

**NVCC COLLEGE-WIDE COURSE CONTENT SUMMARY
EMS 151 – INTRODUCTION TO ADVANCED LIFE SUPPORT (4 CR)**

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 Purpose

To prepare the student for advanced life support certification.

Entry Level Competencies

Get this from the BLS courses. Pre-requisites: Current State or National Registry EMT-B and CPR.

Course Goals and Objectives

Goals

To introduce the EMT-Basic provider to advanced life support assessment and care.

Objectives

1. Students will understand the roles and responsibilities of an ALS provider within an EMS system, apply the basic concepts of development, pathophysiology and pharmacology to assessment and management of emergency patients, be able to properly administer medications, and communicate effectively with patients.
2. Students will be able to establish and/ or maintain a patent airway, oxygenate, and ventilate a patient.
3. Students will be able to take a proper history and perform a comprehensive physical exam on any patient, and communicate the findings to others.
4. Students will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the medical patient having respiratory and allergic emergencies.
5. Students will be able to integrate the principles of assessment based management to perform an appropriate assessment and implement the management plan for patients with common complaints.

Major Topics to be Included

- Foundations
- Human Systems
- Pharmacology
- Intro Shock
- Venous Access
- A & P Respiratory System
- Airway Management
- Patient Assessment
- History Taking
- Physical Exam
- Normal Patient Assessment
- Clinical Decision Making
- Altered Level of Consciousness
- Respiratory
- Allergic
- Assessment Based Management