

SYLLABUS  
PART I  
EDISON STATE COMMUNITY COLLEGE  
VET 245S VETERINARY CLINICAL LABORATORY  
3 CREDIT HOURS

**COURSE DESCRIPTION**

Overview of hematology, clinical chemistry, immunology, microbiology, urinalysis, and cytology. Students will learn proper hands-on techniques over 48 designated laboratory hours. Prerequisite: VET 160S. Lab fee.

**COURSE GOALS**

The student will:

Bloom's Level		Program Outcomes
1	1. Identify the various procedures for evaluating urine, blood, and cytological samples.	1, 3
4	2. Analyze various patient samples using a variety of clinical laboratory procedures to produce results that aid in diagnosis.	1, 3
2	3. Identify common laboratory tests used to evaluate kidney, pancreatic, and liver functions, as well as other miscellaneous tests in small and large animals.	1, 3
5	4. Explain the significance of abnormal results in various tests and procedures.	1, 3
5	5. Explain bacterial and fungal identification procedures to aid in diagnosis.	1, 3
3	6. Develop proper techniques for preparing, handling, submitting, and testing samples for diagnostic analysis to ensure the accuracy of results.	1, 2, 3
3	7. Determine proper maintenance and quality control procedures necessary to ensure accurate results.	1, 2, 3

**CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State Community College. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives and activities in this course will introduce/reinforce those Core Values wherever appropriate.

**TOPIC OUTLINE**

1. Clinical laboratory equipment, supplies, and procedures: specimen collection/handling, microscopic evaluation, and other clinically significant procedures/tests and instruments to aid in diagnosis for the following:
  - a. Hematology
  - b. Clinical chemistry
  - c. Immunology
  - d. Microbiology
  - e. Cytology
  - f. Urinalysis