

JEFFERSON COLLEGE

COURSE SYLLABUS

VAT267

Large Animal Technology II

3 Credit Hours

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VAT267 LARGE ANIMAL TECHNOLOGY II

I. CATALOG DESCRIPTION

- A. Prerequisites: VAT101, VAT106, VAT113, VAT114, VAT199, VAT250, VAT258 and VAT266 (all courses must be completed with a grade of “C” or better) and reading proficiency
- B. 3 semester hours credit
- C. Large Animal Technology II familiarizes the student with large animal diagnostic procedures, medical imaging, reproduction, neonatology, and noninfectious and infectious diseases. Species included are equine, bovine, caprine, porcine, ovine, camelids, and poultry. A laboratory session is included to allow students practice of techniques learned in the classroom. (S)
- D. Fulfills degree requirement for the Associate of Applied Science degree in Veterinary Technology

II. EXPECTED LEARNING OUTCOMES/ASSESSMENT MEASURES

Explain the indications for various diagnostic procedures, identify equipment needed for diagnostic procedures, and describe safety measures taken for routine diagnostic procedures	In-class exercises/discussions, laboratory assignments, exam, and final exam
List the three basic principles of radiation safety, compare and contrast the various types of medical imaging, recognize standard radiographic views, and label an imaging study	In-class exercises/discussions, student reflection on guest speaker presentation/demonstration, laboratory assignments, exam, and final exam
Explain reproduction basics as they apply to large animal species and describe management and control of reproduction in the normal animal	In-class exercises/discussions, exam, and final exam
Describe passive transfer of immunoglobulins and how this affects neonates, list body systems assessed during the perinatal period, list clinical signs of prematurity, and describe the types of systems that are used to deliver medications and treatments to neonates	In-class exercises/discussions, exam, and final exam
Students will list causative agents, describe clinical signs, outline preventative methods, describe treatments available, and understand zoonotic potential of large animal diseases	In-class exercises/discussions, laboratory assignments, exam, and final exam

III. COURSE OUTLINE

- A. Diagnostic Procedures
 1. Abdominocentesis
 2. Arthrocentesis
 3. Bronchiolar alveolar lavage (BAL)
 4. Biopsies
 5. Cerebral spinal fluid tap (CSF)
 6. Coagulation studies
 7. Dermatology
 8. Electrocardiogram
 9. Endoscopy
 10. Milk cultures
 11. Thoracocentesis
 12. Transtracheal wash

- B. Medical Imaging
 1. Safety and quality
 2. Radiography
 3. Nuclear scintigraphy
 4. Ultrasonography
 5. Magnetic resonance imaging
 6. Computed tomography

- C. Reproduction
 1. Anatomy and physiology of reproduction
 2. Clinical exam of the male and female for breeding soundness
 3. Reproductive disorders
 4. Reproductive management

- D. Neonatology
 1. Perinatal period
 2. Neonatal infections
 3. Premature neonates
 4. Nursing care

- E. Diseases
 1. Causative agents
 2. Clinical signs
 3. Preventative methods
 4. Treatments
 5. Zoonotic potential

IV. METHOD(S) OF INSTRUCTION

- A. Lectures including guest speaker presentation
- B. Laboratory assignments including live animal models
- C. In-class exercises/discussions
- D. Homework Assignments
- E. Textbooks
- F. Audio-visual aids

V. REQUIRED TEXTS

- A. Holtgrew-Bohling, Kristin, *Large Animal Clinical Procedures for Veterinary Technicians*, Elsevier Publishing (Current Edition)

VI. REQUIRED MATERIALS

- A. Boots

VII. SUPPLEMENTAL REFERENCES

- A. McCurnin, D., *Clinical Textbook for Veterinary Technicians* (Current Edition), St. Louis: Saunders Publishing

VIII. METHOD(S) OF EVALUATION

- A. Distribution of Final Grade

There are written exams/quizzes, in-class exercises/discussions, homework assignments and a comprehensive final, all of which comprise the final lecture grade.

Laboratory participation, laboratory assignments, and animal care duties comprise the final laboratory grade.

A student must independently pass both the lecture portion and the laboratory portion of each class to advance in the program.

Class participation, diligence in animal care assignments, and attendance are expected of the students, however, the instructor reserves the right to award or detract percentage points based on these attributes.

B. Assignment of Final Letter Grades

A = 93-100

B = 84-92

C = 75-83

D = 60-74

F = below 60

C. Attendance Policy

Student attendance is mandatory. There are no excused absences. If a student misses more than 15% of the total time (including lecture and laboratory) that the class meets in a semester, the student may be prohibited from attending the class by the instructor. In such cases, the student must officially withdraw from the course, by the designated withdrawal date, in order to reduce the possibility of receiving an "F" for the course.

Tardiness beyond 10 minutes is considered an absence.

Students are permitted to miss one exam date with no penalty. Make up exams are taken in the Testing Center within 3 days of the original exam.

The instructor may make exceptions to this policy in certain cases, i.e., illness requiring hospitalization, death in the family, etc.

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Technology Center 101; phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website <http://www.jeffco.edu>).

XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participating for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participation in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically-related activities such as reading, studying, and completing assignments. Specifically, time spent on academically-related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.

Since this class is a face-to-face, 16-week, 3 credit hour class, the expectation is that 112.5 hours be spent on academically-related activities over the 16-week period. The class meets face-to-face for 52.5 hours over the 16 weeks, so it is expected that 60 hours be spent on outside-of-class activities. This means you should spend about 4 hours each week reading the textbook, completing assignments, studying for exams, etc.