Proposal Form For Addition And Revision Of Courses

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

2. Course Prefix and Number: ANSC 4450

3. Effective Term: 2013

4. Course Title: Equine Nutrition
   Abbreviated Title (30 characters or less):

5. Requested Action:
   - ☐ Renumber a Course
   - ☐ Add a Course
   - ☑ Revise a Course
   Current Course Number:
   Proposed Course Number:
   Type of Revision:
   credit hours

6. Course Credit:
<table>
<thead>
<tr>
<th>Contact/Group Hours</th>
<th>Scheduled Type (e.g.: Lab, Lecture, Practicum, Directed Study)</th>
<th>Weekly or Per Term?</th>
<th>Credit Hours</th>
<th>Anticipated Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Hours (Repeatability): 3</td>
<td>lecture</td>
<td>weekly</td>
<td>3</td>
<td>20</td>
</tr>
</tbody>
</table>

   Total Credit Hours: 3

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

8. Prerequisites/Corequisites:
   Use "P:" to indicate a prerequisite, "C:" to indicate a corequisite, and "PI/C:" to indicate a prerequisite with concurrency.
   P: ANSC 3400

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 digestive physiology, nutrition and metabolic disorders unique to the horse with special emphasis on nutritional needs of the equine athlete.

11. May Count Either:
   - ☑ Program Type
   - ☑ Program Title
   - ☐ Requirement or Elective?
   (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)
<table>
<thead>
<tr>
<th>Program Type</th>
<th>Program Title</th>
<th>Requirement or Elective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major</td>
<td>Animal Sciences - Equine Science Option</td>
<td>Elective</td>
</tr>
</tbody>
</table>

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:  
After five years of teaching this course, it is the faculty’s assessment that two lecture hours are not sufficient to cover this subject in adequate detail for a 4000-level course and be of benefit for a student who will be working in industry upon graduation.

(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:  
No additional resources will be necessary

(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:  
- Describe aspects of digestive physiology and nutrition unique to equids
- Identify quality feedstuffs and their appropriate inclusion in the diets of equids
- Interpret results of laboratory analyses of feedstuffs and use the results in the formulation of diets for horses
- Describe nutrient requirements of horses at critical points in the life cycle and during special circumstances

(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:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction; terminology review; digestive system</td>
</tr>
<tr>
<td>2</td>
<td>Water; energy; carbohydrates; HOMEWORK 1</td>
</tr>
<tr>
<td>3</td>
<td>Fats; protein; HOMEWORK 2</td>
</tr>
<tr>
<td>4</td>
<td>Vitamins &amp; minerals; EXAM 1</td>
</tr>
<tr>
<td>5</td>
<td>Forages, pasture management</td>
</tr>
<tr>
<td>6</td>
<td>Forage testing, poisonous plants; HOMEWORK 3</td>
</tr>
<tr>
<td>7</td>
<td>Non-forage feedstuffs</td>
</tr>
<tr>
<td>8</td>
<td>Nutrient analysis; diet evaluation; HOMEWORK 4</td>
</tr>
<tr>
<td>9</td>
<td>Commercial feeds &amp; supplements; EXAM 2</td>
</tr>
<tr>
<td>10</td>
<td>Diet formulation</td>
</tr>
<tr>
<td>11</td>
<td>Feeding management; HOMEWORK 5</td>
</tr>
<tr>
<td>12</td>
<td>Idle horses; performance horses</td>
</tr>
<tr>
<td>13</td>
<td>Broodmares, foals and growing horses</td>
</tr>
<tr>
<td>14</td>
<td>Nutritional management of metabolic disorders</td>
</tr>
<tr>
<td>15</td>
<td>Special cases in equine nutrition; PRESENTATIONS</td>
</tr>
<tr>
<td></td>
<td>FINAL EXAM</td>
</tr>
</tbody>
</table>

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

18. Assignments / Projects:  
Exams: Three exams will be given, covering information from lecture discussions, text reading and handouts. Because course concepts build on previous lecture topics, all exams can be considered cumulative.

Homework: Five homework assignments will be given at various points in the semester. Topics may range from short essay questions to diet formulation problems. Assignments are to be worked on and completed independently.

Team Presentation: Research in equine nutrition is ongoing, and continues to change the way we think about feeding horses of all ages and purposes. Pairs of students will present a 10-15 minute summary of a refereed research paper (or group of papers) published within the last 5 years. The talk should include an introduction to the topic, brief discussion of experimental methodology, and continue through the authors’ results and conclusions. The focus should be on how the research applies to real-world horse management situations. Topic, copy of article and names of
partners are due March XX, and is worth 5 of the 50 points for this assignment. The presentations will be given the last week of classes. Journal sources and presentation format will be discussed in further detail in class.

