

**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 is not limited to conditions relating to cardiac, diabetic, neurological, non-traumatic abdominal pain, environmental, behavioral, gynecology, and toxicological disease conditions. 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/Corequisites

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

Course Objectives

Upon successful completion of 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. To 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.
- 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

- Cardiac Emergencies
- Diabetic emergencies
- Neurological Emergencies
- Environmental Emergencies
- Abdominal Emergencies
- Behavioral Emergencies
- Gynecological Emergencies
- Pediatric Emergencies
- Toxicological Emergencies

Effective Date of Course Content Summary: April 6, 2009