JEFFERSON COLLEGE

COURSE SYLLABUS

VAT108

CLINICAL APPLICATIONS

5 Credit Hours

Prepared by: Charlie Roberts, RVT Revised Date: 08/12

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Dr. Mary Beth Ottinger, Division Chair, Business & Technical Education
VAT108 Clinical Applications

I. CATALOGUE DESCRIPTION

A. Pre-requisite: Reading proficiency and completion of the first semester veterinary assistant program VAT103 Animal Care and VAT102 The Veterinary Profession with a grade of “C” or better
Co-requisite: VAT107 Hospital Care

B. 5 Semester Hours Credit

C. The Clinical Application class provides students the technical skills needed to work in the veterinary profession. The course provides comprehensive instruction on collecting samples, laboratory testing, administering medications, nutritional care, and nursing care, the surgical patient, radiology, and euthanasia. (S)

II. EXPECTED LEARNING OUTCOMES/ASSESSMENT MEASURES

| Students will recognize correct techniques for collecting, handling and preparing samples. Students will perform the proper methods of collection and handling samples in a laboratory setting | In-class exercises, homework assignments, quizzes, laboratory activities, observation hours, and final exam |
| Students will perform proper techniques for performing laboratory testing. Students will recognize normal and abnormal results on laboratory test for canine and feline patients | In-class exercises, homework assignment, quizzes, exam, final exam, observation hours, and instructor observation in laboratory sessions |
| Students will perform the proper methods of administering medication orally, topically, ophthalmic, and aural. Students will recognize methods of proper and improper administration of canine and feline patients. Students will understand the importance of keeping careful hospital records | In-class exercises, quizzes, observation hours, instructor observation in laboratory sessions, and final exam |
| Students will recognize signs of animal disease and perform the recommended procedures for providing basic nursing care needs to canine and feline patients. Students will recognize warning signs for surgical complications | In-class exercises, laboratory sessions with instructor observation, class field trips, observation hours, exam, and final exam |
| Students will identify the basic nutrient requirements of dogs and cats in various life stages, know the adequacy of different animal diets by reading the label information, and know the various dietary specifications required by different disease conditions | In-class exercises, homework assignments/case studies, exam, and final exam |
| Students will recognize adequate care of the surgical patient. Students will perform the proper methods of providing nursing care to the surgical patient in a clinic setting | In-class exercises, homework assignments, class field trips, observation hours, and final exam |
| Students will recognize safety and management of radiology equipment and procedures. Students will perform the proper methods of animal positioning, developing of films, record keeping, and care of radiology equipment | In-class exercises, homework assignments, observation hours, instructor observed laboratory activities, exams, and final exam |
| Students will recognize the patient and client needs during the euthanasia process. Students will aid in educating clients during the grief process | In-class exercises, homework assignments, exams, and final exam |

### III. Outline of Topics

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<thead>
<tr>
<th><strong>A. Sample Collection</strong></th>
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<tbody>
<tr>
<td>1. Feces</td>
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<td>2. Skin scrapings</td>
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<td>3. Ear swabs</td>
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<td>4. Blood collection tube types</td>
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<td>5. Blood collection</td>
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<thead>
<tr>
<th><strong>B. Basic Anatomy</strong></th>
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<tr>
<td>1. Digestive system</td>
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<td>2. Respiratory system</td>
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<td>3. Nervous system</td>
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<td>4. Musculoskeletal system</td>
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<td>5. Reproductive system</td>
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<th><strong>C. Laboratory Test</strong></th>
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<td>1. Heartworm tests</td>
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<td>2. Fecal analysis</td>
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<td>3. Urine analysis</td>
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<td>4. PCV, TP, CBC, blood smear, stain, chemistry</td>
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<th><strong>D. Administration of Medication</strong></th>
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<td>1. Topical</td>
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<td>2. Oral (Enteral)</td>
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<td>3. Parenteral</td>
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<td>a. SQ injections</td>
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<td>b. IM injections</td>
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<td>c. SQ fluids</td>
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E. Nutrition
   1. Canine
   2. Feline
   3. Feeding the patient
   4. Nutritional route alternatives

F. Nursing Care
   1. Recumbent patient
   2. Eliminations
   3. Fluid and catheter management
   4. Wound management
   5. Charting notations
   6. Exercise and socialization requirements
   7. Patient comfort
   8. Bandaging
   9. Emergency support

G. Surgical Patient
   1. Patient preparation
   2. Surgical scrub
   3. Monitoring post-surgically
   4. Protecting incisions
   5. Recognizing patient special needs
   6. Common surgical procedures

H. Radiology
   1. Technique charts
   2. Patient positioning
   3. Film processing

I. Euthanasia
   1. Aiding the client
   2. Grief process
   3. Follow through

IV. METHOD(S) OF INSTRUCTION

A. Lecture

B. Laboratory sessions

C. Textbooks

D. PowerPoint presentations
E. Live animal models for laboratory instruction
F. Observation hours
G. Fieldtrips

V. REQUIRED TEXTBOOK(S)


VI. REQUIRED MATERIALS

A. Textbooks, Audio-Visual Aids
B. Handouts Prepared by the Instructor
C. Appropriate Laboratory Attire (Scrubs)

VII. SUPPLEMENTAL REFERENCES

Materials for research projects are available in Jefferson College Library and within the Veterinary Technology Department. Journals within the department are kept for student use.

VIII. METHOD(S) OF EVALUATION

A. Distribution of Final Grade

There are written examinations, homework assignments, observation hours, attendance, participation and a comprehensive final examination which will comprise the final grade. Attendance and class participation are expected of the students. The instructor reserves the right to award or detract percentage points based on student class performance and professionalism.

Students are required to perform the 30 hours of observation in order to pass this course. The student will receive an F if this requirement is not met regardless of the student’s academic standing. Students are required to secure an animal care facility or veterinary hospital/clinic to obtain required observation hours. The instructor will verify student placement and inform the facility of required and recommended information/skills to be included in the observation hours.

Students are expected to complete the course with at least a grade of C. Students who make a grade below C will be dropped from the program.
and invited to re-enroll and thus repeat the course the following year.

Any student found in noncompliance with the Jefferson College Academic Honesty Policy as delineated in the Jefferson College and Veterinary Assistant Student Handbooks will receive a grade of F regardless of concurrent academic standing.

B. Assignment of Final Letter Grades

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = below 60

C. Attendance Policy

Student attendance is mandatory. There are no excused absences. Two lecture classes can be missed with no penalty. Eight or more lecture absences or two or more lab absences result in a grade of an F for the course. Lab Sessions cannot be made up, regardless of the reason for absence.

Students are permitted to miss one exam date with no penalty (this will still count as an unexcused absence). Make up exams are taken in the Testing Center within 3 days of the original exam. For each subsequent exam missed, the student is penalized 10% of the total value of that exam (one letter grade).

Failure in assigned animal care duties or failure in ANY assigned clinical duties results in the loss of one lab grade. (this is any duties involving the care of the animals).

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 (Library 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 participation 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 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.

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.