

# EMS 50: EMERGENCY MEDICAL RESPONSE

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2022
Units:	5
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Advisory:	Not open to students with credit in EMR 50, HLTH 5 or 55.
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

Provides the student with the knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. The course meets or exceeds the 2009 Emergency Medical Services Educational Standards for Emergency Medical Response and meets Guidelines 2020 for First Aid and 2020 Consensus on Science for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.

## Course Objectives

The student will be able to:

- a. Examine how the EMS system operates.
- b. Evaluate guidelines to ensure personal safety and the safety of others at an emergency scene.
- c. Analyze the function of each human body system.
- d. Analyze signs and symptoms when human body systems fail to function.
- e. Examine ways in which diseases are transmitted, demonstrate body substance isolation techniques and use of personal protective equipment.
- f. Demonstrate appropriate care for specific emergency medical situations.
- g. Demonstrate proper techniques for moving victims.
- h. Discuss water rescues.
  - i. Explain multiple casualty incidents and triage techniques.
  - j. Prepare and deliver supplemental oxygen. (lab)
  - k. Demonstrate the application of Automated External Defibrillation (AED). (lab)
  - l. Assess the need for and administration of spinal immobilization. (lab)
- m. Demonstrate and describe proper airway management, including suctioning, and oral pharyngeal and naso pharyngeal placement. (lab)

## Course Content

- a. Emergency Medical Services (EMS)
  - i. Examine how the EMS system operates
  - ii. Compare and contrast the role of the emergency medical responder, the citizen responder, the emergency medical technician, and the paramedic
  - iii. Discuss the importance of cultural diversity while caring for victims
- b. The emergency scene
  - i. Analyze preparation for the emergency medical response
  - ii. Examine guidelines for personal safety and the safety of others
  - iii. Examine legal considerations
- c. Analyze human body systems including signs and symptoms of system failure
  - i. Circulatory system
  - ii. Respiratory system
  - iii. Nervous system
  - iv. Musculoskeletal system
  - v. Integumentary system
  - vi. Genitourinary system
- d. Disease transmission
  - i. Assess how infections occur
  - ii. Critically evaluate disease transmission precautions
  - iii. Demonstrate body substance isolation techniques/personal protective equipment
- e. Emergency medical plan of action
  - i. Scene size up
  - ii. Primary assessment
  - iii. Physical exam and SAMPLE history
  - iv. Ongoing assessment
- f. Respiratory emergencies: adult, child, infant
  - i. Common types of respiratory distress
  - ii. Care for respiratory distress and arrest
  - iii. Rescue breathing
  - iv. Airway obstruction
  - v. Breathing devices
  - vi. Supplemental oxygen
  - vii. Airways
  - viii. Suctioning
- g. Cardiac emergency: adult, child, infant
  - i. Recognition and care for a heart attack patient
  - ii. Risk factors for cardiovascular disease
  - iii. Cardiac arrest
  - iv. CPR; single-rescue and two person-rescue
  - v. Application of Automated External Defibrillator
- h. Bleeding and shock
  - i. External and internal bleeding control and recognition
  - ii. Treatment and prevention for shock
- i. Injuries
  - i. Soft tissue
  - ii. Burns
  - iii. Dressings and bandaging
- j. Musculoskeletal Injuries

- i. Stabilization
- ii. Splinting
- k. Head and spine injuries
  - i. Spinal Immobilization
  - ii. Cervical collar
  - iii. Backboards
- l. Specific injuries
  - i. Chest
  - ii. Abdomen
  - iii. Pelvis
- m. Medical/illness emergencies
  - i. Fainting
  - ii. Diabetic emergency
  - iii. Seizures
  - iv. Stroke
- n. Poisoning
  - i. How poisons enter the body
  - ii. Signs and symptoms
  - iii. Poison Control Center
  - iv. Anaphylaxis
  - v. Care for victims
- o. Substance abuse and misuse
  - i. Signs and symptoms
  - ii. Care for victims
- p. Heat and cold exposure
  - i. Regulating body temperature
  - ii. Heat related illness
  - iii. Cold related illness
  - iv. Prevention
- q. Crisis intervention
  - i. Special populations: pediatric, elderly, physically or mentally challenged, suicide, sexual assault, physical assault, behavioral emergencies
- r. Childbirth
  - i. Birth process, labor, delivery
  - ii. Care for mother and newborn
  - iii. Complications
- s. Reaching and moving victims
  - i. Assess necessity of movement
  - ii. Analyze victim's condition
  - iii. Determine rescuer's ability
- t. Water rescue
  - i. Drowning/near drowning
  - ii. Survival swimming
  - iii. Prevention
- u. Multiple casualty incidents
  - i. Incident Command System
  - ii. START triage system

## Lab Content

Practice with equipment and manikins for the following skills: CPR, AED, resuscitation mask, BVM, airways, suctioning, backboarding, spinal immobilization, bandaging, splinting, bleeding control, oxygen

administration, blood pressure, and emergency moves; instructor led practice, reciprocal practice, partner practice.

## Special Facilities and/or Equipment

1. Fully equipped lecture room including DVD and projector, overhead projector or document camera, screen, blackboard, manikins (ratio of no more than 3 to 1 recommended), decontamination supplies, non-rebreather masks, bag-valve masks, resuscitation masks, airways, (NPA, OPA) suction devices, nasal cannulas, oxygen cylinders, oxygen tubing, oxygen regulators, backboards, cervical collars, bandages, soft and rigid splints, blood pressure cuffs, stethoscopes, and an automated external defibrillator trainer.

2. When portions of the course offered online, students need on-going access to computer with email and internet access.

## Method(s) of Evaluation

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

Completion of all reading assignments from textbooks

Completion of workbook

Correctly demonstrate skills taught in the course

Written examination on HCP CPR/AED (must pass at the 84% level)

Written examination on oxygen administration (must pass at the 80% level)

Written comprehensive final examination (must pass at the 80% level)

## Method(s) of Instruction

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

Lecture

Discussion

Laboratory

Demonstration

Question and answer sessions

Skills scenarios

Practice while you watch DVD; watch then practice DVD

Group exercises

## Representative Text(s) and Other Materials

Le Baudour, Chris, and J. David Bergeron. [Emergency Medical Responder](#). 2019.

Le Baudour, Chris, and J. David Bergeron. [Emergency Medical Responder Workbook](#). 2019.

American Heart Association. [BLS For Healthcare Provider](#). 2020.

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

Students must read all assigned chapters in both textbooks, complete workbook, and practice all skills.

## Discipline(s)

Health or Emergency Medical Technologies