COURSE INFORMATION FORM

DISCIPLINE               Veterinary Technology
COURSE TITLE             Clinical Pathology Techniques I

CR.HR 4       LECT HR 1   LAB HR 6   CLIN/INTERN HR.   CLOCK HR.

CATALOG DESCRIPTION
Introduction to laboratory procedures including preparation of blood smears, cell identification, fecal analysis and parasitology, urinalysis and urine sediment evaluation.

PREREQUISITES
None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Explain basic concepts of laboratory procedures.
2. Identification common parasites of small animals.
3. Demonstrate the ability to perform certain laboratory procedures.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

Communication: Reading Skills (ESO)
3. Make accurate inferences and predictions based on evidence (1,2)
6. Make valid generalizations and apply information (1,2,3)

Critical Thinking: Sort and classify information
4. Distinguish the relevant from irrelevant and integrate key relationships (2)

Critical Thinking: Define, analyze, and evaluate information, materials and data
2. Construct valid inferences from facts, credible sources, experiences, anecdotes, and values and belief systems (1,2,3)

Life-Long Learning: Attributes of an Awareness of the Convergence of Knowledge
2. Apply learned skills to real world interactions (1,2,3)
3. Synthesize information to facilitate application (1,2,3)
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

The student will demonstrate:
1. the ability to communicate effectively and clearly with instructors regarding the treatment and care of animals
2. the ability to carry out the role and function of a Veterinary Technician
3. an understanding of the business role that technicians play in a veterinary hospital

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Lecture test (1,2)
2. Laboratory (written & practical) examinations (2,3)
3. Final examination (1,2)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Fecal analysis
   A. Tests for occult blood
   B. Gross examination of feces
   C. Tests for trypsin activity
   D. Examination for parasites
      1. Flotation, sediment, and other concentration techniques
      2. Parasitic worms, larvae and ova frequently seen in feces

II. Urinalysis
   A. Specimen collection and handling
   B. Routine urinalysis:
      1. Methods
      2. Significance
      3. Alterations in diseased states
   C. Composition of urine
   D. Formation of urine
   E. Anatomy of the urinary system
   F. Renal function tests

III. Hematology
   A. Specimen collection and handling
   B. Blood smears (preparation and staining)
   C. Composition of blood
   D. Normal blood values
   E. Enumeration of blood cells
   F. Differential counts
   G. Determination of hemoglobin concentration and packed cell volume
   H. Alterations in numbers, proportions, morphology, and maturity of white and red blood cells