Course Description

ATE2655L | Animal Nursing & Medicine Laboratory 1 | 2.00 credits
This course is designed to acquaint the student with exam room and restraining techniques, anesthesia and surgical protocols and diagnostic imaging procedures used in veterinary hospitals.

Course Competencies:

Competency 1: The student will manage all client and patient paperwork regarding intake of patients for anesthetic procedures by:

1. Demonstrating that they can accurately intake a patient for an anesthetic procedure by having all forms completed by the client
2. Demonstrating that they can accurately assemble a new patient record
3. Demonstrating that they can accurately and professionally record required information in a patient's medical record
4. Demonstrating that they can accurately file a patient record

Competency 2: The student will demonstrate the proper use of the controlled drug log by:

1. Displaying knowledge of controlled drugs used for anesthetic procedures and for pain management
2. Showing that they can accurately record information in a controlled drug log

Competency 3: The student will demonstrate they understand the parts and the functions of the anesthesia machine by:

1. Identifying the components of the anesthesia machine
2. Explaining the function of each part of the anesthesia machine
3. Performing a leak test, identify a leak and how to fix a leak
4. Identifying various tanks used to hold compressed gases, their volumes and pressures
5. Properly attaching an oxygen tank
6. Applying anesthesia machine for various size patients-choosing correct breathing system and reservoir bag
7. Using various logs/ documents used in maintenance of the anesthesia machine

Competency 4: The student will demonstrate knowledge of how to monitor patient without the use of monitoring equipment by:

1. Taking an accurate pulse rate and interpreting it
2. Taking an accurate heart rate and interpreting it
3. Taking a temperature and interpreting it
4. Assessing mucus membrane color and interpreting it
5. Taking a capillary refill time and interpreting it
6. Interpreting perfusion parameters
7. Taking a respiratory rate and interpreting it

Competency 5: The student will demonstrate that they can accurately set up the various monitoring devices and recognize normal and abnormal values by:

1. Accurately attaching the various monitoring devices
2. Understanding information obtained from various monitoring equipment used in a veterinary hospital
3. Interpreting data obtained from monitoring
4. Addressing abnormal values
5. Displaying the pathophysiology of abnormal values

Competency 6: The student will demonstrate the proper set up of IV Fluid therapy and fluid maintenance for the anesthesia patient by:

1. Identifying the various types of catheters and their specific advantages and disadvantages
2. Displaying proper aseptic preparation of the catheter site
3. Displaying proper placement of an IV catheter using aseptic technique
4. Displaying proper taping method for the type of catheter and vessel used
5. Displaying proper maintenance of the catheter site
6. Displaying proper removal of the catheter
7. Displaying the aseptic technique in preparing the fluid bag and administration set
8. Calculating the fluid rate for an anesthesia patient
9. Proving that they can recognize the clinical signs of fluid overload
10. Showing they understand the advantages and disadvantages of fluid therapy during anesthetic 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