

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

**Course Prefix and Number:** EMS 151

**Credits:** 4

**Course Title:** Introduction to Advanced Life Support

**Course Description:** Prepares the student for Virginia Enhanced certification eligibility and begins the sequence for National Registry Intermediate and/or Paramedic certification. Includes the theory and application of the following: foundations, human systems, pharmacology, overview of shock, venous access, airway management, patient assessment, respiratory emergencies, allergic reaction, and assessment based management. Conforms at a minimum to the Virginia Office of Emergency Medical Services curriculum. Co-requisite: EMS 170. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

**General Course Purposes:** Includes the theory and application of the following: foundations, human systems, pharmacology, overview of shock, venous access, airway management, patient assessment, respiratory emergencies, allergic reaction, and assessment based management.

**Co-requisite:** EMS 170

**Course Objectives:**

Upon completing the course, students will be able to:

- a. understand their roles and responsibilities within an EMS system, and how these roles and responsibilities differ from other levels of providers.
- b. understand and value the importance of personal wellness in EMS and serve as a healthy role model for peers.
- c. integrate the implementation of primary injury prevention activities as an effective way to reduce death, disabilities and health care costs.
- d. understand the legal issues that impact decisions made in the out-of-hospital environment.
- e. understand the role that ethics plays in decision making in the out-of-hospital environment.
- f. apply the general concepts of pathophysiology for the assessment and management of emergency patients.
- g. integrate pathophysiological principles of pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan.
- h. safely and precisely access the venous circulation and administer medications.
- i. integrate the principles of therapeutic communication to effectively communicate with any patient while providing care.
- j. integrate the physiological, psychological, and sociological changes throughout human development with assessment and communication strategies for patients of all ages.
- k. establish and/or maintain a patent airway, oxygenate, and ventilate a patient.

**Major Topics to be Included:**

- a. ROLES AND RESPONSIBILITIES
- b. MEDICAL LEGAL
- c. EMS SYSTEMS
- d. ILLNESS AND INJURY PREVENTION
- e. ETHICS
- f. DOCUMENTATION
- g. COMMUNICATION
- h. MEDICAL TERMINOLOGY
- i. HUMAN SYSTEMS
- j. EMERGENCY PHARMACOLOGY
- k. MEDICAL MATH
- l. MEDICATION ADMINISTRATION
- m. RESPIRATORY A&P
- n. BASIC AND ADVANCED AIRWAY
- o. RESPIRATORY EMERGENCIES

**Effective Date of Course Content Summary:** April 6, 2009