(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:

<table>
<thead>
<tr>
<th>Exams</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm 1</td>
<td>100 points</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>100 points</td>
</tr>
<tr>
<td>Final</td>
<td>100 points</td>
</tr>
<tr>
<td>Homework (5 x 10 points each)</td>
<td>50 points</td>
</tr>
<tr>
<td>Team Presentation</td>
<td>50 points</td>
</tr>
</tbody>
</table>

Grades will be calculated as a percentage of 400 possible points. Letter grades will be assigned according to the standard 90-80-70-60 scale.

(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.))

(Include 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 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, 1229 Haley Center, 944-2098 (V/TT).
Approvals

2-21-13
Date

4-8-13
Date

4-9-03
Date

Contact Person: Dale A. Coleman
E-Mail Address: colemda@auburn.edu
Telephone: 844-1512
Fax: 844-1519
ANSC 4450 Equine Nutrition
Spring 2013

Instructor:  
Betsy Wagner, PhD, PAS  
Office hours: most mornings,  
229 Upchurch Hall  
or by appointment  
844-7503  
elw0001@auburn.edu

Prerequisites:  ANSC 1000, BIOL 1030, ANSC 3400

Texts:
Blackwell Publishing. 446 pp., paperback (required).

ISBN 0-309-10212-X. National Academies Press. 360 pp., hardcover. This text is  
strongly recommended, especially for those interested in working in the veterinary,  
research or feed industries. Class discussions will draw from current edition as  
appropriate. Found at http://books.nap.edu/ and other online bookstores.

Handouts:  
Additional course materials will be made available through Canvas or distributed in class.  
Consider these to be as valuable as your notes and text book in understanding the  
material and preparing for exams.

Course Description:  
Principles of digestive physiology and nutrition unique to the equine; selection of quality  
feedstuffs for horses; nutrient requirements of horses at critical points in the life cycle and  
for various physiological process, work and athletic performance; scientific principles of  
diet formulation and practical feeding systems; nutritionally-related metabolic disorders.

Grading:  
Exams  
Exam 1, Thursday, February 7 100 points  
Exam 2, Thursday, March 7 100 points  
Exam 3, Monday, April 29, 8 a.m. 100 points  
Homework (5 x 10 points each) 50 points  
Team Presentation (Topic due Feb. 28, presentations Apr.23 & 25) 50 points

Grades will be calculated as a percentage of 400 possible points. Letter grades will be  
assigned according to the standard 90-80-70-60 scale.

Exams:  Three exams will be given, covering information from lecture discussions, text  
reading and handouts. Because course concepts build on previous lecture topics, all  
exams can be considered cumulative.
**Homework:** Five homework assignments will be given at various points in the semester. Topics may range from short essay questions to diet formulation problems. Assignments are to be worked on and completed independently.

**Team Presentation:** Research in equine nutrition is ongoing, and continues to change the way we think about feeding horses of all ages and purposes. Pairs of students will present a 10-15 minute summary of a refereed research paper (or group of papers) published within the last 5 years. The talk should include an introduction to the topic, brief discussion of experimental methodology, and continue through the authors’ results and conclusions. The focus should be on how the research applies to real-world horse management situations. **Topic, copy of article and names of partners are due Thursday, February 28,** and is worth 5 of the 50 points for this assignment. The presentations will be given the last week of classes. Journal sources and presentation format will be discussed in further detail in class.

**General Class Rules and Policies**
1. Show up to class. I will worry about you. When possible, email me in advance of your absence.
2. Cell phones must be off or silenced during class. Texting during class is not permitted.
3. Permission for making up missed work or exams will be granted only for University authorized absences. You will have one week from the day you return to class to present verification of your absence and make up missed work. Instructor reserves the right to administer different versions of make-up exams.
4. Late assignments will automatically be assessed a penalty of 10% of the total possible points for each weekday they are late. For example, an assignment valued at 50 points will be worth a maximum of 45 points when one day late, 40 points when two days late, 25 points when five days late, etc.
5. Questions concerning quiz and exam grades should be asked during the next class period after getting the quiz or exam returned to you. Waiting until the end of the semester is stressful on everybody.
Academic Honesty Code
Students, faculty and staff have the responsibility to help enforce the Student Academic Honesty Code. Students are responsible for reading and understanding Auburn University’s policies and procedures regarding academic misconduct and its prevention. This information is available through the Office of the Provost, and can be accessed at http://www.auburn.edu/academic/provost/academicHonesty.html. Cheating and plagiarism are considered serious offenses in the class, and students are expected to pursue their academic work with honesty and integrity. If you have any concerns or questions regarding academic dishonesty, please make an appointment to see me during office hours. I would rather spend my time being helpful and proactive than something else.

