

Course Information

Date Submitted: 4/12/2016

Current Prefix and Number: ASC - Animal Sciences , ASC 378 ANIMAL NUTRITION/FEEDING

Other Course:

Proposed Prefix and Number: ASC 378

What type of change is being proposed?

Major Change

Should this course be a UK Core Course? No

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APR 13 2016

OFFICE OF THE
SENATE COUNCIL**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: Tayo Adedokun

Email: tayo.adedokun@uky.edu

Phone: 257-3821

f. Requested Effective Date

Semester Following Approval: Yes OR Effective Semester:

2. Designation and Description of Proposed Course

a. Current Distance Learning (DL) Status: N/A

b. Full Title: ANIMAL NUTRITION AND FEEDING

Proposed Title: Animal Nutrition and Feeding

c. Current Transcript Title: ANIMAL NUTRITION/FEEDING

Proposed Transcript Title: Animal Nutrition/Feeding

d. Current Cross-listing: none

Proposed – ADD Cross-listing :

Proposed – REMOVE Cross-listing:

e. Current Meeting Patterns

LECTURE: 3

LABORATORY: 2

Proposed Meeting Patterns

LECTURE: 3

f. Current Grading System: ABC Letter Grade Scale

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

g. Current number of credit hours: 4

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: A fundamental study of the nutrients, their utilization and their role in the animal in conjunction with an applied understanding of the manner in which feedstuffs are evaluated and blended to meet the various species needs for those nutrients. Prereq: ASC 101 and CHE 230 or CHE 236.

Proposed Course Description for Bulletin: A fundamental study of the nutrients, their utilization and their role in the animal in conjunction with an applied understanding of the manner in which feedstuffs are evaluated and blended to meet the various species needs for those nutrients. Prereq: ASC 101 and CHE 230 or CHE 236.

2j. Current Prerequisites, if any: Prereq: ASC 101 and CHE 230 or CHE 236.

Proposed Prerequisites, if any: Prereq: ASC 101 and CHE 230 or CHE 236.

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 rational:

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 378 CHANGE Dept Review|20151201

SIGNATURE|LGRABAU|Larry J Grabau|ASC 378 CHANGE College Review|20160208

SIGNATURE|JMETT2|Joanie Ett-Mims|ASC 378 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 F

Attachments:

Upload File

ID	Attachment
Delete 6661	ASC 378 Syllabus Fall 2016 UPDATED.docx

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

Current Prefix and Number: ASC - Animal Sciences ASC 378 ANIMAL NUTRITION/FEEDING		Proposed Prefix & Number: (example: PHY 401G) <input checked="" type="checkbox"/> Check if same as current ASC 378
* 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 edit 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? <input type="text" value="Select..."/>		
e.* Contact Person Name: Ann Leed Email: ann.leed@uky.edu Phone: 257-2465 * Responsible Faculty ID (if different from Contact): Tayo Adedokun Email: tayoadedokun@uky.edu Phone: 257-3821		
f.* Requested Effective Date: <input checked="" type="checkbox"/> Semester Following Approval OR Specific Term: ⁴		
2. Designation and Description of Proposed Course.		
a.	Current Distance Learning(DL) Status:	<input checked="" type="radio"/> N/A <input type="radio"/> Already approved for DL* <input type="radio"/> Please Add <input type="radio"/> Please Drop
*If already approved for DL, the Distance Learning Form must also be submitted unless the department affirms (by checking this box) that the proposed change affect DL delivery.		
b.	Full Title: ANIMAL NUTRITION AND FEEDING	Proposed Title: * Animal Nutrition and Feeding
c.		Current Transcript Title (if full title is more than 40 characters): ANIMAL NUTRITION/FEEDING
c.		Proposed Transcript Title (if full title is more than 40 characters): Animal Nutrition/Feeding
d.	Current Cross-listing: <input checked="" type="checkbox"/> N/A	OR Currently ³ Cross-listed with (Prefix & Number): none

Proposed – ADD ³ 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 3	Laboratory ⁶ 2	Recitation	Discussion	Indep. Study
	Clinical	Colloquium	Practicum	Research	Residency
	Seminar	Studio	Other: _____ Please explain:		
Proposed: *	Lecture 3	Laboratory ⁶	Recitation	Discussion	Indep. Study
	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:		4	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:					
A fundamental study of the nutrients, their utilization and their role in the animal in conjunction with an applied understanding of the manner in which feedstuffs are evaluated and blended to meet the various species needs for those nutrients. Prereq: ASC 101 and CHE 230 or CHE 236.					
* Proposed Course Description for Bulletin:					
A fundamental study of the nutrients, their utilization and their role in the animal in conjunction with an applied understanding of the manner in which feedstuffs are evaluated and blended to meet the various species needs for those nutrients. Prereq: ASC 101 and CHE 230 or CHE 236.					
j. Current Prerequisites, if any:					
Prereq: ASC 101 and CHE 230 or CHE 236.					
* Proposed Prerequisites, if any:					
Prereq: ASC 101 and CHE 230 or CHE 236.					
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
a.*	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 <u>changed to</u> 400G or 500.	If <u>changed to</u> 400G- or 500-level course you must send in a syllabus and you <i>must include the differentiation</i> between under and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different grades 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 sent to the 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 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.

