VT-2200: DENTISTRY FOR VETERINARY TECHNICIANS

Cuyahoga Community College

Viewing: VT-2200 : Dentistry for Veterinary Technicians

Board of Trustees:
2017-05-26

Academic Term:
2017-08-24

Subject Code
VT - Veterinary Technology

Course Number:
2200

Title:
Dentistry for Veterinary Technicians

Catalog Description:
Fundamentals of veterinary dentistry. Students learn how to perform oral cavity assessments, routine dental cleaning, dental charting, and client education, and assist with advanced dental procedures.

Credit Hour(s):
1

Lecture Hour(s):
1

Requisites

Prerequisite and Corequisite
VT-1600 Veterinary Surgical Nursing and Assisting, and BIO-1420 Anatomy and Physiology of Domestic Animals II.

I. ACADEMIC CREDIT

Academic Credit According to the Ohio Department of Higher Education, one (1) semester hour of college credit will be awarded for each lecture hour. Students will be expected to work on out-of-class assignments on a regular basis which, over the length of the course, would normally average two hours of out-of-class study for each hour of formal class activity. For laboratory hours, one (1) credit shall be awarded for a minimum of three laboratory hours in a standard week for which little or no out-of-class study is required since three hours will be in the lab (i.e. Laboratory 03 hours). Whereas, one (1) credit shall be awarded for a minimum of two laboratory hours in a standard week, if supplemented by out-of-class assignments which would normally average one hour of out-of-class study preparing for or following up the laboratory experience (i.e. Laboratory 02 hours). Credit is also awarded for other hours such as directed practice, practicum, cooperative work experience, and field experience. The number of hours required to receive credit is listed under Other Hours on the syllabus. The number of credit hours for lecture, lab and other hours are listed at the beginning of the syllabus. Make sure you can prioritize your time accordingly. Proper planning, prioritization and dedication will enhance your success in this course.

The standard expectation for an online course is that you will spend 3 hours per week for each credit hour.

II. ACCESSIBILITY STATEMENT

If you need any special course adaptations or accommodations because of a documented disability, please notify your instructor within a reasonable length of time, preferably the first week of the term with formal notice of that need (i.e. an official letter from the Student Accessibility Services (SAS) office). Accommodations will not be made retroactively.

For specific information pertaining to ADA accommodation, please contact your campus SAS office or visit online at http://www.tri-c.edu/accessprograms/. Blackboard accessibility information is available at http://access.blackboard.com.

Eastern (216) 987-2052 - Voice
Metropolitan (216) 987-4344 – Voice. (216) 987-4048 – TTY.
Western (216) 987-5079 – Voice. (216) 987-5117 – TTY.
Westshore (216) 987-3900 – Voice. (216) 987-4048 – TTY.
III. ATTENDANCE TRACKING

Regular class attendance is expected. Tri-C is required by law to verify the enrollment of students who participate in federal Title IV student aid programs and/or who receive educational benefits through other funding sources. Eligibility for federal student financial aid is based in part on enrollment status.

Students who do not attend classes for the entire term are required to withdraw from the course(s). Additionally, students who withdraw from a course or stop attending class without officially withdrawing may be required to return all or a portion of their financial aid based on the date of last attendance. Students who do not attend the full session are responsible for withdrawing from the course(s).

Tri-C is responsible for identifying students who have not attended a course before financial aid funds can be applied to students’ accounts. Therefore, attendance is recorded in the following ways:

- For in-person and blended-learning courses, students are required to attend the course by the 15th day of the semester (or equivalent for terms shorter than five weeks) to be considered attending. Students who have not met all attendance requirements for in-person and blended courses, as described herein, within the first two weeks or equivalent, will be considered not attending.

- For online courses, students are required to login at least two times per week and submit one assignment per week for the first two weeks of the semester, or equivalent to the 15th day of the term. Students who have not met all attendance requirements for online courses, as described herein, within the first two weeks or equivalent, will be considered not attending.

At the conclusion of the first two weeks of a semester or equivalent, instructors report any registered students who have “Never Attended” a course. Those students will be administratively withdrawn from that course. However, after the time period in the previous paragraphs, if a student stops attending a class or wants or needs to withdraw, for any reason, it is the student’s responsibility to take action to withdraw from the course. Students must complete and submit the appropriate Tri-C form by the established withdrawal deadline.

Tri-C is required to ensure that students receive financial aid only for courses that they attend and complete. Students reported for not attending at least one of their registered courses will have all financial aid funds held until confirmation of attendance in registered courses has been verified. Students who fail to complete at least one course may be required to repay all or a portion of their federal financial aid funds and may be ineligible to receive future federal financial aid awards. Students who withdraw from classes prior to completing more than 60 percent of their enrolled class time may be subject to the required federal refund policy.

If illness or emergency should necessitate a brief absence from class, students should confer with instructors upon their return. Students having problems with coursework due to a prolonged absence should confer with the instructor or a counselor.

IV. LEARNING OUTCOMES ASSESSMENT

Occasionally, in addition to submitting assignments to their instructors for evaluation and a grade, students will also be asked to submit completed assignments, called ‘artifacts,’ for assessment of course and program outcomes and the College's Essential Learning Outcomes (ELOs). The artifacts will be submitted in Blackboard or a similar technology. The level of mastery of the outcome demonstrated by the artifact DOES NOT affect the student’s grade or academic record in any way. However, some instructors require that students submit their artifact before receiving their final grade. Some artifacts will be randomly selected for assessment, which will help determine improvements and support needed to further student success. If you have any questions, please feel free to speak with your instructor or contact the Learning Outcomes Assessment office.

