

**ANSC 230**  
**Animal Feeds and Nutrition**  
Course Requirements and Outline  
Spring 2012

**Instructor Information:**

**Instructor:** Dr. Celina Johnson

**Contact Info:** Plumas Hall 210  
530-898-4147

**Office Hours:** Wednesday: 10:00 am to 2:00 pm  
By appointment as needed

**Course Goals:** Students will develop an understanding of the nutritional needs of livestock, the composition and use of different feeds, and the formulation of rations for a variety of livestock.

**Course Objectives:** Upon completion of this course, students will be able to:

- Formulate rations for various classes of livestock
- Determine nutrient requirements for various classes of livestock
- Analyze feeding programs for common livestock species
- Evaluate feeding options relative to feeding value

**Course Meeting Times and Required Material:**

**Course Meeting Times:** Lecture: Online – Blackboard Learn (expect ~2 hours per week online)  
Activity 1: Monday; 12:00 pm – 1:50 pm  
Activity 2: Monday; 2:00 pm – 3:50 pm  
Activity 3: Monday; 4:00 pm – 5:50 pm  
Activities will either meet in PLMS 303 or at the Farm – CHECK THE SYLLABUS FOR LOCATION!!!

**Required Material:**

- Blackboard Learn access
- Calculator (have at all times – cell phones are not allowed!)
- Flash drive (have at all times to save work on during activities)

**Computer Use:**

**All communication for this course will be conducted via Blackboard Learn.** This includes email communications and course announcements. It is the student's responsibility to check Blackboard Learn regularly for any announcements regarding the course.

There will be weekly information and assessments available on Blackboard Learn – it is YOUR RESPONSIBILITY to complete this component of the course!

Computer use is required for this class. Numerous spreadsheets will be used, therefore students must have access to Microsoft Excel. If a student does not have personal access to Excel, numerous computer labs on campus have Excel (including Plumas Hall). NOTE: many of the spreadsheets do not work well on the Mac, so you will need PC access (we have a great computer lab and will provide laptops during activity).

***A flash drive is REQUIRED for all activities, so that work can be saved during the activity.***

## Grading:

This course is designed to have a variety of assignments, exams, and quizzes to allow a variety of opportunities for you to make points. There is no curve, but grades will be rounded up to the nearest whole number (ex. 89.5 would round up to 90). The following is the grading scale for this class:

<b>Grading Scale:</b>			
A ≥ 93%	B ≥ 83%	C ≥ 73%	D ≥ 60%
A- ≥ 90%	B- ≥ 80%	C- ≥ 70%	F < 60%
B+ ≥ 87%	C+ ≥ 77%	D+ ≥ 67%	

<b>Points Possible:</b>	
Activities and Case Studies (12 @ 25 pts each)	300 pts
Weekly Quizzes (12 @ 25 pts each)	300 pts
Commodity price project	100 pts
Industry issues discussion project	45 pts
Video project (small teams of 3-4)	80 pts
Exams (2 @ 100 pts – Final is 150 pts)	350 pts
Research project participation - 5 feeding times x 10 pts	50 pts
Research project paper	100 pts
<b>Total points</b>	<b>1325 pts</b>

## Assignments and Activities:

### ACTIVITIES AND CASE STUDIES

Each week you will have an activity or case study for this class. Each activity/case study is worth approximately 25 points. Activities will be due at the beginning of the following week's activity. Keys will be posted online after activities are turned in so students can see how problems are solved.

### EXAMS

There will be three exams for this course. The final will be a comprehensive final, with 30-40% from new material and 60-70% from previous material. The material that was actually tested on the first two mid terms will be considered for the comprehensive material. If the material was not tested on a mid term, it will not be tested on the final.

### WEEKLY ONLINE LEARNING UNITS

Weekly learning units are posted on Blackboard Learn. These units will consist of a study guide, learning material, and an assessment (quiz). Learning material will be in a variety of formats such as readings, videos, voice over PowerPoints, etc. This online component is replacing a traditional lecture time, so expect to spend about 2 hours per week online with the learning unit. As with any course, some weeks may be a bit more time than that, some less - but 2 hours per week should be the average.

You will have weekly assessments (quizzes) that come from various material posted online. It is the student's responsibility to check Blackboard Learn for these quizzes and complete them on time. All quizzes online will follow this format:

- Will be available each Thursday at noon and will close on Fridays at midnight.
- Students will have 45 minutes to complete each attempt.
- Students will have two attempts at each quiz.
- All questions will individually, but you will be able to revisit questions.
- Quizzes will be assumed open note/open book and will be developed accordingly.
- Quizzes are to be completed INDIVIDUALLY

- Questions will be randomly selected from a larger pool of questions on the topic – so not all students may have the same questions!

The instructor reserves the right to conduct unannounced quizzes as deemed necessary!

