



Course Description

ATE1941 | Veterinary Clinical Experience 2 | 3.00 credits

This course consists of supervised clinical experience in the veterinary workplace. Students will learn to enhance the competencies from ATE1940 Veterinary Clinical Experience 1 while adding application of classroom knowledge in pharmacology, clinical laboratory procedures, and radiology. A.S degree credit only.

Course Competencies:

Competency 1: The student will demonstrate they can effectively set up and take radiographs of the abdomen and thorax by:

1. Showing proper use of PPE
2. Setting up an x-ray machine for various radiographs
3. Positioning and collimating for various positions (abdomen and thorax), describing techniques using proper terminology
4. Measuring appropriately for each area being radiographed
5. Critiquing techniques and making appropriate adjustments
6. Retrieving radiographs (film or digital) to be viewed by the veterinarian
7. Discussing essential positioning criteria for the abdomen, thorax, extremities, and pelvis
8. Discussing essential factors affecting radiograph quality

Competency 2: The student will demonstrate that they can effectively use the anesthesia machine by:

1. Showing the flow of oxygen through the anesthesia machine
2. Describing the parts of the anesthesia machine and define their function
3. Assessing issues with the anesthesia machine
4. Picking the appropriate breathing circuit for the patient (reservoir bag, breathing tubes)

Competency 3: The student will be able to safely and effectively anesthetize patients using hospitals anesthesia protocols by:

1. Discussing various pre-anesthetic and anesthetic drugs used (class, function, contraindications, and adverse side effects)
2. Calculating drugs using the dosages provided
3. Administering induction drugs appropriately and safely
4. Demonstrating appropriate monitor techniques when inducing anesthesia
5. Choosing the appropriate size of endotracheal tube
6. Intubating a dog and cat using appropriate techniques
7. Tying in an endotracheal tube securely
8. Blowing up the endotracheal tube cuff appropriately and safely
9. Recognizing the environmental impact of anesthetic equipment leaks

Competency 4: The student will be able to effectively and safely monitor anesthesia during dental and various surgical procedures by:

1. Demonstrating that they can effectively monitor patients without monitoring equipment
2. Demonstrating that they can effectively use monitoring equipment that is available in their clinical setting
3. Demonstrating that they know the appropriate ranges for monitoring parameters for the anesthetized patient
4. Demonstrating their understanding of how to correctly monitor the depth of anesthesia and make appropriate adjustments as necessary
5. Demonstrating they can accurately document anesthetic monitoring

Competency 5: The student will be able to monitor a patient post-anesthesia by:

1. Demonstrating knowledge of what parameters to monitor post-anesthesia
2. Demonstrating they know when and how to extubate an anesthetic patient
3. Their ability to identify necessary PPE equipment and how it is used
4. Their ability to accurately identify dental instruments, their function, and how they are used
5. Their ability to demonstrate charting procedure used by clinical site
6. Their ability to perform dental cleaning (scaling and polishing) safely

7. Their ability to discuss procedures specific to dental prophylaxis and monitoring anesthesia

Competency 6: The student will be able to demonstrate proper surgical room etiquette by:

1. Wearing proper attire in the surgical suite
2. Properly moving about the surgical suite and maintaining sterility of the area
3. Passing surgical instruments using sterile techniques
4. Identifying different methods of gloving and being able to glove as required based on the procedure being performed
5. Tying surgical gowns using an aseptic technique

Competency 7: The student will demonstrate procedures used to maintain, clean, and pack instruments by:

1. Exhibiting knowledge of the autoclave and how to use the autoclave
2. Packing the autoclave appropriately
3. Exhibiting knowledge of factors affecting the sterilization process
4. Exhibiting knowledge of how gas sterilization (ethylene oxide) works and how it is used in clinical settings

Competency 8: The student will demonstrate the ability to prepare a surgical suite for an anesthetic procedure by:

1. Setting up a surgical suite appropriate for the procedure (e.g., Packs, suture material, monitoring equipment, accessory equipment necessary)
2. Identifying the surgical instruments needed
3. Performing post-surgical room clean-up

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Formulate strategies to locate, evaluate, and apply information