

NEW COURSE FORM

1. General Information.				
a.	Submitted by the College of: Agriculture	Today's Date: 9/15/11		
b.	Department/Division: Animal and Food Sciences			
c.	Contact person name: Laurie Lawrence	Email: llawrenc@uky.edu	Phone: 7-7509	
d.	Requested Effective Date: <input checked="" type="checkbox"/> Semester following approval	OR	<input type="checkbox"/> Specific Term/Year ¹ : _____	
2. Designation and Description of Proposed Course.				
a.	Prefix and Number: ASC 389			
b.	Full Title: Applied Equine Nutrition and Feeding			
c.	Transcript Title (if full title is more than 40 characters): _____			
d.	To be Cross-Listed ² with (Prefix and Number): _____			
e.	Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours ³ for each meeting pattern type.			
	2 Lecture	_____ Laboratory ¹	_____ Recitation	_____ Discussion
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research
	_____ Seminar	_____ Studio	_____ Other – Please explain: _____	
f.	Identify a grading system:	<input checked="" type="checkbox"/> Letter (A, B, C, etc.)	<input type="checkbox"/> Pass/Fail	
g.	Number of credits:	2		
h.	Is this course repeatable for additional credit?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES: Maximum number of credit hours:	_____		
	If YES: Will this course allow multiple registrations during the same semester?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
i.	Course Description for Bulletin:	This course examines the feeding management of broodmares, growing horses, performance horses and horses with special needs. Lecture material covers common equine feeds, feed and ration analysis, factors influencing the utilization of feeds by horses, and factors affecting nutrient requirements and feeding management of the different classes of horses.		
j.	Prerequisites, if any:	A course in nutrition or consent of instructor		
k.	Will this course also be offered through Distance Learning?	YES ⁴ <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
l.	Supplementary teaching component, if any:	<input type="checkbox"/> Community-Based Experience	<input type="checkbox"/> Service Learning	<input type="checkbox"/> Both
3.	Will this course be taught off campus?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
4. Frequency of Course Offering.				

¹ Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

² The chair of the cross-listing department must sign off on the Signature Routing Log.

³ In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from SR 5.2.1)

⁴ You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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a. Course will be offered (check all that apply):	<input type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input type="checkbox"/> Summer
b. Will the course be offered every year?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
If NO, explain:	_____		
5. Are facilities and personnel necessary for the proposed new course available?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
If NO, explain:	_____		
6. What enrollment (per section per semester) may reasonably be expected?	20		
7. Anticipated Student Demand.			
a. Will this course serve students primarily within the degree program?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
b. Will it be of interest to a significant number of students outside the degree pgm?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
If YES, explain:	Under GEN 300 this course has had an enrollment of 19, 20 and 20 for the last 3 years. With higher visibility in the ASC prefix section, enrollment might be slightly higher. Students have come from a variety of majors including ASC, EQM, AEC and ABT.		
8. Check the category most applicable to this course:			
<input type="checkbox"/> Traditional – Offered in Corresponding Departments at Universities Elsewhere			
<input checked="" type="checkbox"/> Relatively New – Now Being Widely Established			
<input type="checkbox"/> Not Yet Found in Many (or Any) Other Universities			
9. Course Relationship to Program(s).			
a. Is this course part of a proposed new program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
If YES, name the proposed new program:	_____		
b. Will this course be a new requirement ⁵ for ANY program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
If YES ⁵ , list affected programs:	_____		
10. Information to be Placed on Syllabus.			
a. Is the course 400G or 500?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
If YES, the <i>differentiation for undergraduate and graduate students must be included</i> in the information required in 10.b. You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See <i>SR 3.1.4.</i>)			
b. <input checked="" type="checkbox"/>	The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached.		

⁵ In order to change a program, a program change form must also be submitted.