## RESEARCH PROJECT

As young animal scientists, it is important for students to gain practical experience in feeding livestock, therefore an applied research project will be incorporated into the course. Students will be required to feed 5 times during the 60 day feeding period (worth 100 points). Feeding will take about an hour and a half and will happen at 6 am and 5:30 pm. A maximum of 5 students per feeding shift is allowed. Students will sign up for feeding shifts on the Blackboard Learn calendar.

Associated with this project is a paper worth 100 points. The paper will require the following:

- Title page – includes the title in ALL CAPS and center about 2 inches from the top; student name about 1 inch below the title; next line will be course and activity section
- Minimum of 1 page, maximum of 2 pages, literature review. Double spaced, one inch margins. Do not repeat any information from the title page. Students will need to locate a minimum of 4 peer-reviewed journal articles (like Journal of Animal Science, Sheep and Goat Research Journal, etc). APA reference style must be used. Reference list (again following APA guidelines) must be on a separate page (all by itself).
- An abstract of the research project. An abstract is a summary of the entire research project and includes a brief introduction, materials and methods, results and discussion. Below are the specifications for the abstract:
  - Title at the top of the page in ALL CAPS and centered
  - Student name on the next line
  - There is not a “page” length for this assignment – instead you must have a minimum of 2000 characters + spaces and a maximum of 2500 characters + spaces. This is how all professional journals define abstracts.
  - The reader should be able to recreate the project by reading your abstract.
  - No references.
- Overall the paper will be about 4-5 pages, including the title page.
- Paper must be submitted as a PDF file to the Turnitin assignment on Blackboard Learn no later than Friday, May 11, 2012 by midnight.
- There will be a sample abstract available online.

## COMMODITY MARKET PROJECT

Throughout the course of the semester, you will be monitoring weekly commodity prices uses the USDA AMS resources and the Western United Dairyman website (if you choose dairy). Your final assignment will be due on Friday, May 11, 2012, via Blackboard Learn.

Your task is to graph the weekly change in prices for each of the following feeds: soybean meal, almond hulls, whole cottonseed, corn, barley, oats, and alfalfa hay (premium). Additionally, you will be required to monitor one animal commodity. **This is an easy assignment if you spend 15 minutes per week keeping your data caught up!** You may do any of the following:

Slaughter Cattle	Feeder Cattle	Feeder Lambs
Slaughter Lambs	Feeder Goats	Slaughter Hogs
Milk (this one has only monthly averages - must have January, February, March, and April)		

You will be required to develop a minimum of 1 page, double spaced and a maximum of 2 pages, double spaced (1 inch margins) summary of the data. Compare what is happening with feed prices to what is happening with your chosen commodity – what are the implications of this? See Blackboard Learn for more information!

## FEEDSTUFFS DISCUSSION

During this semester you will have free access to the Feedstuffs magazine - **this a GREAT agribusiness resource!!!** Part of this class will be to review different issues (it is a weekly magazine) and post a discussion message about an article. You can either post a new thread, or reply to another classmate's thread about a topic. These should have some substance ("great comment" is not an acceptable post!). You will be required to do 3 per month (Feb, March, April) so 9 for the entire semester. These are worth 5 points each for a total of 45

points.

A good post does the following (at some level):

- 1) summarizes an article
- 2) seeks clarification for a topic
- 3) forms an opinion about a topic

## EXTRA CREDIT

Feed the project lambs an additional 5 times for 3 points per time. Students may feed less than and will receive the 3 points per time. Maximum points are 15.

### OR

Extra credit case study – topic to be approved by instructor. Topics must relate to feeding animals (farm or companion) and to receive full credit, a minimum of 3 references (good ones) must be incorporated. Use APA style for referencing. This option is due by the Friday of the week before finals at 5:00 pm, emailed to instructor via Blackboard Learn, with the title “Extra Credit Case Study”. Maximum points are 15.

## Course Policies:

- NO LATE ASSIGNMENTS WILL BE ACCEPTED! If you are not going to be attending class where an assignment is due, drop it off early or send it with a classmate. Online assignments will allow a minimum of 24 hours to be completed to be able to fit everyone’s schedule!
- No make-up exams/quizzes will be allowed, EXCEPT FOR **ABSENCES** THAT HAVE BEEN **CLEARED** BY THE INSTRUCTOR **PRIOR** TO THE ABSENCE!
  - For school related activities, a letter from the supporting faculty/instructor **is required prior to the absence.**
- Remember – you earn grades, professors merely assign them!
- “Pet Peeves”:
  - Asking how long something will take. You are obligated for a certain amount of time by signing up for this course – we will meet for the full time!
  - Asking to be excused from rules that all classmates are following.
  - Cell Phones that ring or vibrate during class time (lecture or activity). Leads to Celina’s Cell Phone Rule - If a cell phone goes off during class time (lecture or lab), the owner will lose 10 points off total grade, for every infraction.
  - Inappropriate or disruptive behavior will not be tolerated, nor will lewd or foul behavior
- You are responsible for adding/dropping classes.
- It is YOUR responsibility to obtain any information announced in class.
- You will have a one-week period following the return of any exams, quizzes, or assignments to resolve any questions regarding the grading. After that time period, all grades are final.
- You should retain all graded items until a final course grade is assigned.
- If there is evidence that you have been involved in any form of academic dishonesty, you will receive an “F” grade for the course, be locked from WebCT, and a report will be provided to the Student Judicial Affairs for further action.
- If you need specific accommodations due to a disability (or other circumstances), you must contact a counselor at Disability Support Services, 530-898-5959.

