

COURSE SYLLABUS

Course Title: Veterinary Anatomy & Physiology I

Course #: VET* 201

Course Description: 4 credits. This course is the first semester of a two semester sequence designed to provide a broad foundation in the structure and function of the major animal species for students intending to pursue a career as a Veterinary Technician or continue on with their education in veterinary science or a related field.

This course investigates the structure and function of the animal body in the species most commonly seen in veterinary practice, including companion animals, livestock, avian, laboratory animals and exotics. The laboratory component will allow students to gain experience with the tools and techniques used to study the body on a macroscopic and microscopic level. Students will investigate the connections between the study of anatomy and physiology and clinical veterinary medical and surgical practice.

Pre-requisite: BIO* 121 (or BIO* 127) and CHE* 111

Goals:

- Explore the structure and function of the body for the major animal species of veterinary importance.
- Understand and be able to employ veterinary-specific medical terminology as it applies to clinical veterinary practice.
- Emphasize connections between the study of anatomy and physiology with clinical veterinary medical and surgical practice.
- Share an awareness of current events and issues in veterinary medicine and surgery.
- Support the development of veterinary technology students as informed, competent, and responsible members of the veterinary profession.

Outcomes: Upon successful completion of this course, the student will be able to:

- Recognize, identify and describe the structure and function of the organ systems of the major animal species seen in veterinary clinical practice including companion animals, livestock, avian, exotic and laboratory species.
- Explain the regulatory processes involved in homeostasis.
- Demonstrate microscopy and dissection skills as they pertain to the cytology, histology and anatomy of companion animal species.
- Discuss and express an understanding of clinical applications of anatomy and physiology such as vaccination, diagnostic sampling and treatment techniques in various species.

Major sections of Veterinary Anatomy & Physiology I include:

- Basic Anatomic Terminology
- Cell Biology, Basic Chemistry and Genetics
- Microscopy, Histology, and Dissection
- Integumentary System
- Skeletal System
- Muscular System
- Nervous System
- Sense Organs
- Endocrine System

<u>NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE</u> <u>COURSE SYLLABUS</u>

Course Title: Veterinary Anatomy & Physiology I LAB

Course #: VET* 201L

Course Description: This course is the first of a two part series designed to provide students with a broad foundation of the structure and function of the major animal species for students intending to pursue a career as a Veterinary Technician or continue on with their education in veterinary science or a related field.

Beginning with basic chemistry, the body's three major levels of organization (cells, tissues and organs) provide the foundation for a systematic investigation of the structure and function of the animal body, for the most common species seen in veterinary practice, including companion animals, livestock, avian, laboratory animals and exotics. The laboratory component will allow students to gain experience with the tools and techniques used to study the body on a macroscopic and microscopic level. Students will measure and assess physiological parameters used to evaluate the major organ systems and investigate the connections between the study of anatomy and physiology with clinical veterinary medical and surgical practice.

Co-requisite: VET*201 Lecture

Goals:

- Explore the organ structure and function of the body for the major animal species of veterinary importance
- Emphasize connections between the study of anatomy and physiology with clinical veterinary medical and surgical practice
- Share an awareness of current events and issues in veterinary medicine and surgery
- Support the development of veterinary technology students as informed, competent and responsible members of the veterinary profession.

Outcomes: Successful completion of this course will enable students to:

- Recognize, identify and describe the structure and function of several organ systems of the major species seen in veterinary clinical practice including companion animals, livestock, avian, exotic and laboratory species
- Explain the regulatory processes involved in homeostasis
- Develop and refine microscopy and dissection skills
- Discuss and express an understanding of clinical applications of anatomy and physiology such as vaccination, diagnostic sampling, conducting physical examinations and treatment techniques in various species

