

Discipline: Agriculture	Sub-discipline: Veterinary Technician
General Course Title: Veterinary Anatomy and Physiology	Min. Units: 3 Semester
Proposed Suffix:	
<p>Course Description: Commonly used terminology and biological concepts used in veterinary medicine. Includes study of basic normal anatomy and physiology (in both large and small animals) in a body systems format, along with related vocabulary and spelling. Commonly used veterinary acronyms and abbreviations are woven throughout the course where relevant.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Demonstrate an understanding of basic cell biology. • Identify normal anatomy and physiology of small companion animals and farm livestock. • Define terminology used in small animal veterinary practice. • Identify disease progression in animals. • Describe the use of equipment for lab tests or relevant small animal hospital tests. • Discuss endocrine system terminology. • Discuss terminology of drugs and medications. • Describe career opportunities in the animal health field. • Discuss the rules and routes of medication administration. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Cell Biology <ol style="list-style-type: none"> a. Cell structure b. Cellular respiration c. Cell types and their functions d. Microscopy 2. Veterinary Terminology <ol style="list-style-type: none"> a. Word structure b. Prefixes and suffixes c. Anatomical planes d. Directional terms e. Pharmaceutical terminology f. Acronyms and abbreviations 3. Disease Progression <ol style="list-style-type: none"> a. Introduction to symptoms and signs of disease b. Zoonotic diseases c. Effects of disease on various organs d. Laboratory tests <p>Veterinary Anatomy and Physiology (Content Continued)</p> <ol style="list-style-type: none"> 4. Administration of medicines <ol style="list-style-type: none"> a. Routes of administration 	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

- b. Precautions
- c. Regulations

5. Introduction to anatomy

- a. Overview of body structure
- b. Tissues, organs and organ systems

6. Hematopoietic system

- a. Terminology
- b. Anatomy
- c. Physiology

7. Lymphatic system

- a. Terminology
- b. Anatomy
- c. Physiology

8. Musculoskeletal system

- a. Terminology
- b. Anatomy
- c. Physiology

9. Cardiovascular system

- a. Terminology
- b. Anatomy
- c. Physiology

10. Respiratory system

- a. Terminology
- b. Anatomy
- c. Physiology

11. Nervous system

- a. Terminology
- b. Anatomy
- c. Physiology

12. Reproductive System

- a. Terminology
- b. Anatomy
- c. Physiology

13. Alimentary system

- a. Terminology
- b. Oral and GI anatomy
- c. Physiology

**Veterinary Anatomy and Physiology
(Content Continued)**

14. Urinary system

- a. Terminology
- b. Anatomy
- c. Physiology

15. Career Opportunities

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.	
Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Diagnoses and Problem Solving Laboratory Skill Practicum Certification Exams
Typical Textbooks, Manuals, or Other Support Materials <u>Cat Dissection: A Laboratory Guide</u> , 2nd Edition, Allen, Connie, Mosby, 2001 <u>Clinical Anatomy & Physiology For Veterinary Technicians</u> , Colville, Thomas & Bassert, Joanna M., Mosby, 2002 <u>Clinical Textbook for Veterinary Technicians</u> , McCurnin, Dennis M., D.V.M.M.S., 4 th Edition, W.B. Saunders, 1998	
Statewide Articulation: Under review	
FDRG Lead Signature:	Date:
Mark E. Bender, PhD CSU Stanislaus	
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