Course Information
Division: Allied Health
Course Number: HCE 188
Title: Electrocardiogram
Credits: 2
Developed by: Dr. Mayuree Siripoon/Jeffrey R. Vaughn
Lecture/Lab Ratio: 2 Lecture/0 Lab
Transfer Status: ASU NAU UA
Activity Course: No
CIP Code: 51.0800
Assessment Mode: Pre/Post Test (25 Questions/100 Points)
Semester Taught: Fall
GE Category: None
Separate Lab: No
Awareness Course: No
Intensive Writing Course: No

Prerequisites
None

Educational Value
Student will demonstrate skills necessary to interpret basic single and 12 lead electrocardiograms.

Description
This course is focused on knowledge and skill necessary to perform electrocardiogram (ECG) monitoring duties. The content includes anatomy and physiology of the cardiac, pulmonary, and vascular systems. ECG interpretation techniques, equipment, and supplies used in telemetry will be covered.

Supplies
None
### Competencies and Performance Standards

1. **Apply knowledge of anatomy and physiology to ECG interpretation.**
   
   **Learning objectives**
   
   What you will learn as you master the competency:
   
   a. Identify normal anatomy physiology of the heart and conduction system
   
   b. Demonstrate skill in obtaining basic and 12 ECG recordings and recognizing/troubleshooting problems.

   **Performance Standards**
   
   Competence will be demonstrated:
   
   o In the completion of test.

   Criteria - Performance will be satisfactory when:
   
   o Learner provides acceptable, written responses to questions

2. **Recognize arrhythmias.**

   **Learning objectives**
   
   What you will learn as you master the competency:
   
   a. Relate waveforms on an electrocardiogram to heart actions.
   
   b. Recognize life-threatening arrhythmias and injury patterns

   **Performance Standards**
   
   Competence will be demonstrated:
   
   o In completion of the test.

   Criteria - Performance will be satisfactory when:
   
   o Learner provides acceptable, written responses to questions.

3. **Demonstrate ECG monitoring**

   **Learning objectives**
   
   What you will learn as you master the competency:
   
   a. Demonstrate setting up basic and 12 lead cardiac monitoring and telemetry.
   
   b. Demonstrate ability to recognize and troubleshoot common problems associated with ECG monitoring/acquisition.

   **Performance Standards**
   
   Competence will be demonstrated:
   
   o In completion of competency assessment checklists on cardiac monitoring procedures.

   Criteria - Performance will be satisfactory when:
   
   o Learner provides acceptable, written responses to questions.

### Types of Instruction

Classroom Presentation & Demonstration, on campus practice of ECG interpretation

### Grading Rationale

Quizzes = 75% Post Test = 25%
Grading Scale

A  90-100% of total point value
B  80-89.99% of total point value
C  70-79.99% of total point value
D  60-69.99% of total point value
F  0-59.99% of total point value