NEW COURSE FORM

Signature Routing Log

General Information:

Course Prefix and Number: ASC 389

Proposal Contact Person Name: Laurie Lawrence Phone: 7-7509 Email: llawrenc@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 and Food Sciences	10/14/11	Robert Harmon / 7-2686 / rharmon@uky.edu	
Undergraduate Curriculum Committee	10/28/11	Larry Grabau / 7-3469 / larry.grabau@uky.edu	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁶
Undergraduate Council	12/6/2011	S. Gill	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

⁶ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

ASC 389
Applied Equine Nutrition and Feeding
2 credit hours (2 hours of lecture/wk)
Spring Semester; Time and Date TBA

Instructor Information

Laurie Lawrence, Ph.D., Professor
Department of Animal and Food Sciences, College of Agriculture
614 Garrigus
257-7509
llawrenc@uky.edu
Office hours: Monday & Wednesday 1-2:30; By appointment (email or phone above)
Staff assistant on 6th Floor: Mary Santana 257-7533

Course Description:

This course examines the feeding management of broodmares, growing horses, performance horses and horses with special needs. Lecture material covers common equine feeds, feed and ration analysis, factors influencing the utilization of feeds by horses, and factors affecting nutrient requirements and feeding management of the different classes of horses.

Prerequisite: a course in nutrition or consent of the instructor.

Student Learning Outcomes:

By the end of the course students will be able to:

- 1) describe the equine digestive tract and list the site of digestion and absorption of different nutrients
- 2) explain the terms on a typical feed analysis report and use the report to compare feeds and make decisions about the use of the feed in equine rations
- 3) analyze a ration for adequacy and make specific recommendations for changes when appropriate
- 4) develop practical feeding management programs that meet the requirements for each of the following categories of horses: broodmares, weanlings, yearlings, recreational horses and performance horses.
- 5) find and use available information to critically analyze the benefits of equine nutritional supplements

Course Goals:

- 1) To understand the unique aspects of the equine digestive tract and how they affect feeding management
- 2) To understand the strengths and weaknesses of various feed ingredients used in horse diets

- 3) To understand how to apply nutrient recommendations to horse feeding programs
- 4) To be able to critically assess the need for and efficacy of, equine nutritional supplements.

Texts:

Recommended:

Nutrient Requirements of Horses, 2007. National Research Council, National Academy Press, Washington D.C.

Equine Clinical Nutrition, 1995, Lon D. Lewis, Williams and Wilkins Pub.

Southern Forages, 2002. D.M. Ball, C.S. Hoveland, G.D. Lacefield. Order from Potash and Phosphate Institute, 655 Engineering Dr Suite 110, Norcross GA. 30092; copies may also be available from the Department of Plant and Soil Sciences, University of Kentucky.

Other materials will be given out in class. You may choose to have a 3-ring binder for these handouts.

Graded Work and Assignment of Grades:

Exams: There will be two exams, a mid-term and a final. The format of exam questions will include multiple choice, fill-in the blank, matching, short answer and essay. The exams will reflect the material covered in class and in assignments, however, there is some information that you will be expected to know that may not be covered here. For example, you are expected to know basic information about nutrition such as the major classes of nutrients, and basic principles of digestion and gastrointestinal anatomy (note the prerequisite above). You should also know how to make simple calculations (using percentages, fractions, ratios etc) that are necessary when analyzing a diet. You must be able to convert from pounds to kilograms and grams. If you are not familiar with these procedures we will schedule a “help” session at the beginning of the semester. The final exam will be cumulative.

Assignments and Quizzes: During the semester, there will be periodic assignments that will be turned in for credit. Homework and assignments are given out in hard-copy during class. Each assignment will have specific guidelines. Some examples of assignments will be: calculating the nutrients contained in a horse’s diet when you are given the amount of each feed and the composition of the feed; calculating the amount of hay and grain to feed to a particular horse when you are given the horse’s requirement and the composition of the feed; reading a research paper and writing an evaluation of the credibility and usefulness of the information it contains; comparing the advantages and disadvantages of two feeds based on a feed analysis report; obtaining a feed tag for an equine feed and writing an analysis/explanation of the purpose of the each ingredient in the feed. Credit (points) for each assignment/homework will vary depending upon the difficulty of the work. Some of the assignments may involve an activity that occurs during class time. Other assignments may require you to use the library or the internet. If you do not have internet access at home, access may be obtained through the UK Library.

