

COURSE OUTLINE

Emergency Medical Technician 139 Introduction to Emergency Medical Services

Catalog Statement

EMT 139 introduces foundational concepts related to the emergency medical care of sick and injured persons. This course is designed for students interested in pursuing emergency medical services or other healthcare occupations as a career. Topics also include the framework of emergency medical services as well as the unique challenges of ethical dilemmas and stress management in the emergency setting. Successful completion of the class includes certification in cardiopulmonary resuscitation (CPR) for healthcare providers from the American Heart Association (AHA).

Total Lecture Units: 2.0

Total Course Units: 2.0

Total Lecture Hours: 32.0

Total Faculty Contact Hours: 32.0

Recommended Preparation: BIOL 115 and ENGL 120 or ESL 151

Note: EMT 139 may not be taken concurrently with EMT 140.

Course Entry Expectations

Prior to enrolling in the course, the student should be able to:

- organize and write thesis-based essays;
- use detailed examples, facts, logical explanations, and other appropriate support for thesis statements;
- critically analyze selected prose works dealing with important contemporary issues;
- summarize, analyze, and synthesize information, express and apply standards for judgment, compare and contrast, and evaluate evidence in order to form and state reasoned opinions;
- gather and organize information through library research;
- demonstrate a command of grammar, diction, syntax, and mechanics sufficient for college level work: control of standard English at the sentence level, with few major errors in grammar and punctuation;
- identify the body systems, their organs and functions;
- demonstrate knowledge of the functions of the cell and its organelles;
- recognize the primary tissues that make up the human body;

- explain the homeostatic mechanisms of the organ systems of the human body;
- understand the cause and effect of major diseases of the human body;
- interpret the place of the human animal in scheme of life on earth.

Skills Level Ranges: Reading 5; Writing 5; Listening/Speaking 5; Math 1.

Course Exit Standards

Upon successful completion of the required coursework, the student will be able to:

- discuss the structure and significance of the Emergency Medical Services (EMS) system;
- explain the ethical responsibilities of healthcare providers;
- describe the structure and general functions of various body systems;
- describe the signs and symptoms of common communicable diseases encountered in various emergency settings;
- demonstrate the appropriate techniques for using personal protective equipment to reduce the risk for acquiring a communicable disease;
- discuss the various emotional reactions an EMS provider may encounter during the care of sick or injured persons;
- describe the use of evidence based research in emergency medical care;
- demonstrate the various techniques of resuscitation for the neonate, infant, child, and adult.

Course Content

Total Faculty Contact Hours = 32.0

Preparatory/Public Health in Emergency Medical Services (EMS) (2 hour)

- Overview of course
- Historical perspective
- The EMS system today
- Roles of EMS providers
- Research and EMS care
- Public health role of EMS

Medical, Legal, and Ethical Issues (4 hours)

- Discussion of applicable terminology
- Legal framework of prehospital practice
- Scenario-based situational discussion

Workforce Safety and Wellness of the EMT (4 hours)

- Patient responses to stressful situations
- Identification of patient stress and management of assaultive behavior
- Identification and management of EMS job-related stress

Communicable Diseases (2 hours)

- Bacterial and viral pathogens common in the pre-hospital setting
- Signs and symptoms of common communicable diseases
- Protection from transmission of communicable diseases

Orientation to Human Body for the Emergency Medical Technician (12 hours)

- Surface anatomy, Anatomical terms

The Musculoskeletal System
The Respiratory System
The Nervous System
The Endocrine System
The Digestive System
The Urinary/Renal System
The Reproductive System
Cardiopulmonary Resuscitation (**8 hours**)
Management of neonatal, pediatric, and adult cardiac and respiratory emergencies
Utilization of various barrier devices used for ventilation

Methods of Instruction

The following instructional methodologies may be used in the course:

- lecture;
- multimedia presentations;
- group discussions;
- scenario-based practical and theory skill applications;
- demonstration of program equipment.
- use of clicker device for data, testing, open ended discussions and participation.

Out of Class Assignments

The following out of class assignments may be used in the course:

- identify in writing a list of skills and task that can be performed by EMT in California not including items from the advanced scope of practice using Title 22;
- summarize what HIPPA is and how does it apply to EMT's;
- reading review, quizzes and testing using MyBradyLab;
- practice examinations on EMSTESTING.com.

Methods of Evaluation

The following methods of evaluation may be used in the course:

- demonstration of required skills for AHA CPR certification;
- student is observed on form and procedure in practical skill demonstration sessions;
- block exam;
- final examination and skill testing.

Textbooks

Mistovich, Joseph, et al. *Prehospital Emergency Care*, 10th Edition. With MyBradyLab. and E-text bundled. Upper Saddle River, NJ: Pearson/Prentice Hall, 2014.
11th Grade Textbook Reading Level. ISBN: 13: 978-0-13-336913-7

Hazinski, Mary F. ed. *BLS for Healthcare Providers (Student Manual)*. 1st ed. South Deerfield: American Heart Association, 2010. Print.

Grade Textbook Reading Level. ISBN 0874934613

Student Learning Outcomes

Upon successful completion of the required coursework, the student will be able to:

- describe the Emergency Medical Services (EMS) Systems and differentiate the roles and responsibilities of the EMT from other pre-hospital care providers using the California specific statutes and regulations;
- recognize the emotional, physical, pathological hazards of the EMT's working environment;
- will be able to identify, discuss, and define medical legal conditions that apply to the EMT's working environment;
- apply the anatomy and physiology of the following major body systems: respiratory, circulatory, musculoskeletal, nervous, and endocrine to situational pathophysiology of sick and injured;
- assess and identify adult, children, infants, and neonates in respiratory and cardiac inadequacies and perform the appropriate assistive treatments according to the American Heart Association Health Care Provider Standards.