

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** EMS 141    **Credits:** 2

**Course Title:** Cardiovascular Care

**Course Description:**

Focuses on assessment and management of cardiac-related emergencies. Covers basic dysrhythmia recognition and relates it to overall cardiac patient care. Prerequisites: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128. Corequisite: EMS 142. Lecture 2 hours per week.

**General Course Purpose:**

The purpose of this course is to teach the student principles of assessment and management of cardiac emergencies and to teach basic EKG recognition.

**Course Prerequisites and Co-requisites:**

Prerequisites: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128  
Corequisite: EMS 142

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- Apply fundamental knowledge of anatomy and physiology of the cardiovascular system;
-



diseases

Acute coronary syndrome

Acute myocardial infarction/angina

Non-traumatic cardiac tamponade

Hypertensive emergencies

Cardiogenic shock

Cardiac arrest

Vascular disorders

Aortic aneurism/dissection

Infectious diseases of the heart

Cardiac myopathy

Specific hypertensive emergencies

Congenital abnormalities and age-related concerns

**Effective Date/Updated:** September 21, 2018