

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

**Course Prefix and Number:** EMS 164

**Credits:** 1

**Course Title:** Advanced Medical Life Support (AMLS)

**Course Description:** Covers current topics of care for adult patients suffering extensive medical conditions and emergencies, and offers certification as an Advanced Medical Life Support (AMLS) as defined by the National Association of Emergency Medical Technicians (NAEMT). Lecture 1 hour per week.

**General Course Purpose:** This course provides the knowledge and skills that promote the competence of health care providers responsible for the assessment and management of adult patients who present with a variety of medical emergencies.

**Course Prerequisites and Co-requisites:**

Prerequisite: None

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- a. Provide a brief description of the anatomy, physiology, and pathophysiology for the underlying etiologies related to a variety of medical complaints.
- b. Provide an understanding of the importance of an assessment-based approach to assessment and management of patients with medical complaints.
- c. Enhance the participant's knowledge and skill in the assessment and management of patients with a variety of medical complaints.
- d. Evaluate the differences in medical differential diagnoses that are life threats and require immediate management.
- e. Support the team approach, for both prehospital and in-hospital health care personnel, by utilizing a dynamic assessment process, effective communications, and management skills by health care providers at all levels of practice.
- f. Utilize effective therapeutic communication, clinical reasoning, pattern recognition, and decision-making skills to perform comprehensive assessments to identify life-threatening; critical/emergent and nonemergency medical diagnoses, and management strategies, for medical complaints.
- g. Discuss historical, physical examination, and diagnostic findings to the appropriate body system to determine and modify appropriate differential diagnoses.

**Major Topics to Be Included:**

- a. Advanced Medical Life Support Assessment for the medical patient
- b. Respiratory disorders
- c. Cardiovascular disorders
- d. Shock
- e. Neurological disorders
- f. Abdominal disorders
- g. Endocrine and metabolic disorders
- h. Infectious diseases
- i. Environmental-related disorders
- j. Toxicology
- k. Hazardous materials
- l. Weapons of mass destruction

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