

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

**Course Prefix and Number:** EMS 155

**Credits:** 4

**Course Title:** ALS – Medical Care

**Course Description:** Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Includes ALS pharmacology, drug, and fluid administration with emphasis on patient assessment, differential diagnosis, and management of multiple medical complaints. Includes, but not limited to, conditions relating to cardiac, diabetic, neurological, non-traumatic abdominal pain, environmental, behavioral, gynecology, and toxicological disease conditions. Prerequisites: Current EMT-B certification, EMS 151, and EMS 153. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

**General Course Purpose:** Continues DOTs National Intermediate/Paramedic Curriculum. Emphasis placed upon assessment and management of medical modalities to include cardiac, pulmonary, neurological, endocrine, and other related medical complaints.

**Course Prerequisites and Co-requisites:**

**Prerequisites:** Current EMT-B certification, EMS 151, and EMS 153

**Course Objectives:**

Upon completing the course, the student will be able to

- a. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with respiratory problems;
- b. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with cardiovascular disease;
- c. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with a neurological problem;
- d. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with an endocrine problem;
- e. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with an allergic or anaphylactic reaction;
- f. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with a gastroenterologic problem;
- g. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the patient with a renal or urologic problem;
- h. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with a toxic exposure;
- i. Integrate the pathophysiological principles of the hematopoietic system to formulate a field impression and implement a treatment plan;
- j. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with an environmentally induced or exacerbated medical or traumatic condition; and
- k. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a management plan for the patient with infectious and communicable diseases.

**Major Topics to Be Included:**

- a. Cardiac emergencies
- b. Diabetic emergencies
- c. Neurological emergencies
- d. Environmental emergencies
- e. Abdominal emergencies
- f. Behavioral emergencies
- g. Gynecological emergencies
- h. Pediatric emergencies
- i. Toxicological emergencies

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