

**Reedley College Animal Science Program**  
**Course Syllabus – Spring 2010**

**Course Number & Name:** AS 5 – Animal Nutrition

**Section Number:** 50317

**Instructor Information:**

***Contact Information:***

David M. Lopes  
Phone/Voice Mail: 638-0319  
E-mail: [david.lopes@reedleycollege.edu](mailto:david.lopes@reedleycollege.edu)  
Office: AGR 5

***Office Hours:***

Tuesdays & Thursdays 9:00 – 10:00 am  
Wednesdays 10:00 – 11:00 am

**Class Meets:**

Lecture: Monday, Wednesday, & Friday  
9:00 – 9:50 am in AGR 15

**Holidays:** Holidays will be observed as per the State Center Community College District Schedule.

**Drop Deadline:**

The last day for a student to drop this course is **Friday, March 12<sup>th</sup>**. After this date, the student must receive a grade.

**Final Exam Date:**

Monday, May 17<sup>th</sup> from 9:00 - 11:00 a.m.

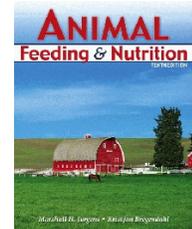
**Prerequisites:** None

**Units:** 3 (based on 3 hours lecture per week)

**Text & Other Required Materials:**

*Animal Feeding & Nutrition* Jurgens & Bregendahl, 10<sup>th</sup> Edition,  
Kendall/Hunt Publishing Company, ISBN 978-0-7575-3176-7

Notebook & writing utensil for both lecture and lab sessions.



**Supplemental References**

Animal Industry Trade Magazines, Feedstuffs Magazine, and numerous Internet Sites.

**Method for Measuring Student Advancement and Determining Grades**

The methods for measuring students' achievement & determining grades are:

**Writing Assignment**

Laboratory Reports

**Computational Problem-solving**

Homework Problems, Field & Lab Work

**Skill Demonstrations**

Class Performance, Field & Lab Work

**Examinations**

Multiple Choice, True/False, Matching, Essay

**Grading Scale:** A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = under 60%.

The final grade will be determined from 75% lecture assignments & tests and 25% final exam.

### **Attendance Requirements:**

Attendance is required since most of the learning occurs in a lecture/laboratory situation.

- Students are responsible for obtaining notes/information missed due to an absence from the instructor.
- Please notify the instructor if you know in advance that you will be absent from class.
- College policy dictates that an instructor should drop a student with two consecutive weeks of unexcused absences.
- At the end of the 9th week of instruction, no withdrawals are permitted and the student must receive a grade.

### **Behavioral Standards:**

All students are expected to act in a mature, responsible manner that respects the rights of all other students, the instructor, and any guest presenters that may participate in the class. All cell phones and other electronic gadgets that may cause distraction are to be turned "off" during lecture and lab sessions.

### **Cheating & Plagiarism:**

In keeping with the philosophy that students are entitled to the best education available, and in compliance with Board Policy 5410, each student is expected to exert an entirely honest effort toward attaining an education. Violations of this policy will result in disqualification for the course.

### **Accommodation Statement:**

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

### **Course Description:**

This course covers the fundamental anatomy and physiology of digestion and absorption in both ruminant and non-ruminant species of livestock. Emphasis is placed on the role of nutrients in maximizing animal health and performance, the nutritive analysis of various common feedstuffs, and the formulation of balanced rations for cattle, sheep, swine, horses, and poultry.

### **Topics:**

See attached spreadsheet for unit topics, student assessment methods and respective point values.

### **Learning Objectives:**

The student will:

- Evaluate career opportunities and requirements for successful employment in the animal nutrition industry.
- Explain the role of nutrition in providing optimal animal health and performance.
- Identify samples of various concentrates, roughages, forages, and feed supplements commonly used in the animal nutrition industry.
- Identify and explain the functions of the key anatomical features of the ruminant and monogastric digestive systems.
- Compare and contrast the digestive processes in ruminant and monogastric species.
- List and define the six categories of nutrients.
- Discuss the various methods of feed analysis commonly utilized in the animal nutrition industry.
- Interpret National Research Council (NRC) nutrition tables and apply the relevant information to the formulation of livestock rations.
- Interpret the components of the guaranteed analysis found on a feed tag.
- Formulate rations for various species of livestock.

