



### **Course Description**

#### **MEA0540 | Electrocardiography/Emergency Procedures | 2.00 credits**

The nature and purpose of the electrocardiograph (EKG); maintenance of equipment and materials needed; preparation of the patient and the procedure for taking and mounting the EKG record and monitoring the record for abnormal or erratic tracings. The maintenance of emergency equipment and implementing emergency procedures in the medical office.

### **Course Competencies:**

**Competency 1:** The student will describe the cardiovascular system by:

1. Locating the heart and surrounding structures
2. Labeling parts of the heart and listing functions of each
3. Tracing the flow of blood through the cardiopulmonary system

**Competency 2:** The student will demonstrate knowledge of, apply, and use an EKG machine by:

1. Calibrating and maintaining EKG equipment
2. Demonstrating proper lead placement, including lead placement with special consideration for various patients with special needs
3. Performing a 12-lead EKG

**Competency 3:** The student will be able to demonstrate knowledge of first aid by:

1. Recognizing emergencies
2. Communicating appropriately in emergencies
3. Performing first aid in various circumstances, including bio emergencies

### **Learning Outcomes:**

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Demonstrate knowledge of diverse cultures, including global and historical perspectives
- Create strategies that can be used to fulfill personal, civic, and social responsibilities
- Use computer and emerging technologies effectively