

**NVCC COLLEGE-WIDE COURSE CONTENT SUMMARY
EMS 153 – BASIC ECG RECOGNITION (2 CR)**

Course Description

Focuses on the interpretation of basic electrocardiograms (ECG) and their significance. Includes an overview of anatomy and physiology of the cardiovascular system including structure, function and electrical conduction in the heart. Covers advanced concepts that build on the knowledge and skills of basic dysrhythmias determination and introduction to 12 lead ECG. Lecture 2 hours per week.

General Course Purpose

To prepare the student to interpret basic electrocardiograms (ECG) and their significance.

Entry Level Competencies

None

Course Goals and Objectives

Goals

To prepare the student to interpret basic electrocardiograms (ECG) and their significance.

Objectives

1. Upon successful completion of the course, the student will be able to:
 - a. Explain the cardiovascular system's anatomy and physiology.
 - b. Explain the electrophysiology of the heart.
 - c. Properly apply and interpret three and four lead ECG's.
 - d. Introduction to 12 lead ECG.
 - e. Recognize and explain the clinical significance of a variety of rhythms to include: sinus, atrial, junctional, blocks, ventricular and pacemaker.

Major Topics to be Included

- a. Cardiovascular A&P
- b. Electrophysiology
- c. ECG Monitoring Concepts
- d. Rhythm Recognition
- e. Clinical Significance