

## **VETT 109**

### **Veterinary Anatomy and Physiology**

4 Credits: 3 hours lecture and 3 hours lab

Community College of Baltimore County  
Common Course Outline

#### **Description**

**VETT 109 – Veterinary Anatomy and Physiology:** introduces the anatomy (structure) and physiology (function) of domestic and companion animal species. Species studied include the dog, cat, horse, cow, sheep, goat, and pig. Species of birds, amphibians and reptiles are also discussed. The course integrates the comparative anatomy of species, common diseases affecting the various species' systems and organs, and application to clinical situations. The course has a laboratory component, using models, illustrations, demonstrations, and computer-assisted learning.

**Pre-requisite(s):** Admission into the Veterinary Technology program

#### **Overall Course Objectives**

Upon completion of this course, students will be able to:

1. discuss anatomic terms of direction and basic biochemistry;
2. distinguish among cells, tissues, organs, and organ systems both structurally and functionally;
3. list and describe the types of muscle tissues and bones, their structures and functions, and the functional groupings of muscles and mechanisms of muscle contraction;
4. describe the structural and functional characteristics of the cardiovascular system;
5. describe the structural and functional characteristics of the respiratory and digestive systems;
6. identify the senses whose primary function is to provide animals with an awareness of their environment and describe the structural and functional characteristics of the nervous system;
7. describe the structural and functional characteristics of the urinary and endocrine systems; and
8. discuss components of the reproductive system, including pregnancy, birth and lactation.

#### **Major Topics**

- I. Tissues
- II. Integumentary System
- III. Musculoskeletal System
- IV. Cardiovascular System
- V. Lymphatic System
- VI. Digestive System
- VII. Nervous System

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- VIII. Endocrine System
- IX. Urinary System
- X. Reproductive System
- XI. Special Systems
- XII. Avian, Amphibian, and Reptilian Anatomy and Physiology

### **Course Requirements**

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Two examinations
- Two quizzes
- Two laboratory practicums

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the most current APA format.

### **Other Course Information**

An overall grade of “C” (70%) or higher is required for satisfactory completion of the course.

Date Revised: 3/4/2025