

Add Course Request

Submitted on: 2013-03-21 15:16:07

1. COURSE SUBJECT	ANSC
2. COURSE NUMBER (OR PROPOSED NUMBER)	4312W
3. COURSE TITLE	Scientific Writing in Adv Animal Nutrition
4. INITIATING DEPARTMENT or UNIT	Department of Animal Science
5. NAME OF SUBMITTER	Sheila M Andrew
6. PHONE of SUBMITTER	Phone: +1 860 486 0803
7. EMAIL of SUBMITTER	Email: sheila.andrew@uconn.edu
8. CONTACT PERSON	Gary Kazmer
9. UNIT NUMBER of CONTACT PERSON (U-BOX)	4040
10. PHONE of contact person	Phone: 486-1011
11. EMAIL of of contact person	Email: gary.kazmer@uconn.edu
12. Departmental Approval Date	01/25/13
13. School/College Approval Date	02/01/13
14. Names and Dates of additional Department and School/College approvals	
15. Proposed Implementation Date	Term: Fall, Year: 2013
16. Offered before next printed catalog is distributed?	Yes
17. General Education Content Area	
18. General Education Skill Code (W/Q). Any non-W section?	W Yes
19. Terms Offered	Semester: Fall Year: Every_Year
20. Sections	Sections Taught: 1
21. Student Number	Students/Sections: 20
22. Clarification:	

23. Number of Credits	1 if VAR Min: Max: credits each term
24. INSTRUCTIONAL PATTERN One 50-minute class period per week	
25. Will this course be taught in a language other than English?	Yes If yes, then name the language:
26. Please list any prerequisites, recommended preparation or suggested preparation: prerequisites: ENGL 1010 or 1011 or 3800; Co.requisite: ANSC 4311, Advanced Animal Nutrition	
27. Is Instructor, Dept. Head or Unit Consent Required?	No
28. Permissions and Exclusions: Open only to Juniors or higher	
29. Is this course repeatable for credit?	No If yes, total credits allowed: Allow multiple enrollments in same term?
30. Grading Basis	Graded
31. If satisfactory/unsatisfactory grading is proposed, please provide rationale :	
32. Will the course or any sections of the course be taught as Honors? AsHonors	
33. Additional Details:	
34. Special Attributes:	
35. REGIONAL CAMPUS AVAILABILITY: This course requires co-enrollment in ANSC 4311, Food Microbiology and Safety taught only at the Storrs campus. As such it will not be taught at regional campuses	
36. PROVIDE THE PROPOSED TITLE AND COMPLETE CATALOG COPY: ANSC 4312W. Scientific Writing in Advanced Animal Nutrition Fall. One credit. One class period. Prerequisite: ENGL 1010 or 1011 or 3800; Open to juniors or higher. Co-requisite: ANSC 4311, Advanced Animal Nutrition A writing-intensive class integrated with course content in ANSC 4311, Advanced Animal Nutrition.	
37. RATIONALE FOR ACTION REQUESTED a. This course provides an opportunity for students to critically review the literature related to animal nutrition. The course is designed to develop the students' critical thinking and writing skills. b. n/a	

- c. Enrollment is restricted to junior or senior level students. ENGL 1010, 1011 or 3800 is required as a prerequisite so that students have a basic understanding of the writing process.
- d. None. ENGL 1010, 1011, or 3800 is already required by students in the animal science major; requiring one of these classes as a prerequisite will have no effect on the number of students enrolling in those classes.
- e. None.
- f. None.
- g. None.
- h. None.
- i. n/a
- j. n/a

38. SYLLABUS:

Online URL: ([https://web2.uconn.edu/senateform/request/course_uploads/kcp13001-1367264358-ANIMAL SCIENCE 4312W appended to ANSC 4311 final.docx](https://web2.uconn.edu/senateform/request/course_uploads/kcp13001-1367264358-ANIMAL%20SCIENCE%204312W%20appended%20to%20ANSC%204311%20final.docx))

39. Course Information: ALL General Education courses, including W and Q courses, MUST answer this question

For all General Education courses:

This course will require students to complete the writing process in a systematic, logical manner. This process will be integrated into the content covered in ANSC 4311, Advanced Animal Nutrition by having students investigate a topic of interest which is directly related to the information covered in the course.

Topics to be covered include (but are not restricted to): considering your audience, using Library resources and electronic databases, Developing and organizing an outline, determining the value of sources, how to critically review literature, plagiarism, citations, and peer review.

