feasible and in no case more than one week after the absence.

Academic Integrity:

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <http://www.uky.edu/Ombud>. A plea of

ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of *Student Rights and Responsibilities* (available online <http://www.uky.edu/StudentAffairs/Code/part2.html>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it be a published article, chapter of a book, a paper from a friend or some file, or something similar to this. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student's assignment involves research in outside sources of information, the student must carefully acknowledge exactly what, where and how he/she employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain (Section 6.3.1).

Please note: Any assignment you turn in may be submitted to an electronic database to check for plagiarism.

Accommodations due to disability

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. It is located on the corner of Rose Street and Huguelet Drive in the Multidisciplinary Science Building, Suite 407. You can reach them via phone at (859) 257-2754 and via email at drc@uky.edu. Their web address is <http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/>.

Emergency Preparedness:

If an emergency arises in this classroom, building or vicinity, your instructor will advise you of actions to follow to enhance your safety. If a situation requires emergency shelter (i.e., during a severe weather event), the nearest shelter location is the basement of the WP Garrigus Building. If building evacuation occurs (i.e., fire alarm), follow posted evacuation routes and assemble in the parking lot on the west side of the greenhouses (if on the first through ninth floor of Garrigus, assemble on the east side of the building near the edge of the parking lot) so the instructor can help ensure their students have

evacuated the building safely and they are not hindering emergency personnel access to the building. If you may require assistance during an emergency, notify the instructor at the beginning of the semester. In order to prepare for emergencies while on campus please continue to the below links for detailed emergency response guidelines: the UK Division of Crisis Management & Preparedness website (<http://www.uky.edu/EM/emergency-response-guide.html>) and the College of Agriculture, Food and Environment (<http://www.ca.uky.edu/>). To receive emergency messages, sign up for UK Alert (<http://www.uky.edu/EM/UKAlert>). Always turn cellular phones to silent mode when entering the classroom. If you observe or receive an emergency alert, immediately and calmly inform your instructor."

Tentative Schedule:

Week	Lecture Topic	Lab Topics
1	Introduction	Lab Intro
2	No Class – MLK Day	
	Review – Nutrients/Digestive Physiology	Unit Conversion Concepts
3	Feed Composition/Analysis	
	Energy feeds 1	Dry Matter Concepts
4	Energy feeds 2	
	Protein feeds 1	Feed Analysis/Energy Feeds
5	Protein feeds 2	
	EXAM 1	Pearson square/Simple Algebra/Protein Feeds
6	Roughages	
	Forage Harvesting/Utilization	Forages/Balancing forage diets
7	Micronutrients	
	Feed Additives	Minerals/Vitamins/Premixes
8	Nutrient Requirements	
	Feed Laws/Labeling	Nutrient requirements/Computer Formulation I
9	Feed Manufacturing/Processing	
	EXAM 2	Computer Formulation II
10	Spring Break	
	Spring Break	Spring Break
11	Poultry	
	Poultry	Poultry Diets
12	Swine	
	Swine	Swine Diets
13	Equine	
	Equine	Equine Diets
14	EXAM 3	
	Ruminants	Ruminant Rations 1
15	Beef	
	Dairy	Beef/Dairy Diets
16	Small Ruminants	
	TBA	Quiz Bowl
17	FINAL EXAM	