Course Information Form (CIF)

Course Code: VTT 150

Course Title: Veterinary Anatomy and Physiology

Department: Allied Health
Effective Date: Summer 2026
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 01.8301
Repeatability: 0

Credit Hours

Catalog Notation: 1-3-2
Credit Hour Distribution:

Lecture: 1	Lab: 3	Clinical: 0	**Total: 2**

General Course Information

Catalog Description

Veterinary anatomy and physiology course for VTT students: external anatomy, skeletal, muscular, nervous, cardiovascular, respiratory, endocrine, urinary, reproductive and digestive systems of the dog and cat.

General Course Objectives

Identify external anatomical features of the dog and cat; identify the anatomical structures of the skeletal, muscular, nervous, cardiovascular, respiratory, endocrine, urinary, reproductive, and digestive systems of the dog and cat. Describe basic physiology of these same systems.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 072

Prerequisites

Credit in BIO 111
Admission into the Veterinary Technology program

Methods of Evaluation

3-5 lecture exams, 3-5 lab practical exams, and 4-8 homework assignments.

Instructional Materials and Additional Supplies

Clinical Anatomy and Physiology for Veterinary Technicians, Colville and Bassert. Current Edition, Elsevier. 0323227937
Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians, Colville and Bassert. Current Edition, Elsevier. 978-0323294751

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
External Anatomy, Body Planes, and Anatomical Terms	1. Identify the external features of the dog and cat. 2. Illustrate the planes and regions of the body of the dog and cat. 3. Identify anatomical terms appropriately for relative positions, body cavities, and body regions.	1	2	0
Skeletal System	1. Identify the bones and major bony landmarks for the dog, cat, ruminant, and horse. 2. Compare cat bones with horse bones. 3. Describe the functions, types, and shapes of bones. 4. Identify joint types and actions.	1.5	7	0
Muscular System	1. Identify individual muscles on models and cat cadavers. 2. Describe general characteristics of the three types of muscle. 3. Describe muscle attachment types. 4. Identify primary action of muscles in major regions of the limbs.	2	9	0
Nervous System	1. Identify the structures of the brain, spinal cord, spinal and cranial nerves, and major somatic nerves in pictures and on specimens. 2. Explain organization of the nervous system. 3. Describe major functions of the structures of the brain, spinal cord, and select cranial and peripheral nerves.	2.5	4	0
Cardiovascular System	1. Recognize all components of the heart on sheep and cat specimens. 2. Identify all components of the heart on sheep and cat specimens. 3. Describe blood flow through the heart, pulmonary, and systemic circulation. 4. Recognize major blood vessels and identify them on cat cadavers. 5. Describe the anatomy and function of arteries, veins, and capillaries.	2	6	0
Respiratory System	1. Recognize the structures of the upper and lower respiratory tracts on images and cat cadavers. 2. Identify structures of the upper and lower respiratory tracts on images and cat cadavers. 3. Describe the process of inspiration and expiration. 4. Explain the functions of the components of the respiratory system.	1	2	0
Reproductive and Urinary Systems	1. Identify the structures of the reproductive and urinary systems of the dog and cat in images and on specimens. 2. Explain the primary functions of the kidneys. 3. Describe the basic functions of the remaining urinary system components, the male reproductive system components, and the female reproductive system components.	1.5	5	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Endocrine System	1. Identify the major endocrine glands on specimens and images. 2. Name the primary hormones produced by the major endocrine glands and their primary functions/effects. 3. Describe and identify the three methods that control hormone secretion. 4. Describe the relationship between the hypothalamus and the pituitary gland.	2.5	5	0
Digestive System	1. Identify the components of the digestive system and associated structures on models and cat cadavers. 2. Describe the basic structure and overall function of the digestive system components.	1	5	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
15	45	0