40. Goals of General Education: All Courses Proposed for a Gen Ed Content Area MUST answer this question

n/a

41. Content Area and/or Competency Criteria: ALL General Education courses, including W and Q courses, MUST answer this question.: Specific Criteria

a. Arts and Humanities:

n/a

b. Social Sciences:

n/a

c. Science and Technology:

n/a

i. Laboratory:

n/a

d. Diversity and Multiculturalism:

n/a

43. International:

n/a

e. Q course:

n/a

f. W course:

This course will require students to complete the writing process in a systematic, logical manner. Students will submit 15 pages of reviewed and revised material focusing on a subject of the student's choice (related to class material). The development of the paper will occur in stages throughout the semester, starting with choosing and justifying a topic, proceeding through an outline stage and first draft stage, and culminating with the submission of the final paper. Peer review, as well as instructor review, will be used throughout the process. Failure to pass this course will result in failure to pass the co-requisite course (ANSC 4311, Advanced Animal Nutrition). Students will be allowed to choose a topic related to course content, in which they are interested and wish to learn more about. Students will be required to submit 15 pages of reviewed and revised material. While this course will be graded separately from the co-requisite course, failure to pass this course will result in failure of the co-requisite course as well. Instruction will be provided in a variety of ways, including formal instruction, individual conferences and written commentary. Revision of the initial outline of the review will be allowed based on comments from the instructor to improve organization, amount of material covered, etc. A draft of the review paper will be edited by the instructor and will be peer reviewed for content as well. Students will have an opportunity to respond to these reviews in writing and through the revision of the initial draft. Students will gain experience in the following aspects of writing; considering their audience when choosing a topic, using library resources and electronic databases, developing and organizing an outline, determining the value of sources, critically reviewing literature, plagiarism, citations, and understanding the peer review process.

42. RESOURCES:

Does the department/school/program currently have resources to offer the course as proposed
YES

If NO, please explain why and what resources are required to offer the course.

43. SUPPLEMENTARY INFORMATION:

ADMIN COMMENT:

Senate approved W 11.11.13. SenCCAppr_10/16/13kcp. Changes ApprbyTD_051613kcp.
NewSyllabus_042913KCP. GEOC/WAppr_041713KCP. Revised_041613KCP.
NewW_032113KCP.

ANIMAL SCIENCE 4312W
SCIENTIFIC WRITING IN ADVANCED ANIMAL NUTRITION

Instructor: Sheila Andrew
Office: 202 George White
Phone: 860 486-0803
Email: Sheila.andrew@uconn.edu
Office hours: by appointment

Course Objectives:

To provide students an opportunity to investigate a specific topic in animal nutrition that is of interest to them. Also, students will gain experience in the process of scientific writing within the field of animal nutrition which will include review of the pertinent peer-reviewed literature and development of a science-based written document that will be peer-reviewed.

Class format:

Discussion Tuesday 3:00-3:50 PM location TBA

Grading: There are no examinations. Grades will be determined as follows:

Topic and justification	5%
Outline	15% (can be resubmitted for re-grade)
First submission of paper	20%
Peer review	10%
Final submission of paper	35%
Abstract of paper	5%
Class participation-attendance	10%

- Late submissions will be penalized.
- If anyone required special assistance, please see the instructor so arrangements can be made.

Final grades

Final Grades

A	≥ 92
A-	89-91.9
B+	86-88.9
B	82-85.9
B-	79-81.9
C+	76-78.9
C	72-75.9
C-	69-71.9
D+	66-68.9
D	62-65.9
D-	59-61.9
F	≤58.9

ANSC 4312W

Tentative course outline

Lecture	Topic
1	Introduction
2	How to start: topic selection/target audience, examples
3	Topics ideas/ beginning research process Use of electronic databases; PubMed, Agricola, etc.
4	Objectives and outlines Topic selection and justification due
5	Visit the library
6	Peer-reviewed versus internet versus popular press writing Outline due
7	Quoting, paraphrasing, and plagiarism Citations, format and when to use them Outline returned
8	NO Class spring break
9	Academic scholarship and peer review First submission due
10	How to revise: self-evaluation versus peer review Peer-review started
11	Individual meetings to critique papers First submission returned
12	Individual meetings to critique papers no scheduled class
13	Individual meetings to critique papers not scheduled class
14	Wrap-up Final submission due

This course requires a final submission of a 15-page (double-spaced; 12 pt font with 1" margins all around) review paper. The paper must contain at least 10 peer-reviewed articles for citations. The citation page does not count towards the 15-page written material. The subject is your

choice, but will be approved by the instructor to ensure that peer-reviewed articles are available on the topic. The relationship between the topic chosen and the course content must be justified.

The goal is for the student to investigate an area of animal nutrition that is of personal interest. This topic should be an area where the student would like to attain a more in-depth knowledge.

The development of the paper will occur in several steps:

1. Justification of the topic and its relation to the overall course content and that there are peer-reviewed articles to support the topic. Please submit as one or two paragraphs and the choice of topic must be approved by the instructor.
2. Outline of paper with 10 peer-reviewed references, including a short summary of each reference. The summary should have a logical flow of material (usually starting with the broad topic, then becoming more specific).
3. The first draft submission will be a minimum 10-15 page (double-spaced; 12 pt font with 1" margins all around) review paper. The paper must contain at least 10 peer-reviewed articles for citations. The citation page does not count towards the final 15 page written material.
4. The final submission must contain appropriate edits from the peer review and the instructor review and be 15-pages in length (double-spaced; 12 pt font with 1" margins all around). The paper must contain at least 10 peer-reviewed articles for citations. The citation page does not count towards the 15-page written material.

