

Course discipline/number/title: VT 1410: Veterinary Surgical Nursing and Anesthesia

A. CATALOG DESCRIPTION

1. Credits: 2
2. Hours/Week: 1 lecture, 2 lab
3. Prerequisites (Course discipline/number): BIOL 1220, VT 1220, VT 2020, VT 2910
4. Other requirements: To enroll in the course a grade of C or better is required for previously required courses.
5. MnTC Goals (if any): NA

B. COURSE DESCRIPTION: This course is designed to give students a foundation in the principles of routine veterinary surgical assisting. Emphases will include instrumentation, aseptic technique, surgical support equipment, proficiency in the proper preparation of the operating room and general nursing care. The course will also cover basic anesthetic principles and monitoring. Attendance is required.

C. DATE LAST REVISED (Month, year): December, 2023

D. OUTLINE OF MAJOR CONTENT AREAS:

1. Sterilization and disinfecting
2. Surgical instruments
3. Instrument care and pack preparation
4. Patient preparation
5. Surgical scrubbing
6. Operating room procedures
7. Anesthesia
8. Monitoring devices

E. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. List the different ways that microbial control methods destroyed or inhibit pathogenic microorganisms.
2. Identify categories of physical methods of microbial control.
3. Identify common surgical instruments and describe their intended use.
4. Identify types of surgical needles.
5. Identify suture material.
6. Demonstrate proper instrument care.
7. Demonstrate pack preparation and sterilization.
8. Demonstrate aseptic technique while performing inpatient surgical preparation and patient positioning.
9. Describe how to maintain asepsis in a surgical suite.
10. Perform correct surgical scrubbing and conduct in the operating room.
11. Describe possible duties of the sterile surgical assistant.
12. Perform post-surgical clean up.
13. Pass instruments and supplies properly.
14. Calculate dosages of anesthetic related drugs.
15. Identify the indications, advantages, disadvantages, effects on the body, and the associated adverse side effects of the commonly used preanesthetic.
16. Explain the rationale, effects on the body, advantages and disadvantages of the commonly used injectable and inhalation anesthetic agents.
17. Identify the components of general anesthesia.
18. Identify the various parts of the anesthetic machines and explain maintenance and use of each.

F. LEARNING OUTCOMES (MNTC): NA

G. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include any of the following:

1. Written test and/or quizzes
2. Laboratory practical tests
3. Course assignments
4. Participation (especially laboratory)

- H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s):  
Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.
- I. SPECIAL INFORMATION (if any):  
The initial lab session explains and familiarizes the student with general safety hazards and safety equipment to the lab. During the pre-lab discussion, the hazardous characteristics of any materials used during a lab are discussed. In addition, if the lab involves any potentially infectious or zoonotic material, the students will be instructed on the proper use and disposal. The instructor will direct all students to where necessary protective equipment while working with any hazardous chemicals. A copy of Material Safety Data Sheets for chemicals used is available in the lab.