

ANATOMY & PHYSIOLOGY OF DOMESTIC ANIMALS  
AGR 376; MWF 10:10-11:00  
Room 9, Carter Bldg.

**INSTRUCTOR:** Dr. Bruce R. Pratt  
Rm. 4 Carter Bldg.  
622-2237  
Bruce.Pratt@eku.edu

**OBJECTIVES:**

1. To become familiar with the macro and micro anatomy of domestic animals.
2. To learn how the anatomical structures function within the animal to maintain a homeostatic state.
3. To acquaint the student with medical and scientific terminology.

**TEXT:** Anatomy and Physiology of Farm Animals, by R.D. Frandson. The text is not required but helpful in providing background material and clarification of lectures.

A medical dictionary will be very useful.

**ATTENDANCE:** Students in Agriculture are required to attend all scheduled meetings of the classes for which they are enrolled. If a student has a legitimate reason to be absent (personal illness, critical illness or death in immediate family or participation in an approved University activity), they are expected to discuss it with their instructor prior to his anticipated absence, when possible and make arrangements for any make-up work that must be done. Completion of make-up work is the responsibility of the student. The instructor will judge the validity of the reason for an absence.

In case of an emergency of such nature that the above requirements cannot be met, the student should inform the instructor at the first opportunity after the student's return to the campus and he should present adequate and documented reasons. Absences in excess of 10% will result in the lowering of the final grade one letter grade. Absences in excess of 20% of a class will automatically result in a failing grade unless this be waived by the instructor and department chairman.

Students who have unexcused absences forfeit the right to do make-up work especially quizzes, exams and laboratories given that day.

Enforcement of this policy is the responsibility of the instructor. Unexcused absences may be used as a factor in determining a grade for the course.

**EXAMS & GRADING:** Dates for exams are set and will not change. Make-up exams will be given only at the discretion of the instructor.

<u>Date</u>	<u>Points</u>	<u>Comments</u>
Sept 22	125	Exam 1; Bones: Skull & vertebrae; 25 Pts.
Oct. 10	125	Exam 2; Bones: Front & hind limbs, Ribs & Hips; 25 Pts.
Oct. 20	25	Term Paper Outline
Nov. 7	100	Exam 3;
Nov. 17	75	Term Paper
Dec. 10	200	Final
		New Material: 100 Pts.
		Comprehensive: 100 Pts.
Total Points	<u>650</u>	

Final course grades will be based on a sliding scale looking for "natural breaks" in the distribution of student grades. It is guaranteed that the cut-off for the grades will never be above the following:

<u>Grade</u>	<u>Percentage</u>
A	92 %
B	84 %
C	74 %
D	62 %

**LAST DAY TO DROP COURSE:** Oct. 14, 2003. Students will have 2 Exams graded and returned by that date (31% of their grade)

**STUDENTS WITH DISABILITIES:** If there is any student in this class who is in need of academic accommodations and who is registered with the Office of Services for Students with Disabilities, please make an individual appointment with the course instructor to discuss accommodations. Upon individual request, this syllabus can be made available in alternative forms. If any student who is not registered with the Office of Services for Students with Disabilities has need of academic accommodations, please contact the Office directly either in person on the first floor of the Student Services Building or by telephone at 622-1500.

## TERM PAPER:

Sept. 24: On a 3 X 5" file card include the title of your term paper and at least one reference from a scientific journal you will use in the paper.

Outline Due Oct. 27 with 5 References (25 Pts.)

Final Copy Due Date: Nov. 17 - **No late papers accepted.**

Requirements: Three to 5 pages (excluding references), typed and double spaced on any topic related to anatomy or physiology. Use a minimum of five articles from refereed scientific journals. The paper must be done on WordPerfect or Word and an electronic copy (3½ disc or e-mailed) along with a printed copy must be submitted.

Hint: The more specific you are in your topic the better.

Style: Journal of Animal Science. Use the following article for a reference of style.

Webb, K.E. 1990. Intestinal Absorption of Protein Hydrolysis Products: A Review. J. Anim. Sci. 68: 3011.

References: Listed below are a few Refereed Scientific Journals located at the Crabbe Library. Other journals are also appropriate. If you are not sure please ask.

ACTA Endocrinologica	J. Anim. Sci.
Adv. Immunology	J. Applied Physiology
Am. J. Anatomy	J. Cellular Physiology
Am. J. Physiology	J. Immunology
Anat. Record	J. Membrane Biology
Ann. Rev. of Physiology	J. Neurophysiology
Endocrinology	New England J. Medicine
J. Heart & Lung	Physiologist
J. Am. Med. Assoc.	Tissue & Cell

Anatomy & Physiology  
Course Syllabus

<u>Date</u>		<u>Topic</u>
8/20		Course Introduction
8/22- 9/8		Structure & Function of the Cell
9/10- 9/17		Anatomy of the Nervous System
9/12		Bones: Skull & Vertebrae; 25 Pts.
<b>9/22</b>	<b>M</b>	<b>EXAM 1:</b> 100 Points plus bones Bones: Skull & Vertebrae; 25 Pts.
9/24- 9/29		Physiology of the Nervous System <b>(Sept. 24<sup>th</sup> Term Paper Topics)</b>
10/1		Gross Anatomy of Major Muscles
10/3- 10/6		Microanatomy & Physiology of Muscle
10/8	W	Bones: Fore & Hind limbs, Ribs & Hips
<b>10/10</b>	<b>F</b>	<b>EXAM 2:</b> 100 Points plus bones Bones: Fore & Hind limbs, Ribs & Hips; 25 Pts.
10/13- 10/24		Circulatory System <b>(Oct. 20<sup>th</sup> - Term Paper Outline)</b>
10/27- 11/5		Respiratory System
<b>11/7</b>	<b>F</b>	<b>EXAM 3:</b> 100 Points Total
11/10- 11/17		Urinary System <b>(Nov. 17<sup>th</sup> Term Paper Due)</b>
11/19- 12/1		Endocrinology
12/3- 12/8		Special Senses
<b>12/10</b>	<b>W</b>	<b>FINAL EXAM (10:30-12:30):</b> 200 Total Points New Material: 100 Pts. Old Material: 100 Pts.