Unless specific permission is given to turn in an assignment by email, all assignments should be submitted in hard copy.

We may or may not have a few quizzes in class. Quizzes will be announced.

Other Notes about Graded Work: Homework and assignments must be turned in on time to receive full credit. Late papers will be subject to a 5% reduction for each day the assignment is late. An assignment is considered late if it is not submitted by end of class on the due date. Remember that assignments must be submitted in hard-copy, unless a specific alternative arrangement is made for a specific assignment. Assignments may be left in my mailbox on the 6th floor of the Garrigus Building. **DO NOT LEAVE ASSIGNMENTS ON MY OFFICE DESK OR UNDER THE DOOR!**

Grading:

Exams and assignments will be graded on a point basis. The mid-term and final exams will be worth 150 points. There will be 4-6 assignments and/or quizzes. The point value for each item will vary but the total points possible for quizzes and assignments will be 100. The total number of points accumulated during the semester will determine the final letter grade using the following system:

Mid-term exam	@ 150 pt	150
Final Exam	@ 150 pt	150
Quizzes/ Assignments		100
Total		400 pt

“A” = 360 points or above; “B”= 359-320 pt; “C”= 319-280 pt; “D” 279-260 pt; “E” < 260 pt

Undergraduate students will receive a mid-term grade that will be based on the mid-term exam and any other graded work. The mid-term grade is required by the university to aid students in assessing their status and progress. The mid-term assessment will be based on a percentage of possible points at the time of the assessment; >90%=A; 80-90%=B; 70-80%=C; 65-70%=; <65%=E.

Academic Expectations:

A higher level of academic work is expected of students in upper level undergraduate courses than of students beginning their undergraduate career. For each hour spent in class, students should expect to devote 1 to 3 hours of time outside of class to study and assignments. Students in this course are expected to pursue independent reading and critical thinking in the topic area. Exam questions and assignments will challenge students to connect information from different subject areas in order to solve problems. Because the ability to determine the credibility of various information sources is essential to the development of a professional in any field of science, students will be expected to become proficient at critically analyzing published material

relating to equine nutrition. Students are also expected to be able to write coherently. Written assignments will be graded on content and on presentation. Presentation includes organization, grammar, punctuation, spelling, sentence structure and neatness. Any hand-written assignments should be neat and easy to read.

During class you are expected to be respectful to others and to engage in civil discourse when we discuss topics that have different perspectives. Please do not engage in distracting behavior during class such as reading a newspaper or talking to others. If a lecture point is not clear to you, please raise your hand and ask for clarification. If something is not clear to you, chances are good it is not clear to others as well! Phones, etc. should be turned off during class.

We may occasionally have guest speakers. These speakers are typically industry professionals, not professional teachers and therefore it is essential that you make them feel comfortable. These individuals donate their time to share their knowledge and experiences with you. Please be attentive and polite at all times.

Attendance and Missed Classes:

Attendance is not mandatory but is expected. Failure to attend class and habitual lateness reflects poorly on an individual and often inconveniences others in the class. In order to reschedule an exam or make up a missed assignment, you must have an excused absence. The following is the UK policy on excused absences. Please read this carefully so you can comply with the stated requirements.

A student shall not be penalized for an excused absence. The following are defined as excused absences:

A. Significant illness of the student or serious illness of a member of the student's household (permanent or campus) or immediate family. The Instructor of Record shall have the right to request appropriate verification.

B. The death of a member of the student's household (permanent or campus) or immediate family. The Instructor of Record shall have the right to request appropriate verification. For the purpose of this rule, immediate family is defined as spouse or child or parent (guardian) or sibling (all of the previous include steps, halves and in-laws of the same relationship); and grandchild or grandparent

C. Trips for members of student organizations sponsored by an educational unit, trips for University classes, and trips for participation in intercollegiate athletic events, including club sports registered with the university as well as varsity sports. When feasible, the student must notify the Instructor of Record prior to the occurrence of such absences, but in no case shall such notification occur more than one week after the absence. Instructors of Record may request formal notification from appropriate university personnel to document the student's participation in such trips.