V. CONCEALED CARRY STATEMENT

College policy prohibits the possession of weapons on college property by students, faculty and staff, unless specifically approved in advance as a job-related requirement (i.e., Tri-C campus police officers) or, in accordance with Ohio law, secured in a parked vehicle in a designated parking area only by an individual in possession of a valid conceal carry permit.

As a Tri-C student, your behavior on campus must comply with the student code of conduct which is available on page 29 within the Tri-C student handbook, available athttp://www.tri-c.edu/student-resources/documents/studenthandbook.pdfYou must also comply with the College's Zero Tolerance for Violence on College Property available athttp://www.tri-c.edu/policies-and-procedures/documents/3354-1-20-10-zero-tolerance-for-violence-policy.pdf

Outcomes

Course Outcome(s):
Evaluate and document oral and dental health and disease using dental charts and diagrams.

Objective(s):
1. Identify normal dental anatomy, dentition, and occlusion in common domestic species.
2. Assess the oral cavity and differentiate normal from abnormal findings.
3. Assess sulcus depth, and calculus, plaque, gingivitis, periodontal disease, and tooth mobility using dental indices.
4. Identify individual teeth using the Triadan system.
5. Complete dental records and charts according to standards of contemporary practice.
Course Outcome(s):
Perform routine dental cleaning using hand and power instrumentation and assist with non-routine dental procedures.

Objective(s):
1. Polish the teeth using power equipment.
2. Perform post-operative care required to prepare the patient for release from the hospital.
3. Assist with advanced periodontal treatment including gingivectomies and gingival flaps.
4. Assist with advanced dental procedures including surgical extractions and endodontic procedures.
5. Identify and explain safety and anesthetic considerations for dental procedures.
6. Select, set-up, operate, and maintain hand and power dental equipment.
7. Coordinate pain management protocols for dental procedures.
8. Remove dental plaque and calculus using hand instruments and power ultrasonic and piezoelectric scalers.

Course Outcome(s):
Provide client education regarding home dental care and prevention.

Objective(s):
1. Educate clients regarding the benefits of dental services.
2. Explain how to prevent dental disease using nutritional, mechanical, and pharmacologic methods.
3. Educate clients regarding dental services provided, home care following a dental procedure, and disease prevention.

Course Outcome(s):
Recognize and describe common dental diseases in domestic animals.

Objective(s):
1. Explain signs of, pathogenesis of, and treatment of periodontal disease.
2. Describe the common hereditary malocclusions and dental conditions of dogs and cats.
3. Identify gingivitis, dental trauma, and occlusal problems in the dog and cat.
4. Describe the indications for tooth extraction and perform a closed extraction in a dog or cat under veterinary supervision.
5. Explain the role of advanced endodontics and orthodontics and the value of patient referral.

Methods of Evaluation:
1. Quizzes
2. Unit and final lecture examinations
3. Homework assignments
4. Presentations
5. Participation

Course Content Outline:
1. Veterinary dentistry (small animals only)
2. Dental anatomy
   a. Tooth
   b. Periodontium
   c. Gingival tissues
   d. Oral mucosa
   e. Normal dentition and occlusion
3. Positional terminology
4. Tooth identification
   a. Triadan system
5. Oral Examination and Charting
   a. Plaque and calculus
   b. Clinical signs of disease
   c. Measuring sulci and pockets
   d. Assessment of gingival recession and attachment loss
   e. Assessment of the tooth surface
6. Dental charting
   a. Plaque index
   b. Calculus index
c. Gingivitis index
   d. Mobility index
   e. Furcation exposure index
   f. Commonly used symbols

7. Periodontal disease
   a. Definition
   b. Pathophysiology
   c. Classification system
   d. Treatment

8. Dental cleaning
   a. Safety issues
   b. Instrumentation
      i. Ultrasonic scalers
      ii. Hand instruments
      iii. Equipment for polishing and drilling
   c. Removing supragingival calculus
      i. Ultrasonic scaling
      ii. Hand scaling
   d. Removing subgingival calculus
      i. Subgingival planing and curettage
   e. Checking for missed plaque and calculus
   f. Polishing
   g. Sulcus irrigation
   h. Fluoride treatment
      i. Prevention of dental disease
         i. Home care and client education
         ii. Home care products
         iii. Mechanical prevention
         iv. Dietary prevention
         v. Toys and chews

9. Exodontics
   a. The technician’s role in exodontics
   b. Instrumentation
   c. Closed vs. open extractions
   d. Extraction techniques

10. Advanced Treatment Modalities
    a. Periodontal surgery
    b. Endodontics

11. Dental diseases
    a. Developmental diseases
       i. Retained deciduous teeth
       ii. Malocclusions
       iii. Diseases of the enamel
    b. Dental trauma
    c. Oral tumors
    d. Congenital abnormalities
    e. Gingivitis/stomatitis
    f. Feline dental resorptive lesions
    g. Abscessed teeth
    h. Gingival hyperplasia

Resources


Holmstrom, Steven, Jan Bellows, Stephen Juriga, et al. "2013 AAHA Dental Care Guidelines for Dogs and Cats" 03 01. 2013-08-27 22:00:00.0.

**Resources Other**
- Clinician’s Brief: http://www.cliniciansbrief.com/
- Veterinary Learning Systems: https://www.vetlearn.com/
- DVM360: http://www.dvm360.com/

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