

**JEFFERSON COLLEGE**

**COURSE SYLLABUS**

**VAT256**

**VETERINARY HOSPITAL TECHNOLOGY II**

5 Credit Hours

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## VAT256 Veterinary Hospital Technology II

### I. CATALOGUE DESCRIPTION

- A. Pre-requisites: VAT101 Introduction to Veterinary Tech, VAT106 Applied Pharmacology, VAT113 Principles of Clinical Medicine I, VAT114 Principles of Clinical Medicine II, VAT199 Veterinary Technology Internship, VAT250 Veterinary Hospital Technology I, VAT258 Clinical Pathological Techniques, and VAT266 Large Animal Technology I (all courses must be completed with a grade of “C” or better) and Reading Proficiency  
Co-requisites: VAT252 Applied Radiology and VAT264 Lab Animal Technology
- B. 5 Semester Credit Hours
- C. Veterinary Hospital Technology II is a lecture/laboratory course and is a continuation of Veterinary Hospital Technology I with concentration on general hospital skills, surgical technology, management practices, record keeping, and practical clinical experience. (S)
- D. Fulfills degree requirement for the Associate of Applied Science degree in Veterinary Technology

### II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

Perform nail trimming and describe hemostasis techniques; demonstrate ear and eye examinations, medicating, and diagnostic techniques; and demonstrate a rectal examination and appropriate anal gland care	In-class exercises, homework assignments, quizzes, laboratory assignments, laboratory practical exam, and final exam
Explain the principles of clinical nutrition and describe methods of providing therapeutic enteral and parenteral nutrition	In-class exercises, homework assignments, quizzes, laboratory assignments, and final exam
Summarize the reproductive system in dogs and cats; compare and contrast the canine and feline estrous cycles, gestation, and parturition; explain the different methods of pregnancy diagnosis; and explain the timeline of normal development, discuss how to perform diagnostic procedures, determine appropriate times to give medical treatments, and explain common concerns/disorders in neonatal puppies and kittens	In-class exercises, homework assignments, quizzes, and final exam
Explain the etiology and pathogenesis of common infectious and non-infectious diseases in dogs and cats; and identify common clinical signs, diagnostic procedures, and common treatments of non-infectious diseases and infectious diseases in dogs and cats	In-class exercises, homework assignments, quizzes, and final exam
List common indications for veterinary rehabilitation and compare and contrast the physical therapy	In-class exercises, homework assignments, quizzes, and final exam

modalities used in veterinary rehabilitation; and list common assistive devices commonly used for animal patients	
Describe respiratory disorders seen in critically ill small animal patients and describe methods used to monitor critically ill patients and the principles of effective patient monitoring	In-class exercises, homework assignments, quizzes, laboratory assignments, and final exam
Describe the principles of wound healing and proper wound management techniques; apply basic bandages, splints, and slings and explain the proper use of each	In-class exercises, homework assignments, quizzes, laboratory assignments, laboratory practical exam, and final exam
Describe the principles of and demonstrate surgical assistance for small animal elective surgeries; describe the principles of non-elective, emergency, and orthopedic small animal surgeries	In-class exercises, homework assignments, quizzes, laboratory assignments, laboratory practical exam, and final exam
Define terminology in veterinary dentistry to designate location and direction; describe modified Triadan system for numbering teeth; describe normal and abnormal occlusion in dogs and cats; discuss aspects of the complete medical history and oral examination; describe equipment and supplies used in dental radiography; differentiate between the types of periodontal disease; describe equipment and procedures for power and hand scaling and polishing; compare and contrast regional nerve blocks; explain the grading system for periodontal disease and the importance of home care; discuss indications for restorative dentistry, endodontics, and exodontics; and describe common dental problems seen in small animals	In-class exercises, homework assignments, quizzes, laboratory assignments, and final exam

### III. OUTLINE OF TOPICS

#### D. History and Physical Examination

1. Physical exam of nails and nail trimming
2. Ear anatomy, examinations, cleaning, medicating, and diagnostic techniques
3. Eye anatomy, examinations, medicating, and diagnostic techniques
4. Rectal examination and anal gland care