ANIMAL NUTRITION AND FEEDING

ASC 378

Fall Semester, 2016

3 credit hours

MWF 11 – 11:50 WP Garrigus B52

Instructor: Tayo Adedokun, Assistant Professor of Animal Sciences
912 W. P. Garrigus Building
Telephone: 257-3821
E-mail: tayo.adedokun@uky.edu
Office hours: By appointment

Text: None required. It is expected that students will review and understand all material presented in ASC 101 (which is now available in the publication “Domestic Animal Biology” by William J. Silvia) as a foundation for ASC 378.

Course Notes: Notes, handouts, etc. will be distributed via Canvas.

Course Description:

A fundamental study of the nutrients, their utilization and their role in the animal in conjunction with an applied understanding of the manner in which feedstuffs are evaluated and blended to meet the various species needs for those nutrients.

Prerequisites: ASC 101 and CHE 230 or CHE 236

Student Learning Outcomes:

Upon completion of this course, the student will be able to:

1. Knowledge of the classes of nutrients, describe their form of occurrence in nature, and identify their natural or synthetic substitutes.
2. Knowledge of the physical and chemical modifications of nutrients in the digestive tract.
3. Comprehend the absorption and distribution of nutrients within the body.
4. Knowledge of the mechanisms that regulate nutrient digestion, metabolism, and excretion.
5. Synthesis roles of the individual nutrients and the individual body functions into a concept of overall function.

Course Assignments:	4 Exams X 100 points each	400
	Final examination	<u>100</u>
		500 points

All material presented in class orally in lecture, in the class notes or in handouts is testable material. Proper spelling of specific terms is required.

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 (boilerplate)

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.

Grading:	<u>Grade</u>	<u>Percentage</u>
	A	90 -100
	B	80 – 89.99
	C	70 – 79.99
	D	60 – 69.99
	E	< 60

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>)

Reference Materials:

- Texts: Duke's Physiology of Domestic Animals. 2004, 13th Ed. Reece.
Modern Nutrition in Health and Disease. 2014, 11th Ed. Ross, Caballero, Cousins, Tucker, & Ziegler.
Basic Animal Nutrition and Feeding. 1995, 5th Ed. Pond, Church, Pond, & Schoknecht.
Applied Animal Nutrition: Feeds and feeding. 2005. 3rd Ed. Cheeke.

Fundamentals of Nutrition. 1978, 2nd Ed. Lloyd, McDonald and Crampton.
Animal Feeding and Nutrition. 2007, 10th Ed. Jurgens and Bregendahl
Biochemistry. 2002, 5th Ed. Berg, Tymoczko, Stryer and Clarke.
Nutrition: An Integrated Approach. 1984, 3rd Ed. Pike and Brown.

Reference material pertaining to the nutritive composition of feedstuffs and the nutrient requirements of various animal species:

- 1) U.S. - Canadian Feedstuff Composition, 3rd edition, 1982.
- 2) Nutrient Requirements of Domestic Animals; National Academy of Sciences. Washington, D.C.

<u>Species</u>	<u>Edition</u>	<u>Date</u>
Beef	7th	2000
Dairy	7th	2001
Horses	6th	2007
Poultry	9th	1994
Small Ruminants: Sheep, Goats, Cervids and New World Camelids		2007
Swine	11th	2012
Dogs and Cats		2006
Lab Animals	4th	1995
Fish and Shrimp		2011
Mink and Foxes	2nd	1982
Nonhuman Primates	2nd	2003
Rabbits	2nd	1977

These and other related titles are available for reading and/or purchase at:

<http://www.nap.edu/topics.php?topic=296>

ASC 378 - ANIMAL NUTRITION

Fall, 2017

Week	Lec	Day	Lecture Topic
1	1	W	Introduction to the course
	2	F	Terms and history
2	3	M	Animal/plant composition
	4	W	Comparative gastrointestinal tracts
	5	F	Digestion
3		M	Labor Day Holiday
	6	W	Enzymes/hormones
	7	F	Calculating digestibility and determining feed value
4	8	M	Calculating digestibility and determining feed value
	9	W	Water
		F	Exam No. 1
5	10	M	Carbohydrates
	11	W	Carbohydrates
	12	F	Carbohydrates
6	13	M	Lipids
	14	W	Lipids
	15	F	Lipids
7	16	M	Bioenergetics
	17	W	Current topics
	18	F	Nitrogen
8	19	M	Nitrogen
	20	W	Nitrogen
		F	Exam 2
9	21	M	Nitrogen
	22	W	Calcium, Phosphorus
	23	F	Magnesium, Sulfur
10	24	M	Sodium, Potassium, Chlorine
	25	W	Iron, Copper, Cobalt
	26	F	Iodine, Zinc, Manganese
11	27	M	Selenium, Molybdenum, Fluorine
	28	W	Chromium, Nickel, Strontium, Vanadium, Silicon
		F	Exam No. 3
12	29	M	Vitamin A and D
	30	W	Vitamin E and K
	31	F	Thiamin, Riboflavin
13	32	M	Niacin, Pyridoxine, Pantothenic Acid
	33	W	Biotin, Choline
	34	F	Vitamin B ₁₂ , Folic Acid, Vitamin C
14	35	M	Feed additives: antibiotics, growth stimulants, metabolic regulators, others
		W	Fall break
		F	Thanksgiving holiday
15	36	M	Toxins
	37	W	Current topics – Nutr & cognitive function
		F	Exam No. 4
16	38	M	Metabolic consequences (starvation)
	39	W	Feed manufacturing/processing
		F	Review

SEMI-COMPREHENSIVE Final Exam (_____)

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.”