Proposal Form For Addition And Revision Of Courses

1. Proposing College / School: Agriculture
   Department: Animal Sciences

2. Course Prefix and Number: ANSC 3410
   3. Effective Term: Fall 2015

4. Course Title: Animal Metabolism and Nutrition
   Abbreviated Title (30 characters or less): Animal Metabolism and Nutr.

5. Requested Action:
   - [ ] Renumber a Course
   - [ ] Add a Course
   - [ ] Revise a Course

6. Course Credit:
   Contact/Group Hours: 3
   Scheduled Type: Lecture
   Weekly or Per Term?: weekly
   Credit Hours: 3
   Anticipated Enrollment: 100

   Maximum Hours (Repeatability): 3
   Total Credit Hours: 3

7. Grading Type:
   - [ ] Regular (ABCDF)
   - [ ] Satisfactory/Unsatisfactory (S/U)
   - [ ] Audit

8. Prerequisites/Corequisites:
   CHEM 2030 or 2070, and BIOL 1030 (or equivalent courses)

9. Restrictions: List specific restriction in space above.
   - [ ] College
   - [ ] Major
   - [ ] Standing
   - [ ] Degree

10. Course Description:
    (20 Words or Less; exactly as it should appear in the Bulletin)
    Principles of animal nutrition and nutrient metabolism and a study of nutrients and their utilization by animals.

11. May Count Either:
    [ ] or [ ]
    (Indicate if this particular course cannot be counted for credit in addition to another)

12. Affected Program(s):
    (Respond “N/A” if not included in any program; attach memorandum if more space is required)
    | Program Type | Program Title | Requirement or Elective? |
    |--------------|---------------|--------------------------|
    | Major        | B.S. in Animal Sciences (all options) | Required |
    | See attached memo |

13. Overlapping or Duplication of Other Units' Offerings:
    (If course is included in any other degree program, is used as an elective frequently by other unit(s), or is in an area similar to that covered by another college/school, attach correspondence with relevant unit)
   - [ ] Applicable
   - [ ] Not Applicable
### 14. Justification:

This is the first of two 3-credit hour courses (ANSC-3410 and 3420) proposed as a sequence to replace the current "all-in-one" ANSC-3400 Animal Nutrition course which no longer meets the needs of our graduates. This course will better integrate foundational concepts from animal biology, organic chemistry and biochemistry and will bolster student understanding of intermediary metabolism in animals.

(Include a concise, yet adequate rationale for the addition/revision of the course, citing accreditation, assessments (faculty, graduate, and/or external) where applicable)

### 15. Resources:

Between the two proposed courses, one additional classroom will be needed, but space is currently available within our room assignment region.

(Indicate whether existing resources such as library materials, classroom/ laboratory space, and faculty appointments are adequate to support the proposed addition/revision; if additional resources are required, indicate how such needs will be met, referencing the appropriate level of authorization -- i.e.: Dean -- where necessary; if no additional resources or shifting of resources will be necessary, respond "Not Applicable")

### 16. Student Learning Outcomes:

Upon completing this course, undergraduate students should be able to:

1. Define the major terminologies used in animal nutrition.
2. Name the essential nutrients for animals and explain the importance of these nutrients.
3. Compare and contrast the functional anatomy of the gastrointestinal systems of ruminant and non-ruminant species.
4. Understand various enzymatic and metabolic processes involved in nutrient digestion and metabolism.
5. Understand the metabolic interrelationships among carbohydrates, fats, and proteins in the fed state, between meals (basal state), starved state.

(State in measurable terms (reflective of course level) what students should be able to do when they have completed this course)

### 17. Course Content Outline:

1. Introduction and review of general concepts of nutrition and metabolism
2. Common feedstuffs and nutrient sources
3. Nutrients and principles underlying analyses of nutrients
4. Modern methods and technologies for nutrient analyses
5. Comparative digestion and absorption
6. Anatomy and physiology of the digestive tract
7. Regulation of digestion and nutrient absorption
8. Enzymes required in the digestive and metabolic processes
9. Properties and functions of water
10. Carbohydrates: classification, digestion, absorption and metabolism
11. Lipids: classification, digestion, absorption and metabolism
12. Proteins: classification, digestion, absorption and metabolism
14. Vitamins: classification, digestion, absorption and metabolism
15. Interrelationships between feed energy and metabolic reactions, metabolic disorders and fasting