#### E. Small Animal Nutrition

1. Assisted feeding
2. Enteral assisted feeding
3. Parenteral assisted feeding

#### F. Animal Reproduction (Theriogenology)

1. Estrous cycle, gestation, and parturition of the canine
2. Estrous cycle, gestation, and parturition of the feline

3. Methods of pregnancy diagnosis

- G. Neonatal Care of the Puppy and Kitten
  - 1. Physical examination
  - 2. Normal development
  - 3. Diagnostics
  - 4. Routine maintenance
  - 5. Common concerns and disorders in the puppy and kitten
  
- H. Small Animal Medical Nursing
  - 1. Respiratory disease
  - 2. Cardiovascular disease
  - 3. Digestive and hepatobiliary diseases
  - 4. Urinary disease
  - 5. Endocrine disease
  - 6. Reproductive disease
  - 7. Disease of the eyes, ears, and skin
  - 8. Infectious disease
  - 9. Cancer
  - 10. Seizure disorders
  
- I. Physical Therapy and Rehabilitation
  - 1. Exercise-based therapy
  - 2. Therapeutic exercises
  - 3. Hydrotherapy
  - 4. Land treadmill
  - 5. Manual therapies
  - 6. Passive range of motion
  - 7. Assistive devices
  
- J. Emergency and Critical Care Nursing
  - 1. Advanced emergency techniques
  - 2. Respiratory system support and oxygen therapy
  - 3. Patient monitoring
  - 4. Care of the recumbent patient
  
- K. Wound Management and Bandaging
  - 1. Small animal wound management
  - 2. Principles of bandaging
  - 3. Bandage, cast, splint, and sling application in small animals
  
- L. Small Animal Surgical Nursing
  - 1. Surgical preparation and animal positioning
  - 2. Common surgical procedures
  - 3. Elective versus nonelective surgery
  - 4. Tail docking and dewclaw removal in adult

5. Feline Onychectomy
  6. Celiotomy
  7. Gastric dilatation volvulus (GDV)
  8. Ovariohysterectomy in the dog and cat
  9. Pyometra
  10. Canine castration
  11. Feline castration
  12. Cesarean delivery
  13. Cystotomy, urethrostomy, and hernias
  14. Lumpectomy and removal of mammary neoplasia
  15. Amputation
  16. Orthopedic surgery
- M. Veterinary Dentistry
1. Dental morphology
  2. Oral examination and history
  3. Dental radiography
  4. Periodontal disease
  5. Power scaling, hand scaling, and polishing
  6. Regional nerve blocks for oral surgery in dogs and cats
  7. Periodontal surgery
  8. Home care
  9. Restorative dentistry
  10. Endodontics and exodontics
  11. Common dental problems in dogs and cats

#### IV. METHOD(S) OF INSTRUCTION

- A. Lectures
- B. Laboratory assignments including live animal models
- C. In-class exercises
- D. Homework Assignments
- E. Textbooks
- F. Audio-visual aids
- G. Out-Rotations to Local Veterinary Specialty Practices

#### V. REQUIRED TEXTBOOK(S)

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

## VI. REQUIRED MATERIALS

Appropriate Laboratory Attire (Scrubs)

## VII. SUPPLEMENTAL REFERENCES

Thomas, J. and Lerche, P., *Anesthesia and Analgesia for Veterinary Technicians*, (Current edition). St. Louis: Mosby Publishing

## VIII. METHOD OF EVALUATION

### D. Distribution of Final Grade

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

Laboratory participation, laboratory assignments, and a laboratory practical examination 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 and attendance are expected of the students and the instructor reserves the right to award or detract percentage points based on these attributes.

### E. Assignment of Final Letter Grades

A = 93-100

B = 84-92

C = 75-83

D = 60-74

F = below 60

### F. Attendance Policy

Student attendance is mandatory. There are no excused absences. If a student misses more than 15% of the total time 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

Students earn their financial aid by regularly attending and actively participating 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. Student's grade will also be based on participation in class and attendance.