

Veterinary Parasitology

Class

VTHT 2321

Study of parasites common to domestic animals including zoonotic diseases. Two hours lecture and three hours lab per week.

Honor Code

Students must abide by the Weatherford College Academic Honor Code (Honesty.) See college catalog.

Tasks

- A. Proper use and care of a microscope. (C19, C20, F10, F11)
 - 1. Prepare microscope slide for observation.
 - 2. Select appropriate objective power.
 - 3. adjust lighting appropriately.
 - 4. Properly clean, transport, and store microscope.
- B. Determine the proper laboratory test for diagnosis of common parasites. (C11, C12, C13, C18, F7, F10, F11)
 - 1. Describe appropriate use of fecal flotation, sedimentation and Baermann sedimentation and cellophane tape preparation.
 - 2. Provide examples of parasites diagnosed by each method.
 - 3. Compare and contrast methods of heartworm detection.
 - 4. Describe methods of detection of external parasites.
- C. Describe proper collection of samples for diagnostic testing. (C11, C12, C13, F7, F10, F11, F12)
 - 1. Describe available collection methods.
 - 2. Describe criteria used to determine ideal collection method.
 - 3. Collect samples for in-class analysis.
- D. Describe life cycles of internal and external parasites common to veterinary practice. (C11, C12, C13, F10, F11)
 - 1. Describe life cycles of common protozoa
 - 2. Describe life cycles of cestodes common in domestic animals.
 - 3. Describe life cycles of trematodes common in domestic animals.
 - 4. Describe life cycles of nematodes common in domestic animals.
- E. Describe disease conditions caused by common internal and external parasites. (C11, C12, C13, F10, F11)
 - 1. Describe common symptoms of parasitic diseases.
 - 2. Describe diseases carried by common internal and external parasites.
 - 3. Describe zoonotic diseases related to animal parasites.
- F. Identify common internal and external parasites. (C1, C3, C5, C10, C12, C18, C19, C20, F10, F11, F12)
 - 1. Identify, oocyst, ova, and larvae on fecal flotation.
 - 2. Identify common external parasites by gross and microscopic evaluation.
 - 3. Identify parasites grossly evident in fecal samples.
- G. Describe treatment and prevention of disease due to internal and external parasites. (C11, C12, C13, F10, F11)
 - 1. Determine appropriate medications for elimination or prevention of major forms of parasitism.
 - 2. Identify means of environmental control of parasites.
 - 3. Describe management practices used to decrease incidence of parasitism.

Competencies

- A. Proper use and care of a microscope
- B. Determine the proper laboratory test for diagnosis of common parasites.
- C. Describe proper collection of samples for diagnostic testing.
- D. Describe life cycle of internal and external parasites common in veterinary practice.
- E. Describe disease conditions caused by common internal and external parasites.
- F. Identify common internal and external parasites.

G. Describe treatment and prevention of disease due to internal and external parasites.

Required Textbooks

Hendrix, C. and Robinson, E. Diagnostic Parasitology for Veterinary Technicians, Mosby.

Instructional Methods

This course will consist of 2 lecture periods weekly. Laboratories will consist of instruction and practice in the performance of laboratory skills and collection methods. Reference texts and charts will be available aid in parasite identification and for study purposes. Review periods can be arranged at the students' request.

Grades will be based on the following

6 quizzes at 25 points each 150 pts.

Final exam 100 pts

Lab Practical 25 pts

Parasite List 25 pts

Evaluation of overall lab 25 pts performance including attitude, attentiveness and participation.

Exams and quizzes will include multiple choice, True/False, short answer and short essay questions.

The grading scale is as follows

90-100 % A

80- 90 % B

70-80 % C

60-70 % D

below 60% F

Disabilities**ADA Statement:**

Any student with a documented disability (e.g. learning, psychiatric, vision, hearing, etc.) may contact the Office on the Weatherford College Weatherford Campus to request reasonable accommodations. *Phone:* 817-598-6350
Office Location: Office Number 118 in the Student Services Building, upper floor. *Physical Address:* Weatherford College 225 College Park Drive Weatherford, TX.

Academic Integrity

Academic Integrity is fundamental to the educational mission of Weatherford College, and the College expects its students to maintain high standards of personal and scholarly conduct. Academic dishonesty of any kind will not be tolerated. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials including unauthorized use of Generative AI. Departments may adopt discipline specific guidelines on Generative AI usage approved by the instructional dean. Any student who is demonstrated to have engaged in any of these activities will be subject to immediate disciplinary action in accordance with institutional procedures.

SCANS

The Secretary's Commission on Achieving Necessary Skills (SCANS) identified competencies in the areas of Resources, Interpersonal, Information, Systems and Technology, and foundation skills in the areas of Basic Skills, Thinking Skills, and Personal Qualities. This Course is part of a program in which each of these competencies and skills are integrated. The specific SCANS competencies that are recognized throughout this course are noted at the end of the appropriate competencies or task listed.