

EMS 110 Emergency Medical Technician (EMT)

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification.

Course Hours per Week: Class, 6. Semester Hours Credit, 9.

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to:

1. Integrate pathophysiological principles and assessment findings to provide appropriate patient care for patients with medical and traumatic presentations.
2. Communicate effectively with others, interacting with patients and other healthcare providers in a professional and appropriate manner.
3. Demonstrate competency in all EMT-B skills associated with established standards and procedures for a variety of patient encounters.
4. Identify the need for and demonstrate the performance of immediate life-saving interventions to manage a patient's airway, breathing, and circulation.
5. Work with a team of peers to manage patient care in simulated scenarios under the direction of the instructor.
6. Accurately document skills and simulated patient care.
7. Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
8. Meet state competency requirements for EMT-B certification.

OUTLINE OF INSTRUCTION:

- I. Preparatory
 - A. EMS Systems
 - B. Workforce Safety and Wellness
 - C. Medical, Legal, and Ethical Issues
 - D. Communication and Documentation
 - E. Medical Terminology
 - F. Anatomy and Physiology

- G. Pathophysiology
 - H. Lifting and Moving Patients
 - I. Patient Assessment
- II. Airway
- A. Airway Management
 - B. Respiratory Emergencies
- III. Cardiology
- a. BLS Resuscitation
 - b. Shock
 - c. Cardiovascular Emergencies
- IV. Medical
- a. Medical Overview
 - b. Principals of Pharmacology
 - c. Neurological Emergencies
 - d. Gastrointestinal Emergencies
 - e. Urological Emergencies
 - f. Endocrine Emergencies
 - g. Hematological Emergencies
 - h. Immunological Emergencies
 - i. Toxicology
 - j. Gynecological Emergencies
 - k. Psychiatric Emergencies
- V. Trauma
- a. Trauma Overview
 - b. Bleeding
 - c. Soft Tissue Injuries
 - d. Head Injuries
 - e. Spine Injuries
 - f. Abdominal Injuries
 - g. Genitourinary Injuries
 - h. Orthopedic Injuries
 - i. Environmental Emergencies
- VI. Special Populations
- a. Pediatric Emergencies
 - b. Obstetric and Neonatal Care
 - c. Geriatric Emergencies
 - d. Patient with Special Challenges
- VII. EMS Operations
- a. Transport Operations
 - b. Vehicle Extrication

- c. Incident Management
- d. Disaster Management
- e. Team Approach to Healthcare

REQUIRED TEXTBOOK AND MATERIAL:

The textbook and other instructional material will be determined by the instructor.