# Academic Integrity

Students are expected to be familiar with the University's Academic Integrity Policy. Your own commitment to learning, as evidenced by your enrollment at California State University, Chico, and the University's Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Judicial Affairs. The policy on academic integrity and other resources related to student conduct can be found at: <http://www.csuchico.edu/sjd/sja.shtml>

## Philosophical Statement – Academic Rigor

Academic rigor consists of dedication on the part of students and faculty to the pursuit of academic excellence, including discipline of mind and disciplined behavior, intellectual honesty, decorum and civility. It is exemplified by the attainment of the highest standards as defined by and in each discipline. It also includes transmitting, sustaining, evaluating, and enhancing the continuity of recognized intellectual achievements in each discipline. A passion for learning and high expectations should pervade the atmosphere of the University. The quality of education and the degrees and certificates offered by the University will only have value insofar as the administration, faculty, and students view themselves as custodians of the University's reputation.

## Expectations for a Learning Community

### Expectations of Faculty

### Expectations of Students

Demonstrate high expectations of the course through a demanding syllabus, well-prepared classes, staying current through research and professional activities.	Set high personal standards, develop a strong sense of purpose, come to class well-prepared, and complete assignments on time
Offer conscientious advising and predictable availability	Make the most of faculty advising and mentoring
Fully involve students in the learning experience by providing prompt, frequent feedback and developing rigorous testing methods	Treat fellow students and the classroom environment with complete respect; give each class full attention and participation; do not miss class, arrive late, or leave early
Develop approaches and strategies geared to diverse talents and ways of learning, while maintaining high standards of accountability	Accept responsibility for learning and grades earned
Seek to eliminate opportunities to engage in academic dishonesty	Approach each class in a professional manner
Actively contribute to their disciplines	Recognize that a full-course load is equivalent to full time work and spend no less time on it
	Demonstrate complete honesty and integrity

## Tentative Schedule:

Week	Topics
1 (Jan 23-27)	Online Topic: Digestive Systems/Classes of Feeds/Quiz Activity Topic: Feed identification (Campus)
2 (Jan 30-Feb 3)	Online Topic: Feed Processing & Analyses/Quiz Activity Topic: Applied use of Feed Analyses (Campus)
3 (Feb 6-10)	Online Topic: Feed Costs/Quiz Activity Topic: Feed Cost Evaluation and Cases (Campus)
4 (Feb 13-17)	Online Topic: Nutrition Research and Interpreting Statistics/Quiz Activity Topic: Start Feeding Project (Farm)
5 (Feb 20-24)	Online Topic: Mid Term 1 – online Activity Topic: Nutrient Requirements (Campus)
6 (Feb 27-March 2)	Online Topic: Beginning Ration Formulation/Quiz Activity Topic: Nutrient Requirements (Campus)
7 (March 5-9)	Online Topic: Swine Feeding/Quiz Activity Topic: Beginning Ration Formulation (Campus)
8 (March 12-16)	Online Topic: Sheep & Goat Feeding/Quiz Activity Topic: Advanced Ration Formulation (Campus)
9 (March 19-23)	Spring Break – Have Fun!
10 (March 26-30)	Online Topic: Dairy Cattle Feeding/Quiz Activity Topic: Tour Sheep & Goat Unit and Swine Unit (Farm)
11 (April 2-6)	Online Topic: Beef Cattle Feeding/Quiz Activity Topic: Case Study (Campus)
12 (April 9-13)	Online Topic: Mid Term 2 - online Activity Topic: Tour Beef Unit and Dairy Unit (Farm)
13 (April 16-20)	Online Topic: Free week to offset time feeding ☺ Activity Topic: Conclude Feeding Project (Farm)
14 (April 23-27)	Online Topic: Equine Feeding/Quiz Activity Topic: Case Study (Campus)
15 (April 30-May 4)	Online Topic: Companion Animals/Quiz Activity Topic: Case Study (Campus)
16 (May 7-11)	Online Topic: Review for Final ☺ Activity Topic: Case Study (Campus)
17 (May 14-18)	Finals Week – Online Final due by Thursday at midnight