Advanced Animal Nutrition ANSC 4311: Credits: 3

COURSE DESCRIPTION:

A comparative study of nutritional, physiological, microbiological, immunological and biochemical aspects of digestion and metabolism in the non-ruminant and ruminant animal. Topics include digestive system structures, utilization of nutrients, energy metabolism, control of nutrient metabolism, and experimental techniques used in the study of animal nutrition. Feedstuffs appropriate to meet nutrient requirements and ration formulation across various physiological stages, growth, gestation, and lactation will be covered in this course. There will be a focus on developing critical thinking skills, reading current literature, and assimilating scientific concepts in written and oral forms. A semester of animal nutrition is required prior to taking this course.

Instructors: S. Andrew, A. Safran

Time Tues and Thurs. 10-10:50 AM

Lab/Discussion: Tues 1-3 PM

COURSE OBJECTIVES:

1. Describe ingestion and absorption of nutrients through gastrointestinal tracts of different animal species.
2. Describe nutrient usage and metabolism in the animal body. Evaluate the effect of hormones, genetics, physiological stage and age of the animal on these processes.
3. Analyze the microbial composition and location of the gut of different animal species. Determine the effects of diet, environment and genetics on variations in this population.
4. Develop an extension article applying information learned in this course and your own research.

Lectures

Lecture #	Topic
1	Comparative anatomy and digestion: Prehension, Mastication and Deglutition
2	Comparative anatomy and digestion: Glandular stomach, Forestomach (rumen)
3	Comparative anatomy and digestion: Small intestine, Large intestine, cecum
4	GI microbiology
5	Rumen/cecum microbiology
6	Rumen Fermentation: carbohydrates
7	Rumen Fermentation: Protein
8	Rumen Lipid metabolism
9	Physiology of absorption and transport of digested nutrients
10	Exam 1
11	Glucose metabolism
12	Amino acid metabolism
13	Lipid metabolism
14	Energy metabolism

15	Regulatory aspects of nutrition, Endocrinology
16	Immune function and nutrition
17	Dry matter intake, regulation and factors affecting DMI
18	Nutritional disorders
19	Nutritional needs for growth, reproduction, lactation and maintenance
20	Research techniques in nutritional research; applied and basic
21	Exam 2
22	Nutritional physiology and feeding: Companion animals
23	Nutritional physiology and feeding: Swine
24	Nutritional physiology and feeding: Beef
25	Nutritional physiology and feeding: Dairy
26	Nutritional physiology and feeding: exotic animals
27	Nutritional physiology and feeding: marine mammals
28	Careers in Animal nutrition

Text: The Ruminant Animal: Digestive Physiology and Nutrition, D.C. Church, Waveland Press, Inc.1993. ISBN: 0-88133-740-4

If there is any student in this class who has special needs because of learning disabilities or any other kinds of disabilities, please feel free to come and discuss this with the instructors.

Note: According to university-wide policies for W courses, if you are registered for the W portion of this course (ANSC 4312(proposed number)) you cannot pass this course unless you receive a passing grade for the writing portion of the course.

Lab Schedule:

1	Anatomy – plasticized tracts
2	Feed/nutrient analysis
3	Video – ruminant nutrition
4	Case study
5	Feed analysis – NDF/ DM
6	Microscope – protozoa etc.
7	Student paper presentations
8	Understanding the business of the feed mill
9	Ration balancing
10	Student paper presentations
11	Student paper presentations
12	Case study
13	Student paper presentations

14 Student presentations

Project:

Develop an educational factsheet on a nutritional topic

To be discussed in class.

Grading:	Percentage of final grade
2 exams	20% each
Quizzes	5%
Laboratory reports	10%
Project	10%
Presentations	5%
Presentation summaries	5%
Participation	5%
Final exam	20%

Final Grades

A	≥ 92
A-	89-91.9
B+	86-88.9
B	82-85.9
B-	79-81.9
C+	76-78.9
C	72-75.9
C-	69-71.9
D+	66-68.9
D	62-65.9
D-	59-61.9
F	≤ 58.9

Classroom rules of conduct:

1. Cell phones, and other electronics are to be turned off and put away during class. Laptops/tablets will be allowed during lecture for note-taking only.
2. Academic misconduct will not be permitted in any form and is a violation of the University of Connecticut Student Code. . Academic misconduct includes, but is not limited to, copying or sharing answers on exams, quizzes or assignments; plagiarism; and having someone else do your work for you. For more information, please see the student code at: http://www.dos.uconn.edu/student_code.html for details.

