

EMS 52: EMERGENCY MEDICAL TECHNICIAN: BASIC PART A

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Units:	5
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Advisory:	EMS 52 and 53 may not be taken concurrently; not open to students with credit in EMT 50 or 304.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Description

Intended to instruct a student to the level of Emergency Medical Technician-1 (EMT-1) who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT-1. Students will participate in hands-on application of skills necessary to work as a competent EMT. Students will also perform patient assessment scenarios focused on medical and trauma complaints and treatments of various diseases and injuries, to build competence and prepare them to sit for the state certification exam. Includes all knowledge and skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department or other specialized service.

Course Objectives

The student will be able to:

- Demonstrate an understanding of the Emergency Medical System, the roles and responsibilities of the EMT.
- Exhibit knowledge, understanding, and application of the human anatomy.
- Demonstrate an understanding of good history taking and clinical decision making, and develop a working diagnosis to treat the patient.
- Apply knowledge and understanding of the required medications in the scope of practice for EMT in accordance to Title 22.
- Exhibit knowledge of airway management and ventilation of the patient.
- Explore trauma systems and develop an understanding of mechanism of injury.
- Demonstrate knowledge of the cardiac system and emergencies.
- Demonstrate knowledge of pulmonary emergencies.
- Demonstrate knowledge of pediatric emergencies.
- Exhibit understanding of ambulance operations.
- Demonstrate and have an understanding in other medical issues.

Course Content

- Emergency Medical System, the roles and responsibilities of the EMT.

- Well being of the paramedic.
 - Injury prevention.
 - Medical/legal issues.
 - Ethics.
- Human anatomy.
 - General principles of pathophysiology.
 - Life span development.
- History taking, clinical decision making, to develop a working diagnosis.
 - History taking.
 - Patient assessment.
 - Clinical decision making.
 - Communications.
 - Documentation.
- Required medications within the scope of practice for paramedics in accordance to Title 22.
 - Venous access and medication.
 - Mechanism of drug action.
- Airway management and ventilation of the patient.
 - Respiratory physiology.
 - Airway adjuncts.
 - Respiratory emergencies.
- Trauma systems and develop an understanding of mechanism of injury.
 - Kinematics.
 - Shock.
 - Soft tissue injuries.
 - Multisystem trauma.
- Cardiac system and emergencies.
 - ECG interpretation.
- Pulmonary system and respiratory emergencies.
 - COPD.
 - Asthma.
- Pediatric emergencies.
 - Development of children.
 - Pediatric assessment.
- Ambulance operations.
 - Triage.
 - ICS.
 - Crime scene awareness.
 - Bioterrorism.
 - Hazardous material incidents.
- Other medical issues.
 - GI and GU medical concerns.
 - Environmental emergencies.
 - Infectious and communicable diseases.
 - OB and GYN emergencies.

Lab Content

Skills practice to become competent for NREMT (National Register EMT) testing. Skills include, but are not limited to:

- Medical Patient Assessment
- Trauma Patient Assessment
- Airway Management - CPAP
- IV Set-up
- Childbirth Deliveries
- Traction Splints
- Spinal Immobilization
 - Seating
 - Supine
- Helmet Removal

- I. CPR/FBAO
- J. Glucometer
- K. Chest Seal
- L. Epi-Auto-Injector

Special Facilities and/or Equipment

- A. Standard classroom for lecture, an area for skills practice.
- B. Includes CPR and FBAO, the use of AED, Airway Management and O2 therapy, Patient Survey both primary and secondary survey, bandages, and vital signs.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- A. Written quizzes.
- B. Final written exam.
- C. Complete a minimum 10 hours clinical experience with 5 patient write-ups.
- D. Must achieve a 75% or better for a course completion certificate.
- E. Demonstrate a professional attitude to instructors and other students and maintain a professional appearance, including wearing the program uniform, name tag, and a watch with second hand throughout program and clinical rotation.
- F. Skills test.

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture
- Discussion
- Cooperative learning exercises

Representative Text(s) and Other Materials

Mistovich, Joseph. Prehospital Emergency Care. 10th ed. Pearson Publisher, 2013. Package with My Brady Lab ISBN 978-01337-6656-1
Foothill's Skills Manual

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

Weekly reading assignments per class schedule from the text. Example:
Session 1: Read Chapters 1 & 2 for the first week.

Discipline(s)

Emergency Medical Technologies