(Final)

(Provide a comprehensive, week-by-week breakdown of course content, including assignment due dates)

### 18. Assignments / Projects:

Lecture exams and quizzes will be in traditional format including a mixture of multiple-choice, matching, true-false, fill-in-the-blank and short-answer essay style questions that will focus on Student Learning Outcomes (see above). Quizzes given between exams are intended to help students keep up with the lecture material between exams but will also be designed with more emphasis on fill-in-the-blank and short-answer essay questions where students must express their working knowledge and their understanding and application of concepts in their own words.

(List all quizzes, projects, reports, activities and other components of the course grade -- including a brief description of each assignment that clarifies its contribution to the course's learning objectives)

### 19. Rubric and Grading Scale:

The final course grade will be based on a possible 550 points according to the following distribution:

- 6 quizzes worth 20 points each (drop lowest) = 100 points
3 hour exams (worth 100 points each) = 300 points
Final comprehensive exam = 150 points
90-100% = A
80-89% = B
70-79% = C
60-69% = D
Below 60% = F

(List all components of the course grade -- including attendance and/or participation if relevant -- with point totals for each; indicate point totals and ranges or percentages for grading scale; for S/U grading, detail performance expectations for a passing grade)

20. Justification for Graduate Credit: Not applicable

(Include a brief statement explaining how the course meets graduate educational standards (i.e.: rigorous standards for evaluation, development of critical thinking and analytical skills, etc.))

(Included below are standard statements regarding course policies. If necessary, a statement may be altered to reflect the academic policies of individual faculty members and/or the academic unit or department, provided that there is no conflict with the Student Policy eHandbook, Faculty Handbook, or any existing university policy.)

POLICY STATEMENTS

Attendance: Although attendance is not required, students are expected to attend all classes, and will be held responsible for any content covered in the event of an absence.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student's immediate family, the death of a member of the student's immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoena for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact the instructor in advance of the absence to request permission. The instructor will weigh the merits of the request, and render a decision. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please consult the Student Policy eHandbook for more information on excused absences.

Make-Up Policy: Arrangement to make up a missed major examination (e.g.: hour exams, mid-term exams) due to properly authorized excused absences must be initiated by the student within one week of the end of the period of the excused absence(s). Except in unusual circumstances, such as the continued absence of the student or the advent of university holidays, a make-up exam will take place within two weeks of the date that the student initiates arrangements for it. Except in extraordinary circumstances, no make-up exams will be arranged during the last three days before the final exam period begins.

Academic Honesty Policy: All portions of the Auburn University student academic honesty code (Title XII) found in the Student Policy eHandbook will apply to university courses. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

Disability Accommodations: Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 944-2086 (VITT).
Date: February 24, 2014

To: Whom It May Concern

From: Dr. Dale A. Coleman, Undergraduate Program Officer

Subject: Proposed Nutrition Courses and Vet School Admission Requirements

We are proposing to replace the current single animal nutrition course:
ANSC-3400 Animal Nutrition (4 credit hours)
with the following two courses:
ANSC-3410 Animal Metabolism and Nutrition (3 credit hours)
ANSC-3420 Applied Animal Nutrition and Feeding (3 credit hours).

Since Auburn’s College of Veterinary Medicine requires applicants for admission to successfully complete a three credit hour undergraduate animal nutrition course, and since they have accepted ANSC-3400 in the past to meet this requirement, copies of the two proposed courses were shared with Dr. Dan Givens, Associate Dean of Academic Affairs, AU College of Veterinary Medicine. Dr. Givens responded that the proposed ANSC-3420 course would meet their requirement. Since ANSC-3410 is proposed as a pre-requisite for ANSC-3420, we have accommodated both ANSC-3410 and 3420 (6 credit hours) in our Animal Sciences Pre-Vet Option (ANPV).