**AS 5 - Animal Nutrition**  
**Lecture Topic Outline**  
**Spring 2010**

Instructor: D. M. Lopes

<b>Unit Topic (listed in approximate order to be addressed)</b>	<b>Estimated Number of Lecture Sessions</b>	<b>Assessment Method (Associated Assignment, Test, Other ...)</b>	<b>Estimated Point Value</b>
Course Introduction & Syllabus Review	2	Syllabus Verification Form	100
Introduction to Animal Nutrition	5	Unit Test	100
Basic Livestock Feeding Practices	5	Unit Test	100
Nutrients & Their Functions	5	Unit Test	100
The Non-Ruminant (Monogastric) Digestive System	4	Unit Test	100
The Ruminant Digestive System	4	Unit Test	100
The Avian (Poultry) Digestive System	2	Unit Test	100
Evaluation & Classification of Feedstuffs	5	Unit Test	100
Feeding Behavior & Regulation of Feed Intake	5	Unit Test	100
Feed Manufacturing & Processing	5	Unit Test	100
Diets & Ration Formulation	5	Unit Test	100
Various Guest Speakers	3	Speaker Report Forms	300
Final Exam Review	1	N/A	-
Final Exam	1	Scantron Exam	500
District Holidays (M.L. King, Lincoln, Washington)	3	N/A	-
<b>Semester Totals (18 weeks)</b>	<b>52</b>		<b>1,900</b>

\* The exact order of topics may vary depending upon availability of necessary resources, guest speaker schedules, and other factors.

**Reedley College**  
**Animal Science Program**  
**Course Syllabus Review Verification**  
**& Expectations Statement**

I, \_\_\_\_\_, do hereby verify that I have received and reviewed a

*<print your first & last name>*

copy of the course syllabus for **AS 5 – Animal Nutrition**. Furthermore, I understand that:

- Individuals who consistently exhibit excellent time management skills, proficiency in communication, and a high level of work ethic are highly valued by employers. Therefore, I will strive to practice these skills in completing the requirements for this course.
- I am responsible for attending each class session and that I may be dropped from this course if I exceed two (2) absences prior to the end of the ninth week of instruction.
- I will exhibit respect toward all other students, guest speakers, faculty, staff and others associated with this class. Foul language, crude humor, and inappropriate comments directed at others (in regard to ethnicity, religion, economic status, disability, or any other factors) will not be tolerated.
- I am responsible for my own behavior in this class. Excessive disruption of class (including excessive tardies, unexcused departures from class, excessive talking, and/or other disruptive behaviors) may result in being dropped from the course.
- I am responsible for obtaining the appropriate text and materials needed for this course.
- I am responsible for taking notes in class as most of the test material will be covered during lecture.
- I am responsible for doing my own work in class.
- I am responsible for turning off (or switching to silent) my cell phone during lecture and lab sessions for this course and that I may not use my cell phone for any reason during tests.
- Makeup work will only be allowed in the case of extreme illness, family emergency, or a pre-approved absence (such as a class field trip).
- I am responsible for making up missed tests and assignments within one week after returning from my pre-approved absence (see previous bulleted item).
- This class may include periodic impromptu quizzes, which may be “open book” or “open note” in format, and that I must use my own textbook and/or notes for these quizzes. These will be timed quizzes, which may be given at the start of class. Makeup of these quizzes will not be allowed in the case of tardiness.
- The approximate grade breakdown for this course will be as follows:

Assignments, Quizzes & Unit Exams	75%
Final Exam	25%
100%	

\_\_\_\_\_

Student Signature

\_\_\_\_\_

Today's Date

*Note: This assignment is worth 100 points and must be submitted immediately upon entering the course.*

