

Discipline: Agriculture	Sub-discipline: Veterinary Technician
General Course Title: Veterinary Dental and Surgical Assistance	Min. Units: 3 Semester
Proposed Suffix:	
Course Description: Veterinary Technician preparation for surgery, surgery assistance, surgical and dental instruments and packs, anesthesia induction, monitor and anesthetic machine maintenance, anatomy of the mouth and dental arcade, dental prophylaxis and extractions.	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
Course Objectives: <i>At the conclusion of this course, the student should be able to:</i> <ul style="list-style-type: none"> • Identify, care for and sterilize surgical instruments used in veterinary medical practice. • Demonstrate practices used in personal hygiene when preparing to assist in surgery. • Prepare a patient for surgery. • Suture a skin incision. • Record surgical and anesthetic procedure. • Perform endotracheal intubation. • Select and administer appropriate anesthetics using approved techniques. • Identify dental anatomy for various animal species by physical examination. • Identify, select and use dental instruments. • Perform dental prophylaxis. • Maintain, clean and disinfect dental instruments. • Extract a tooth. 	
Course Content: <ol style="list-style-type: none"> 1. Identify and care for surgical instruments <ol style="list-style-type: none"> a. Commonly used surgical instruments b. Clean, rinse and dry instruments c. Appropriately package and label instruments d. Methods of sterilization <ol style="list-style-type: none"> 1) Gas 2) Steam 3) Cold 2. Preparation for surgery <ol style="list-style-type: none"> a. Personal hygiene and surgical technique b. Identify surgical procedures c. Position the patient d. Prepare surgical site <p>Veterinary Dental and Surgical Assistance (Content Continued)</p> <ol style="list-style-type: none"> 3. Suturing <ol style="list-style-type: none"> a. Suture materials, selection and characteristics b. Suture pattern, selection and characteristics c. Suture technique <ol style="list-style-type: none"> 1) Tension 2) Spacing 	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

3) Knots

- 4. Recording surgical and anesthetic procedures
 - a. Identify and describe the procedure
 - b. Record complications
 - c. Record anesthesia information
 - d. Narcotic log
- 5. Endotracheal intubation
 - a. Select appropriate intubation equipment
 - b. Anatomical landmarks
 - c. Inserting and securing tube
 - d. Evaluate tube placement
- 6. Anesthesia
 - a. Barbituate agents
 - 1) Properties
 - 2) Preparation
 - 3) Administration
 - 4) Monitoring
 - b. Non-barbituate general anesthetic
 - 5) Properties
 - 6) Preparation
 - 7) Administration
 - 8) Monitoring
 - c. Gas anesthetics
 - d. Local anesthetics
- 7. Identify dental anatomy
 - a. Physical exam procedures
 - b. Occlusion patterns
 - c. Normal wear
 - d. Dental formulas
 - e. Comparative anatomy between species
- 8. Dental instrumentation
 - a. Principles of hand and power instruments
 - b. Care, sharpening, disinfection, sterilization and lubrication

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture
Comprehensive Quizzes and Exams
Written Critical Thinking Scenarios
Problem Analysis and Solution
Research and Term Papers

Methods of Evaluation: Laboratory
Laboratory Skill Validation by Observation
Laboratory Reports
Diagnoses and Problem Solving
Laboratory Skill Practicum
Certification Exams

Typical Textbooks, Manuals, or Other Support Materials

Veterinary Technician's Daily Reference Guide, Jack, Candyce M., Watson, Patricia M., Lippincott, Williams & Wilkins, 2003.
Clinical Textbook For Veterinary Technicians, 4th Edition, McCurnin, Dennis M., D.V.M.M.S., W.B. Saunders, 1998

Statewide Articulation: Under review	
FDRG Lead Signature:	Date:
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