

**COLLEGE OF ARTS AND SCIENCES**  
**Sam Houston State University**

Course Description and Syllabus

**DEPARTMENT:** Agricultural Sciences  
**COURSE NUMBER AND TITLE:** AGR 373; Animal Nutrition  
**SEMESTER:** Fall 2007  
**LOCATION OF CLASS MEETING:** Smith Hudson Building, Room 338  
**CLASS MEETING TIME:** Tuesday and Thursday, 8:00 – 9:50  
**INSTRUCTOR:** Stanley F. Kelley, Ph.D., Professor - Animal Science  
**OFFICE LOCATION:** Thomason - Room 222  
**TELEPHONE:** Telephone: 294.1189 (office); 979.690.8221 (home)  
e-mail: [sfkelley@shsu.edu](mailto:sfkelley@shsu.edu)  
**OFFICE HOURS:** As posted or by appointment

**COURSE DESCRIPTION:** Students will acquire a basic knowledge and understanding of animal nutrition through the fundamentals of...

...physiology of digestion, anatomy, and function of the various digestive tracts.

...utilization and metabolism of water, carbohydrates, lipids, proteins, vitamins, and minerals.

**REFERENCE AND TEXTBOOK:** Basic Animal Nutrition and Feeding, Church, D.C. and W.G. Pond, 4th. Ed., John Wiley and Sons Pub., NY.

Supplemental Notes, Kelley, S.F., Eagle Graphics.

**ATTENDANCE POLICY:** Regular and punctual class attendance is expected. If a student misses an exam due to an **EXCUSED** absence, arrangements must be made **IN ADVANCE** with the instructor to take the exam. Otherwise, make-up exams will be comprehensive and scheduled at the end of the semester. **Micro-Quizzes are not subject to make-up.**

**EXAMS AND GRADING PLAN:** The course will consist of four exams. Grades will be determined based upon the equal weighing of four (4) lecture exams and the average of several micro-quizzes.

Exam I	20%
Exam II	20%
Exam III	20%
Exam IV	20%
Micro-quiz Average	<u>20%</u>
	100%

Grade distributions will be based upon the following scale:  
A = 90 – 100; B = 80 – 89; C = 70 – 79; D = 60 – 69; F = <60

**ACADEMIC DISHONESTY:** All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

Cheating **WILL NOT** be tolerated. Students caught cheating on an exam or micro-quiz will be given a zero (0) for the exam or quiz grade and a letter will be written to the student's file.

**CLASSROOM RULES OF CONDUCT:**

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. **Cellular phones and pagers must be turned off before class begins.** Students are prohibited from making offensive remarks, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engage in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

**AMERICANS WITH DISABILITY ACT:**

It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. Disabled students may request assistance with academically related problems stemming from individual disabilities by contacting the Director of the Counseling Center in the Lee Drain Annex or by calling 936.294.1720.

**RELIGIOUS HOLIDAYS:**

University policy states that a student who is absent from class for the observance of a religious holy day shall be permitted to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. A student who wishes to be excused for a religious holy day must present the instructor with a written statement describing the holy day(s) and the travel involved. The instructor should provide the student with a written description of the deadline for the completion of missed exams and/or assignments.

**COURSE OUTLINE:**

- I. Orientation and Introduction  
Importance of Nutrition
- II. History of Nutrition

- III. The Digestive System: Anatomy and Function
  - A. Non-Ruminant
  - B. Ruminant
  - C. Equine
  - D. Poultry

IV. Digestion and Absorption

V. Fundamentals of Feed Nutrients

**\*\* EXAM I \*\***

VI. Water: Its Role and Requirements

VII. Proteins

- Classification System
- Amino Acids
- Function and Metabolism

**\*\* EXAM II \*\***

VIII. Carbohydrates

- Classification System
- Functions
- Digestion and Absorption
- Energy Metabolism
- Energy Metabolism under Stress

**\*\* EXAM III \*\***

IX. Lipids

- Classification System
- Functions
- Digestion and Absorption
- Metabolism
- Deficiencies

**\*\* EXAM IV - Non-Comprehensive Final \*\***