Animal Nutrition – Agr 333 (Online Course)

Agriculture Department

Stephen F. Austin State University

Syllabus

Title of Course: Animal Nutrition

Course Number: AGR 333

Course Instructor: David H. Miller, Ph.D.

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(Text is required)

Course Description: Animal Nutrition 333 is designed as an introductory nutrition course being taken by the student. It will provide an understanding of the basic principles of animal nutrition to include the history of the science, classification and function of nutrients, anatomy and physiology of various animal digestive systems, digestive processes, basic chemical pathways of digestion and metabolism, feedstuff characterization and a basic understanding of feed formulation. We will work specifically with the main farm animals including mammalian and avian species.

Grading Procedure:

3 major exams............................ 60% of grade

5 intermediate quizzes (announced)......10% of grade

1 outside research assignment..........10% of grade

Comprehensive final exam.............. 20% of grade

Exams:

Major exams are prescheduled as described in the course outline and will cover the material since the previous exam. Exams and tests will be taken online by all students on the specified date and will be completed within a specified period of time. Independent work must be completed by each student during
the specified time.

Exams and quizzes will cover on-line lecture notes, electronic handouts, outside/online reading material, and assigned reading in the text.

**Letter Grade:**

\[ 90 - 100 = A \]
\[ 80 - 89.99 = B \]
\[ 70 - 79.99 = C \]
\[ 60 - 69.99 = D \]
\[ <60 = F \]

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Personal Help:

Students are encouraged to assist each other during prearranged chat-room times which will be announced throughout the semester. Chat-room times will also be announced during the semester when the instructor will be available for all students to receive help with specific questions or problems with course content. Students are encouraged to present questions to the instructor by email throughout the semester.

Important Points:

As with any course and especially with this nutrition course later information will build on the basics learned during the early phases of the course. As you begin the course it will be extremely important that you grasp the basic building blocks to prepare for later more complex issues. You should make an effort to learn and think rather than just memorize facts.
Course Outline

- Basics of the course. What to expect and what is expected of you.
- Introduction to Nutrition. History and basic terms.
- Introduction to Nutrients
- Analysis of nutrients in feedstuffs
- Gastrointestinal anatomy
- Exam A
- Water
- Bioenergetics
- Protein
- Carbohydrates
- Carbohydrate Metabolism
- Exam B
- Lipids
- Minerals
- Vitamins
- Non-nutritive feed additives
- Exam C
- General nutritional guidelines for farm animals
- Principles of balancing rations
- Feeding swine and poultry
- Feeding ruminants
- Final Exam