

Course Competency

ATE 2638 ANIMAL LAB PROCEDURES 1

Course Description

This course is designed to introduce the veterinary technicians to common parasites and their life cycles seen in routine veterinary practice. Also, hematology and the kinetics of the hematopoietic system are discussed with emphasis on normal blood smears and common changes seen during disease stages of domestic animals. Prerequisites: ATE1110, 1211; corequisite: ATE 2638L. (3 hr lecture)

Course Competency	Learning Outcomes
<p>Competency 1:The student will demonstrate understanding of common clinical laboratory protocols by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking 3. Communication
<ol style="list-style-type: none"> 1. Explaining the pros and cons of the in-house versus the reference laboratory. 2. Producing accurate laboratory requests for the reference lab. 3. Enumerating the contents of the vacutainer system collection tubes according to cap color. 4. Entering patient identification data on tubes and vials for laboratory use. 5. Maintaining logbooks for lab tests in a clear, accurate manner. 6. Explaining how clinical laboratory procedures serve as an aid in diagnostic/ medical care. 7. Discussing the importance of normal and abnormal results. 8. Demonstrating the use of the conversion formulas. 9. Explaining the consequences of drug interactions with test results. 	
<p>Competency 2:The student will demonstrate understanding of the requirements for proper sample collection by:</p>	

<ol style="list-style-type: none"> 1. Demonstrating the different blood tests that require anticoagulant solutions. 2. Acquiring necessary skills to safely collect blood, fecal and other samples. 3. Identifying samples with owner and patient name, date, time of collection. 	
<p>Competency 3:The student will demonstrate understanding of the function of the hematology lab by:</p>	
<ol style="list-style-type: none"> 1. Demonstrating knowledge of collection, preparation, processing, and storage procedures for hematology samples. 2. Demonstrating the characteristics of the vacutainer. 3. Identifying in a blood smear, the normal and abnormal red and white blood cells and platelets 4. Evaluating hematological blood test results. 5. Discussing the manual versus automated hematology testing methods. 6. Identifying diseases of abnormal coagulation and the tests used for establishing a diagnosis. 7. Identifying normal values for common canine and feline. 	
<p>Competency 4:The student will demonstrate understanding of parasitology and coprological studies by:</p>	
<ol style="list-style-type: none"> 1. Explaining the procedure to follow when examining a stool sample. 2. Defining the macroscopic and microscopic parameters when examining fecal samples. 3. Preparing a slide for direct and flotation examination. 4. Defining terminology used when discussing parasite lifecycles 5. Identifying different classes of various parasites 6. Identifying Genus species of common canine and feline parasites 7. Recognizing prepatent periods for various 	

parasites

8. Explaining the different life cycles of intestinal and blood parasites.
9. Discussing the zoonotic and epidemiological potential of common intestinal parasites.
10. Recognizing various flotation solutions used for parasite examination and how to maintain their efficacy
11. Explaining control and prophylactic methods in parasitology, with emphasis on client education.

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