

# Course Competency

## ATE 2639L ANIMAL LAB PROCEDURES 2 LAB

### Course Description

This course provides experience in the practical applications discussed in Animal Laboratory Procedures 2. It will also include principles of serological testing and microbiological methods and protocols, as well as dentistry for the veterinary technician. Prerequisites: ATE 2638, 2638L; corequisite: ATE 2639. (4 hr. lab)

Course Competency	Learning Outcomes
<p><b>Competency 1:</b>The student will demonstrate understanding of the principles of clinical chemistry laboratory procedures by:</p>	<ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Numbers / Data</li> <li>3. Critical thinking</li> <li>4. Computer / Technology Usage</li> </ol>
<ol style="list-style-type: none"> <li>1. Identifying the various chemistry analyzers and their principle of operation.</li> <li>2. Obtaining and handling lab samples appropriately.</li> <li>3. Discerning the differences in the use of plasma, serum, and whole blood.</li> <li>4. Discussing how lipemia and hemolysis affect clinical chemistries.</li> <li>5. Recognizing and performing available diagnostic tests for organ function investigation.</li> <li>6. Demonstrating the use of serologic test kits available in veterinary clinical lab.</li> </ol>	
<p><b>Competency 2:</b>The student will become acquainted with laboratory practices in microbiology by:</p>	
<ol style="list-style-type: none"> <li>1. Demonstrating proper sample for microbiology sample preparation.</li> <li>2. Determining the correct and incorrect methods of obtaining samples for the microbiology lab.</li> <li>3. Demonstrating the principles in which</li> </ol>	

<p>culture and sensitivity studies are used.</p> <p>4. Recognizing various special culture media characteristics used in aerobic, anaerobic, fungal, viral and special studies.</p>	
<p><b>Competency 3:</b>The student will be able to identify and describe laboratory pocedures associated with performing a urinalysis by:</p>	
<ol style="list-style-type: none"> <li>1. Identifying and using laboratory equipment associated with performing a urinalysis.</li> <li>2. Handling urine samples using proper quality control measures necessary to obtain accurate urinalysis results.</li> <li>3. Performing a complete urinalysis and record results accurately.</li> </ol>	
<p><b>Competency 4:</b>The student will be to identify various laboratory methods used in assessing cytology in a veterinary laboratory by:</p>	
<ol style="list-style-type: none"> <li>1. Setting up and reading an ear cytology sample and identifying the various elements and recording them accurately.</li> <li>2. Identifying the stages of estrus and the elements associated with the various stages.</li> <li>3. Identifying characteristics of bone marrow macroscopically and microscopically.</li> </ol>	
<p><b>Competency 5:</b>The student will be able to discuss and identify ectopic parasites by:</p>	
<ol style="list-style-type: none"> <li>1. Identifying genus and species of the various ectopic parasites seen in dogs and cats.</li> <li>2. Identifying what supplies are needed to perform test associated with identification of ectoparasites.</li> <li>3. Describing how to perform test associated with identifying the various ectoparasites.</li> <li>4. Discussing microscopic objectives used in identification of parasites.</li> <li>5. Identifying the various treatments used to treat the various ectoparasites.</li> </ol>	

Updated: FALL TERM 2022