During exams, cell phones are to be turned off completely and stored in your bookbag (at home would be better). All personal belongings (coats, books, bags, etc.) will be placed at the front or side of the room for you to pick up after turning in the exam. Please respect your classmates by making the test fair for everyone.

Disability Accommodations
Students who need accommodations are asked 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. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844-2096 (V/T).

Diversity Statement
Diversity at Auburn University encompasses the whole of human experience and includes such human qualities as race, gender, ethnicity, physical ability, nationality, age, religion, sexual orientation, economic status, and veteran status. These and other socially and historically important attributes reflect the complexity of our increasingly diverse student body, local community, and national population. Diversity is a core value at Auburn University. The Office for Diversity and Multicultural Affairs strives to offer a comprehensive range of exemplary educational programs that foster and sustain an environment that promotes academic excellence, respects differences, and accepts inclusiveness. Auburn University recognizes and values the considerable educational benefits emanating from diversity as we prepare our students for life and leadership in a multicultural world. Students who interact with and learn about people from a variety of backgrounds are more apt to understand, appreciate, and excel in the community they inhabit. In this context, diversity is aligned with Auburn University's land grant mission of providing its students with a superior education in service to the needs of Alabama, the nation, and the world.
ANSC 4450 Lecture Schedule (Tentative)

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 10</td>
<td>Introduction; terminology review</td>
<td>Ch. 1</td>
</tr>
<tr>
<td>2</td>
<td>15, 17</td>
<td>Digestive system; water</td>
<td>Ch. 1</td>
</tr>
<tr>
<td>3</td>
<td>22, 24</td>
<td>Energy; carbohydrates &amp; fats</td>
<td>Ch. 1</td>
</tr>
<tr>
<td>4</td>
<td>29, 31</td>
<td>Protein; vitamins</td>
<td>Ch. 1, 3</td>
</tr>
<tr>
<td>5</td>
<td>Feb 5, 7</td>
<td>Minerals, <strong>EXAM 1 Thursday, Feb 2</strong></td>
<td>Ch. 2</td>
</tr>
<tr>
<td>6</td>
<td>12, 14</td>
<td>Forages, poisonous plants</td>
<td>Ch. 4, 5, 19</td>
</tr>
<tr>
<td>7</td>
<td>19, 21</td>
<td>Non-forage feedstuffs</td>
<td>Ch. 4</td>
</tr>
<tr>
<td>8</td>
<td>26, 28</td>
<td>Nutrient analysis; Farm Day (<strong>Topic due 2/28</strong>)</td>
<td>Ch. 4</td>
</tr>
<tr>
<td>9</td>
<td>Mar 5, 7</td>
<td>Reading feed tags; <strong>EXAM 2 Thurs., March 7</strong></td>
<td>Ch. 6</td>
</tr>
<tr>
<td>10</td>
<td>12, 14</td>
<td><strong>Spring Break</strong></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>19, 21</td>
<td>Diet evaluation, formulation,</td>
<td>Ch. 6</td>
</tr>
<tr>
<td>12</td>
<td>26, 28</td>
<td>Feeding management</td>
<td>Ch. 8, 9</td>
</tr>
<tr>
<td>13</td>
<td>Apr 2, 4</td>
<td>Idle horses; performance horses</td>
<td>Ch. 10, 11</td>
</tr>
<tr>
<td>14</td>
<td>9, 11</td>
<td>Broodmares, foals and growing horses</td>
<td>Ch. 13, 15</td>
</tr>
<tr>
<td>15</td>
<td>16, 18</td>
<td>Nutritional management of metabolic disorders</td>
<td>Ch. 17</td>
</tr>
<tr>
<td>16</td>
<td>23, 25</td>
<td>Presentations</td>
<td></td>
</tr>
</tbody>
</table>

Apr 29 (Mon) **FINAL EXAM 8 a.m.**

Other special dates & opportunities:

January 19-20, Alabama Horse Fair, Montgomery AL (need volunteers both days, especially Sunday; see Dr. Wagner)
March 22-24, FEI-level horse trial at Poplar Place Farm, Hamilton GA (need volunteers to check vitals on cross country horses that Saturday)
March 23-24, NATRC sanctioned competitive trail ride, Troy AL (need volunteers both days to check vitals)
May 16-19, FEI-level horse trial at Chattahoochee Hills, Newnan GA (need volunteers to check vitals on cross country horses that Saturday)