

## Master Syllabus

### ALH 1110 - Principles of Electrocardiography

**Division:** Health Sciences

**Department:** Allied Health

**Credit Hour Total:** 3.0

**Lecture Hrs:** 1.0 **Lab Hrs:** 3.0 **Clinic:** 1.0

**Date Revised:** March 2016

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#### Course Description:

Principles of electrocardiography, including equipment operation, recording and troubleshooting, as well as fundamental principles of the cardiovascular physiology and basic ECG interpretation. Students will also gain knowledge and skills to provide CPR for victims of all ages and will practice CPR in a team setting. Students will receive an American Heart Association Basic Life Support for Healthcare Provider card upon successful completion of skills. One classroom, three lab hours per week. A 30 hour unpaid clinical rotation will be completed during the course.

#### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Written Communication Competency
- ▣ Oral Communication Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Information Literacy Competency

#### Course Outcomes:

##### **BLS - HCP**

Perform healthcare provider CPR.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

84% or better on given rubric

##### **Components and Functions of ECG Equipment**

Identify the major components and their functions of single and multiple lead ECG equipment.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on given exam

##### **Record a 12-lead ECG Tracing**

Perform a 12-lead ECG tracing on patients.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

70% or better on given rubric

##### **Functions of the Cardiovascular System**

Describe the structure and general functions of the cardiovascular system.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or better on given exam

##### **Physiological Basis of an ECG Tracing**

Correlate the events in a cardiac cycle to the physiological findings in the ECG tracing.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

70% or better on given rubric

##### **Rate and Rhythm Disturbances of an ECG**

Interpret basic rate and rhythm disturbances of an ECG tracing.

**Assessment Method:** Simulations

**Performance Criteria:**

70% or better on given rubric

##### **Clinical Practice**

Perform 12-lead electrocardiography under the supervision of an ECG tech in a medical facility.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

70% or better on given rubric

**Outline:**

Cardiac anatomy and physiology

Electroconduction of the heart

EKG equipment

Procedure for equipment operation and patient attachment

Patient and medical considerations

Interpretation of ECG patterns

Perform electrocardiography on patients