

# VT 118 : VETERINARY ANATOMY & PHYSIOLOGY II

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## Transcript title

Veterinary AP II

## Credits

4

## Grade mode

Standard letter grades

## Contact hours total

60

## Lecture hours

30

## Lab hours

30

## Prerequisites

[VT 101](#), [VT 102](#), [VT 103](#) and [VT 117](#).

## Corequisites

[VT 108](#), [VT 110](#), [VT 114](#).

## Description

Second of two courses covering the structure and function of animal bodies and the anatomical and physiological differences between domestic species. Continues the study of the interrelationship of organ systems, including the endocrine, reproductive, cardiovascular, lymphatic, digestive, respiratory, and urinary systems.

## Learning outcomes

1. Describe the anatomy of the ear and eye and the physiology of the special sense organs.
2. Identify the structure and describe the basic metabolic processes of the organ systems.
3. Describe the basic function and structure of the digestive system on a comparative basis between animal species and compare and contrast the digestive physiology of non-ruminants with ruminants.
4. Describe the structure and function of the endocrine system including clinically relevant hormones and the anatomical differences between species.
5. Describe the cardiovascular and lymphatic system structures, path of blood flow, and explain the differences between veins and arteries.
6. Explain the function of the upper and lower respiratory systems.
7. Describe the male and female reproductive system structure and function and compare between species of animals.

## Content outline

Lecture

I. Sense Organs

II. Cardiovascular System

III. Blood

IV. Lymph and Immunity

V. Respiratory System

VI. Digestive System

VII. Nutrients and Metabolism

VIII. Endocrine System

IX. Reproductive System

X. Pregnancy, Development, and Lactation

XI. Urinary System

Lab

I. Sense Organs

II. Peripheral Nerves/Vessels

III. Heart

IV. Blood, Internal Blood Vessels

V. Respiratory

VI. Digestive

VII. Endocrine

VIII. Reproductive

IX. Urinary

## Required materials

Textbook, Lab Manual and Veterinary Anatomy and Physiology Online Software.

## Grading methods

Assessment may include weekly homework, quizzes, lecture and lab exams.