

EMS 400: EMERGENCY MEDICAL RESPONSE NONCREDIT

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Units:	0
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Degree & Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	EMR 400

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 2008 Emergency Medical Services Educational Standards for Emergency Medical Response and meets Guidelines 2010 for First Aid and 2010 Consensus on Science for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. Students must successfully pass this course to enter in the EMT course.

Course Objectives

The student will be able to:

- examine how the EMS system operates.
- evaluate guidelines to ensure personal safety and the safety of others at an emergency scene.
- analyze the function of each human body system.
- analyze signs and symptoms when human body systems fail to function.
- examine ways in which diseases are transmitted, demonstrate body substance isolation techniques and use of personal protective equipment.
- demonstrate appropriate care for specific emergency medical situations.
- prepare and deliver supplemental oxygen.
- demonstrate proper techniques for moving victims.
- discuss water rescues.
- demonstrate the application of Automated External Defibrillation (AED).
- assess the need for and administration of spinal immobilization.
- demonstrate and describe proper airway management, including suctioning, and oral pharyngeal and naso pharyngeal placement.
- explain Multiple Casualty Incidents and Triage techniques.

Course Content

- Emergency Medical Services (EMS)
 - Examine how the EMS system operates

- Compare and contrast the role of the emergency medical responder, the citizen responder, the emergency medical technician, and the paramedic
- Discuss the importance of cultural diversity while caring for victims
- The Emergency Scene
 - Analyze preparation for the emergency medical response
 - Examine guidelines for personal safety and the safety of others
 - Examine legal considerations
- Analyze human body systems including signs and symptoms of system failure
 - Circulatory System
 - Respiratory System
 - Nervous System
 - Musculoskeletal System
 - Integumentary System
 - Genitourinary System
- Disease transmission
 - Assess how infections occur
 - Critically evaluate disease transmission precautions
 - Demonstrate body substance isolation techniques/personal protective equipment
- Emergency Medical Plan of Action
 - Scene size up
 - Primary Assessment
 - Physical Exam & SAMPLE History
 - Ongoing Assessment
- Respiratory Emergencies; adult, child, infant
 - Common types of respiratory distress
 - Care for respiratory distress and arrest
 - Rescue breathing
 - Airway obstruction
 - Breathing devices
 - Supplemental oxygen
 - Airways
 - Suctioning
- Cardiac Emergency; adult, child, infant
 - Recognition and care for a heart attack patient
 - Risk factors for cardiovascular disease
 - Cardiac arrest
 - CPR; single-rescue and two person-rescue
 - Application of Automated External Defibrillator
- Bleeding and shock
 - External and internal bleeding control and recognition
 - Treatment and prevention for shock
- Injuries
 - Soft tissue
 - Burns
 - Dressings and Bandaging
- Musculoskeletal Injuries
 - Stabilization
 - Splinting
- Head and Spine Injuries
 - Spinal Immobilization
 - Cervical Collar
 - Backboards
- Specific Injuries
 - Chest
 - Abdomen
 - Pelvis
- Medical/Illness Emergencies
 - Fainting
 - Diabetic Emergency

- 3. Seizures
- 4. Stroke
- N. Poisoning
 - 1. How poisons enter the body
 - 2. Signs and symptoms
 - 3. Poison Control Center
 - 4. Anaphylaxis
 - 5. Care for victims
- O. Substance Abuse and Misuse
 - 1. Signs and Symptoms
 - 2. Care for victims
- P. Heat and Cold Exposure
 - 1. Regulating body temperature
 - 2. Heat related illness
 - 3. Cold related illness
 - 4. Prevention
- Q. Crisis Intervention
 - 1. Special populations; pediatric, elderly, physically or mentally challenged, suicide, sexual assault, physical assault, behavioral emergencies
- R. Childbirth
 - 1. Birth process, labor, delivery
 - 2. Care for mother and newborn
 - 3. Complications
- S. Reaching and Moving Victims
 - 1. Assess necessity of movement
 - 2. Analyze victim's condition
 - 3. Determine rescuer's ability
- T. Water Rescue
 - 1. Drowning/near drowning
 - 2. Survival swimming
 - 3. Prevention
- U. Multiple Casualty Incidents
 - 1. Incident Command System
 - 2. 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

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.

Method(s) of Evaluation

- A. Completion of all reading assignments from textbooks.
- B. Completion of workbook.
- C. Correctly demonstrate skills taught in the course.
- D. Written examination on HCP CPR/AE
- D.
- E. Written examination on Oxygen administration.

F. Written comprehensive final examination.

Method(s) of Instruction

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 Bergeron, Brady. [Emergency Medical Responder](#). 9th ed. K. Wesely, MD., 2012.

Le Baudour, Chris and Bergeron, Brady. [Emergency Medical Responder Workbook](#). 9th ed. K. Wesely, MD., 2012.

American Heart Association. [BLS for Healthcare Provider](#). Channing Bete Publisher, 2010 Guidelines.

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

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

Discipline(s)

Health, Emergency Medical Technologies