



Course Description

ATE2652L | Introduction to Clinical Practice 2 | 1.00 credits

The clinical application of basic veterinary radiology and surgical nursing skills will be the primary focus of this practicum. The student will demonstrate skills under supervised instruction. Prerequisites: ATE1110, 1650L.

Course Competencies:

Competency 1: The student will understand and implement the necessary safety requirements for taking radiographs by:

1. Completing and observing recommended radiation safety measures
2. Using quality control measures
3. Identifying the maximum permissible dose of x-rays allowed per year and measurements associated with the maximum permissible dose
4. Demonstrating they understand the ALARA principle and techniques used to achieve it

Competency 2: The student will acquire the necessary skills to function in the radiology laboratory by:

1. Demonstrating that they can develop and adequately utilize radiographic technique charts
2. Demonstrating that they can accurately use positioning terminology for radiographic studies
3. Demonstrating the various positions and techniques for taking radiographs of the dog and the cat so that diagnostic images are created
4. Demonstrating that they can explain how x-rays are created using the correct terminology
5. Demonstrating that they have a working knowledge of the KVP and mas and the role these factors play in creating quality images
6. Demonstrating knowledge of the set-up and operation of x-ray machines, labeling right and left use of blockers, and the grid
7. Demonstrating that they can appropriately label, file, and store images
8. Demonstrating that they can adequately complete radiographic logs, reports, files, and medical records
9. Demonstrating that they can measure and position animals using topographic landmarks
10. Demonstrating that they can choose an appropriate radiographic technique to minimize the need for repeat exposures
11. Demonstrating that they can produce a quality diagnostic radiograph for the abdomen and thorax
12. Demonstrating that they can analyze the final radiograph for quality to provide maximum diagnostic benefit

Competency 3: The student will demonstrate knowledge of the different types of digital x-ray machines by:

1. Displaying working knowledge of the various antiseptics and disinfectants used in a surgical suite
2. Displaying knowledge of how to perform patient preparation
3. Including parameters for shaving, the nonsterile prep, and the aseptic prep

Competency 4: The student will demonstrate knowledge of various shaving and scrubbing techniques required to prepare a patient for surgery (e.g., clean hand dirty hand technique) and understanding of perioperative procedures by:

1. Displaying knowledge of surgical suite arrangements and proper conduct of the surgical nurse, the Surgeon and all other surgical team members
2. Identifying the sterile and nonsterile areas of the surgical suite and the proper movement within the surgical suite
3. Proving that they can recognize the sterile and nonsterile areas of surgery gowns and drapes
4. Identifying surgical instruments by their proper names and their function during a surgical procedure
5. Displaying working knowledge of the various suture materials and surgical needles used when Performing surgery

6. Displaying techniques for hand scrubbing and putting on sterile gloves
7. Proving that they can put on a surgical gown using a sterile technique
8. Recognizing patient positioning requirements for various surgical techniques
9. Showing the shaving requirements for the various surgical procedures

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills.
- Solve problems using critical and creative thinking and scientific reasoning.
- Formulate strategies to locate, evaluate, and apply information.