*D. Major Religious Holidays. Students are responsible for notifying the Instructor of Record **in writing** of anticipated absences due to their observance of such holidays no later than the last day for adding a class.*

E. Any other circumstances which the Instructor of Record finds reasonable cause for absence.

Students missing any graded work due to an excused absence bear the responsibility of 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 of making up the missed work. The Instructor of Record shall 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.

There may be other circumstances I find to be "reasonable cause for absence." I am much more understanding when approached before the missed class than after. When a class is missed that included an assignment, you will be able to make-up the work if the class was missed for one of the acceptable reasons for excused absences listed above. If there is another reason for missing the class, please consult with me as to whether a make-up assignment is possible.

If you are absent from class for reasons listed above as “acceptable”, I will help you obtain the information you missed. If you miss class for another reason, you will be responsible for obtaining notes from another student.

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 at <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, the content and the 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.

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

Using and documenting sources of information is an essential part of all writing, but people are often confused about what to document and how. The following guidelines may help you provide appropriate documentation and avoid plagiarizing someone else's work.

1) General information does not need to be documented. General information includes things that most people would be expected to know. For example, most (horse) people would be expected to know that horses are spring breeders; that horses are commonly considered nonruminant herbivores; or that lysine is an amino acid. You might also think of general information as something that is readily accepted by most people as fact (that is, not an opinion), or as above, something that is in the public domain.

2) More specific information should be documented. "Documentation" means that you provide the reader with a means of determining where you got the specific information. It also gives credit to the original author. Specific information might include: results from a research experiment, someone's opinion or recommendation, specific rules from a regulatory agency, a method for performing some measurement, etc.

3) When outside sources of information are used, the sources of the information must be correctly acknowledged. That is, the correct form of documentation must be provided. Providing the source of specific information does not give you the right to use direct quotes from that source, unless you put the statement within quotation marks. Although you may choose to do this occasionally (use quotation marks) this is not the most desirable way of putting the information into your project. Instead, you should formulate your own thoughts using the fact and just reference the fact. "Someone else's words" would include a paragraph, a sentence or even a long phrase. *There are very few instances in most papers/projects on animal science subjects where it*

is appropriate to directly quote material from reference sources. Instead, one should use the information from a reference in phrases, sentences and paragraphs of your own words.

4) Remember that when you write a paper and put your name on it, you are claiming ownership for the content. Any part of the content that is not from your own intellectual activity must be appropriately documented to give credit to the original author. When using data from someone else's work and putting those data into a table or figure, it is appropriate to state "Adapted from 'author, date'". The same applies when using a figure or diagram. If you "copy and paste" a diagram or figure from someone else's work into your work without giving credit, this is plagiarism.

5) If you are uncertain as to what is appropriate in terms of documentation, please make an appointment to discuss any questions or concerns.

Accommodation 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 (Room 2, Alumni Gym, 257-2754, email address: jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

Tentative Schedule: (Note that schedule of topics may change, but exam dates are firm)

Date	Topic/Assignments
Lecture 1	Introduction
Lecture 2	Unique Aspects of the Equine Digestive Tract
Lecture 3&4	Factors Affecting Digestion and Absorption of Nutrients
Lecture 5&6	The Composition of Feeds and Feed Analyses
Lecture 7&8	Feeds and Feed Selection
Lecture 9	Methods of Determining Nutrient Requirements
Lecture 10	Requirements, Recommendations and Allowances: Practical Application
Lecture 11	Maintenance Requirements
Lecture 12	Body Weight and Body Condition in Horses
Lecture 13	Feeding the Idle and Recreational Horse
Lecture 14	Mid-term Exam
Lecture 15	Exercise Physiology
Lecture 16&17	Feeding for Performance
Lecture 18	Nutrition and Reproductive Efficiency
Lecture 19&20	Feeding the Pregnant Mare
Lecture 21&22	Feeding the Lactating Mare and Nursing Foal
Lecture 23	Equine Growth
Lecture 24&25	Feeding the Growing Horse
Lecture 26&27	Special Needs Horses
Lecture 28	Review
Final Exam	During Finals Week according to UK Schedule

