

I. Catalog Description and Credit Hours:

Detailed investigations into the anatomy and physiology of domestic animals, including the skeletal, muscular, cardiovascular, respiratory, digestive, and nervous systems. Two lectures, one 2-hour laboratory. (3)

II. Prerequisites: AY101 (Animal Science) or ZO200 (Biology of Animals)

III. Objectives of the Course:

- a. Explain growth and development of domestic animals, with a focus on animal anatomy.
- b. Describe physiologic functions of the skeletal, muscular, cardiovascular, respiratory, digestive, and nervous systems.
- c. Explain routine protocols for examination of animal health.

IV. Expectations of Students:

- a. Read required material prior to class attendance and be prepared to discuss it fully and intelligently.
- b. Attend class regularly and actively participate in class discussions and laboratory exercises.
- c. Meet all announced deadlines for assignments.
- d. Appropriate performance on examinations.
- e. Read appropriate supplementary materials.

V. Course Content:

Topic	# Lecture(s) and weeks
<i>Unit One: biochemicals, cells and tissues</i>	4 weeks
Chemical basis of life	
The mammalian cell	
Mammalian tissues	
Skin and related structures	
Exam 1	
<i>Unit Two: the skeletal, muscular, and cardiovascular, systems</i>	4 weeks
The skeletal system	
The muscular system	
The cardiovascular system	
Exam 2	
<i>Unit Three: The respiratory and digestive systems</i>	5 weeks
Blood, lymph and immunity	
Respiratory System	
The digestive system	
Nutrients and metabolism	
The nervous system	
Sense organs	
Exam3	
<i>Unit Four: The endocrine, urinary and reproductive systems</i>	3 weeks
The endocrine system	
The urinary system	
Reproductive systems	
<u>Final Exam</u>	

Laboratory Content (Each is one week)

The mammalian cell
Mammalian tissues
Domestic animal skin
Skeletal characteristics
Muscular systems
Cardiovascular systems
Blood chemistry
Respiratory characteristics
Digestive characteristics
Nervous system characteristics
The endocrine glands and organs
The urinary system characteristics
Male reproductive systems
Female reproductive systems
Laboratory practicum

VI. Textbook and References:

Colville, T., and J. Bassert. 2008. Clinical anatomy and physiology for veterinary technicians. Mosby Publ. 2nd Ed, St. Louis, MO.

Colville, T., and J. Bassert. 2008. Clinical anatomy and physiology laboratory manual for veterinary technicians. Mosby Publ. 2nd Ed, St. Louis, MO.

Supplementary information will be available as: handouts and Internet resources.

VII. Basis for Student Evaluations:

Exams: Exams (4 @ 100 points each) Exam questions will come from lecture notes, reading assignments, and class discussions. (Final exam is the 4th examination).

Laboratory: each laboratory will be graded (10 point scale) and the total percentage of the laboratory will reflect 50% of the class grade.

Grade Scale is percent of total points: A is 100-90%; B is 89-80%; C is 79-70%; D is 69-60%; F is <59%

Attendance:

While attendance per se can not be required of students, there are consequences associated with absences and policies governing excused- and non-excused absences. The official statement about attendance, derived from the Undergraduate Bulletin, may be accessed at: <http://www.semo.edu/bulletin/pdf/2006Bulletin.pdf>.

Academic Honesty:

The Undergraduate Bulletin defines academic dishonesty as "...those acts which would deceive, cheat, or defraud so as to promote one's scholastic record...", and states that "[v]iolations of academic honesty represent a serious breach of discipline and may be considered grounds for disciplinary action, including dismissal from the university".

The official statement about academic honesty, including plagiarism, may be accessed at: <http://www.semo.edu/bulletin/pdf/2006bulletin.pdf>. Additional information may be accessed at: <http://www6.semo.edu/judaffairs/>

Civility and Harassment:

Judicial Affairs is responsible for addressing such matters and that information is available at: <http://www6.semo.edu/judaffairs/>

Disabilities:

Diversity in all its forms merit the respect of the faculty, and this applies equally to students with disabilities. While it is the responsibility of the student to inform the faculty of any physical or learning disabilities, the faculty should inform the students that there are policies and services available to them.

Students may obtain official information about disabilities from Learning Assistance and Disability Support Services, located at: <http://www.semo.edu/cs/services/lec.htm>.