If this proposal is approved, other academic units on campus offering a Pre-Vet Option directed toward admission to Auburn’s College of Veterinary Medicine (including the Department of Poultry Science, the School of Fisheries, Aquaculture and Aquatic Sciences, and the College of Sciences and Mathematics) would be advised to consider replacing the current animal nutrition course in their Pre-Vet Options with the two proposed courses.
Dear Kevin:

Here is verification that CoAGs Dean's office was in contact with CoSAM regarding this matter. Read the eMail by UCC member Dr. Hetzer exhibiting the fact that Dr. Cammarata (Assoc Dean, CoSAM) had seen this proposal. In fact Dr. Patterson circulated this proposal to the Vet School and CoSAM. The Vet School faculty liked it real well as they need nutrition but really have no formal nutrition courses in the professional program. As you know we are primarily interested in the proper course work for ANSC students; further the nutrition course are not necessarily part of a degree/ major in Biology..they are pre-vet prerequisites.

By the way Dr. Dale Coleman will be the CoAG UCC representative, Dr. Muntifering will speak to the need for nutrition biology as well as application courses. It is a little bit like Calc 1 and then Calc 2.

Werner

-----Original Message-----
From: Georg Hetzer
Sent: Monday, April 14, 2014 4:20 PM
To: Werner Bergen
Subject: ANSC3410, 3420

Dear Werner,

Vince Cammarata contacted me regarding ANSC3410, 3420. Replacing ANSC3400 (4hrs) by two three hour courses would run contrary to the Provost’s intent of a 120 hrs limit for majors. COSAM's preVet options have already 121 and 122 hours.

I understand from the message attached to the proposal that ANSC3400 (4hrs) will still be offered. Is that the intention? But, since the new courses affect several curricula, would it not be better if we could get an understanding on the curricula issues at the same time.

Best regards,
Georg
Kevin,

Recall that I attended the April 17 UCC meeting to represent the College of Agriculture (in Werner Bergen’s absence) and to present a combination of proposals to reorganize our Department’s offering of nutrition courses (replace current ANSC-3400 with proposed ANSC-3410 and 3420). My take-home messages from that meeting were:

1) The Associate Dean’s for Colleges/Schools whose Pre-Vet programs would be affected by this change (CoSAM & Forestry) should meet to address any concerns, and
2) Information needed to be added to Item #18 on the New Course Proposal Form for both of the proposed new courses (rather than the “N/A” originally reported).

To those ends:

1) The following individuals met on May 1st to discuss the Animal Sciences nutrition course proposal:
   a. Dr. Paul Patterson, Associate Dean, College of Agriculture
   b. Dr. Vince Cammarata, Associate Dean, College of Sciences & Mathematics
   c. Dr. Sharon Roberts, Undergraduate Program Officer, College of Sciences & Mathematics
   d. Dr. Ed Loewenstein, Associate Dean, School of Forestry & Wildlife Sciences
   e. Dr. Gary Hepp, Undergraduate Program Officer, School of Forestry & Wildlife Sciences
   f. Dr. Dan Givens, Associate Dean, College of Veterinary Medicine
   g. Dr. Wayne Greene, Head, Department of Animal Sciences
   h. Dr. Steve Schmidt, proposed instructor for the new ANSC-3410 course
   i. Dr. Russ Muntifering, proposed instructor for the new ANSC-3420 course
   j. Myself, Undergraduate Program Officer, Department of Animal Sciences

   After open discussion, I believe Drs. Cammarata and Loewenstein left the meeting with a better understanding of the pedagogical need for the change and a willingness to cooperate with the implementation of the change in their respective curricula. I have copied Drs. Greene and Patterson on this e-mail so they can offer you their perspective if requested, and you are certainly welcome to contact others who attended the above meeting representing their respective interests.

2) I have attached updated New Course Proposal Forms for both ANSC-3410 and 3420 with additional information included in Item #18 for each as requested.

If everything looks in order to you, I ask that our request to replace our current ANSC-3400 course with the proposed ANSC-3410 and ANSC-3420 course sequence be placed back on the UCC agenda for final consideration.

Thank you for all of your help with this. Please let me know if you have any further questions or concerns.

