

# Anesthesia and Surgical Assistance

## Class

VTHT 1341

In-depth application of surgical, obstetrical, and anesthesia techniques including identification and use of instruments and equipment.

## Honor Code

Students must abide by the Weatherford College Academic Honor Code (Honesty.) See college catalog.

## Tasks

- A. Describe reasons for and components of a preanesthetic examination. (C11,C12,C13,C18,F1,F2,F4,F10,F11)
  1. Describe risks associated with anesthesia.
  2. Perform a routine preanesthetic examination.
  3. Describe common laboratory testing and imaging performed prior to anesthesia.
- B. Demonstrate knowledge of common preanesthetic agents. (C11,C12,C13,C18,F1,F2,F4,F8,F10,F11)
  1. Demonstrate knowledge of anticholinergics used pre-anesthesia.
  2. Demonstrate knowledge of tranquilizers and sedation used pre-anesthesia.
  3. Describe indications and contraindications to use of the above.
- C. Describe the stages of general anesthesia and associated CNS depression. (C11,C12,C13,C18,F1,F2,F4,F10,F11)
  1. Describe the features of the stages and planes of anesthesia.
  2. Describe the progression of CNS depression associated with anesthesia.
- D. Demonstrate knowledge of common injectable anesthetic agents. (C11,C12,C13,C18,F1,F2,F4,F8,F10,F11)
  1. Describe agents commonly used in induction and maintenance of general anesthesia.
  2. Compare and contrast the above.
  3. Describe advantages and disadvantage of the use of each agent.
- E. Demonstrate knowledge of gas anesthetic agents. (C11,C12,C13,C18,F1,F2,F4,F8,F10,F11)
  1. Describe anesthetic gases commonly in use in veterinary medicine.
  2. Demonstrate knowledge of advantages and disadvantages of each agent.
  3. Describe the available anesthetic machines and breathing circuits.
  4. Demonstrate knowledge of employee safety issues associated with gas anesthesia.
- F. Demonstrate knowledge of anesthesia monitoring. (C11,C12,C13,C18,C19,F1,F2,F4,F8,F10,F11)
  1. Describe parameters used to determine depth of anesthesia.
  2. Describe equipment and laboratory tests used to aid in anesthesia monitoring.
- G. Describe method of patient support during and after anesthesia. (C11,C12,C13,C18,F1,F2,F4,F8,F10,F11)
  1. Describe the benefits of fluid therapy during anesthesia.
  2. Describe the use of respiratory support during anesthesia.
  3. Demonstrate knowledge of risks and avoidance of hypothermia.
- H. Describe the nature and response to common anesthetic emergencies. (C11,C12,C13,C18,C19,F1,F2,F4,F8,F10,F11)
  1. Demonstrate knowledge of common anesthetic emergencies.
  2. Describe warning sign of impending or existing problems.
  3. Demonstrate knowledge of appropriate response to emergency situations.
  4. Describe drugs commonly used in the anesthetic emergency setting.
- I. Demonstrate understanding of aseptic technique. (C5,C11,C12,C13,C18,C19,C20,F1,F2,F4,F8,F10,F11)
  1. Describe method of disinfection, antisepsis and sterilization
  2. Properly prepare gowns, drapes and surgery packs
  3. Sterilize surgery packs using autoclave.
  4. Describe aseptic methods of surgical preparation of the patient.
- J. Demonstrate knowledge of surgical assistance. (C11,C12,C13,C18,C20,F1,F2,F4,F8,F10,F11)
  1. Demonstrate aseptic method of assisting surgeon.
  2. Describe component of tissue handling during surgical assisting.
  3. Properly scrub, glove and gown for surgery.

4. Identify instruments used in veterinary surgery and obstetrics.

## Competencies

- A. Describe reasons for and components of a preanesthetic examination.
- B. Demonstrate knowledge of common preanesthetic agents.
- C. Describe the stages of general anesthesia.
- D. Demonstrate knowledge of common injectable anesthetic agents.
- E. Demonstrate knowledge of gas anesthetic agents.
- F. Demonstrate knowledge of anesthesia monitoring.
- G. Describe method of patient support during and after anesthesia.
- H. Describe the nature and response to common anesthetic emergencies.
  - I. Demonstrate understanding of aseptic technique.
  - J. Demonstrate knowledge of surgical assistance.

### Required Textbooks

McCurnin, Dennis M., Clinical Textbook for Veterinary Technicians, W. B. Saunders Co. (Recommended)

### Instructional Methods

This course will consist of 3 hours lecture and 2 hours lab per week.

Grades will be based on the following

Quizzes at approximately 25 points each 150 pts.

Lab Participation/Attendance 50 pts

Final exam 100 pts

Exams and quizzes will include multiple choice, True/False, short answer and short essay questions.

The grading scale is as follows

90-100 % A

80- 90 % B

70-80 % C

60-70 % D

below 60% F

### Disabilities

### ADA Statement:

Any student with a documented disability (e.g. learning, psychiatric, vision, hearing, etc.) may contact the Office on the Weatherford College Weatherford Campus to request reasonable accommodations. *Phone:* 817-598-6350  
*Office Location:* Office Number 118 in the Student Services Building, upper floor. *Physical Address:* Weatherford College 225 College Park Drive Weatherford, TX.

### Academic Integrity

Academic Integrity is fundamental to the educational mission of Weatherford College, and the College expects its students to maintain high standards of personal and scholarly conduct. Academic dishonesty of any kind will not be tolerated. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials including unauthorized use of Generative AI. Departments may adopt discipline specific guidelines on Generative AI usage approved by the instructional dean. Any student who is demonstrated to have engaged in any of these activities will be subject to immediate disciplinary action in accordance with institutional procedures.

### SCANS

The Secretary's Commission on Achieving Necessary Skills (SCANS) identified competencies in the areas of Resources, Interpersonal, Information, Systems and Technology, and foundation skills in the areas of Basic Skills,

Thinking Skills, and Personal Qualities. This Course is part of a program in which each of these competencies and skills are integrated. The specific SCANS competencies that are recognized throughout this course are noted at the end of the appropriate competencies or task listed.