Dale Coleman
colemda@auburn.edu
334-844-1512
Dr. Relihan,

Drs. Greene, Loewenstein, Cammarata and I met today to discuss the Animal Sciences proposals for ANSC 3410 and ANSC 3420, along with the current animal nutrition course, ANSC 3400. The Department of Animal Sciences has agreed to continue offering ANSC 3400 as a spring semester course offering into the foreseeable future to meet the needs of students in the College of Sciences and Mathematics and Forestry and Wildlife Sciences. ANSC 3410 and ANSC 3420 will, subject to approval by UCC, be the required courses for Animals Sciences majors. It is understood that the College of Veterinary Medicine will continue to accept ANSC 3400 as an animal nutrition course for veterinary school applicants. Additionally, CVM will accept ANSC 3420 as an animal nutrition course for veterinary school applicants, once it is approved and offered. The College of Agriculture requests that the University Curriculum Committee proceed with its review and decision on the disposition of the proposals for ANSC 3410 and ANSC 3420. I believe the faculty in the Department of Animal Sciences has some very sound reasons for proposing their two course sequence for Animal Sciences students. At the same time, this department is happy to help meet the needs of students in other majors.

Respectfully,

Paul Patterson

From: Constance Relihan
Sent: Thursday, September 11, 2014 5:09 PM
To: Paul Patterson; Vincenzo Cammarata; Edward Loewenstein; Dan Givens; Wayne Greene; Dale Coleman; Werner Bergen; Nedret Billor; Wayde Morse
Cc: Kevin Snyder
Subject: UCC discussion of the proposal to create ANSC 3410 & ANSC 3420

Dear colleagues—

I would like to summarize for you the results of the UCC’s discussion of the ANSC 3410 and ANSC 3420 proposal today. After considerable discussion about the courses themselves and their impact on the pre-vet curriculum models of COSAM and SFWS students, a motion was made and seconded to approve the course proposals. After further discussion, the motion was defeated: 3 votes in favor of the motion; 6 against. The discussion included my sharing with the Committee an email I received from Dr. Cammarata after I requested that he and Dr. Loewenstein indicate that they supported the proposal. Their email stated that they felt that they had “no alternative but to acquiesce to” the change, despite feeling that it would force them to recommend that students take an online course from another institution instead of taking the 6 credit hr. sequence to be offered.

The UCC hopes that further discussion will occur among the three colleges offering pre-Vet programs
and the Vet School, and that a resolution will be reached that both encourages Animal Sciences to construct its curriculum as it sees fit and does not require pre-vet curricula in the other colleges to increase the number of hours required for their students. Options might include: continuing to offer ANSC 3400 for pre-vet students from COSAM/SFWS only (with funding coming from those units); developing a plan whereby COSAM and/or SFWS develops a 4 hr. course to meet their pre-Vet students’ needs (as long as one of those units has qualified faculty members); deleting another element of the COSAM and SFWS pre-vet curricula to accommodate the increased hours caused by the creation of 3410-3420. There may certainly be other options. Depending upon which option you agree upon, both COSAM and SFWFS will probably need to restructure their curriculum models and submit them to the UCC for approval.

The UCC would like to reconsider the ANSC 3410-3420 proposal by November 2014, to ensure that there will be time for all units to move their revised curriculum models through the UCC process in time to be included in the Bulletin for the 2015-2016 year.

I hope that you will be able to work together to craft a solution prior to that date. Kevin Snyder and I would be happy to assist in any way that seems useful.

Constance C. Relihan, Ph.D.
Associate Provost for Undergraduate Studies
Professor of English
Auburn University
334-844-4900
Dr. Relihan,

The School of Forestry and Wildlife Sciences supports acceptance of the course proposals for ANSC 3410 and 3420. We greatly appreciate their willingness to continue offering ANSC3400 into the foreseeable future.

Cheers,

Ed

Edward F. Loewenstein, PhD
Associate Dean of Academic Affairs
School of Forestry and Wildlife Sciences
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Auburn University, AL 36849-5418

loewenstein@auburn.edu
334-844-1069 (office)
334-844-1084 (fax)
Dr. Relihan: The College of Sciences and Mathematics supports the acceptance of the course proposals of ANSC3410 and ANSC3420. We feel that Animal Sciences has ample justification for the development of the new curriculum.’

Best Regards,

Vince

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