

CATALOG INFORMATION

Dept and Nbr: EMC 274 Title: EMT - LECTURE/LAB
Full Title: Emergency Medical Technician Lecture/Lab
Last Reviewed: 3/28/2011

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	5.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	5.00	Lab Scheduled	3.00	9	Lab Scheduled	52.50
		Contact DHR	3.00		Contact DHR	52.50
		Contact Total	9.00		Contact Total	157.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 262.50

Title 5 Category: AA Degree Applicable
Grading: Grade Only
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:
Formerly: HLC 274

Catalog Description:
Basic level course primarily designed to meet the California State Department of Health lecture requirements for the emergency medical technician who functions on an operational ambulance. Students are able to apply principles of anatomy, physiology and communications as they relate to the assessment of the sick and injured and rendering pre-hospital basic life support. Students will apply the above knowledge to develop manipulative skills necessary to the practice of an EMT. Students must be 18 years of age by course completion to be eligible for the State Dept of Health certification. Students are not permitted to take FIRE 208.1 concurrently with this course.

Prerequisites/Corequisites:
EMC 233 (formerly HLE 233) or EMC 290 or equivalent; current certification in CPR.

Recommended Preparation:
Eligibility for ENGL 100A or ENGL 100. Completion of ANAT 51.

Limits on Enrollment:

Schedule of Classes Information:
Description: Lecture/lab requirement for EMT 1A certification. Students will be required to attend assigned weekend activities as scheduled. Must be 18 years by course completion to be

eligible for certification. Students may not enroll in Fire 208.1 concurrent with course. (Grade Only)

Prerequisites/Corequisites: EMC 233 (formerly HLE 233) or EMC 290 or equivalent; current certification in CPR.

Recommended: Eligibility for ENGL 100A or ENGL 100. Completion of ANAT 51.

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:		Effective:	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

1. Demonstrate knowledge of the Emergency Medical System (EMS) at the state and county level to include the medical-legal responsibilities of the Emergency Medical Technician (EMT).
2. Identify the basic anatomy and physiology of the:
 - A. Respiratory system.
 - B. Cardiovascular system.
 - C. Musculo-skeletal system.
 - D. Nervous System.
 - E. Digestive system.
3. Recognize a minimum of five mechanisms, signs and symptoms of the pathophysiology in the following systems.
 - A. Respiratory.
 - B. Cardiac.
 - C. Central nervous.
 - D. Soft tissue.
 - E. Musculoskeletal.
4. Identify five pre-hospital modalities appropriate for pathophysiology in the following systems:
 - A. Respiratory.
 - B. Cardiac.
 - C. Central nervous.
 - D. Soft tissue.
 - E. Musculoskeletal.

5. Recognize minimum of three signs and symptoms and identify pre-hospital treatment of the following:
 - A. Diabetic emergencies.
 - B. Environmental emergencies.
 - C. Seizures.
 - D. Behavioral emergencies.
 - E. Communicable diseases.
6. Identify the basic anatomy and physiology of normal childbirth, and recognize three complications of childbirth.
7. Identify at least two medical conditions specific to infant/pediatric and geriatric patients.
8. Be able to discuss five principles of triage and multi casualty incidents.
9. Understand effective verbal and written communication skills as they relate to the EMS.
10. Recognize at least three components of emergency vehicle operation and safety.
11. SKILLS INTRODUCTION
 - A. BODY MECHANICS, MOVING & LIFTING
12. Provide current methods and procedures as they relate to victims of motor vehicles.
13. Apply knowledge of accident scene management.
14. Become familiar with the utilization of rescue equipment.
15. Apply principles of immobilization techniques.

Topics and Scope:

1. Overview.
 - A. EMS system.
 - B. Role and responsibilities of EMT.
2. First Principles of Emergency Care.
 - A. Medical/legal.
 - B. Communications and crisis intervention.
3. Patient Assessment.
 - A. Primary and secondary exam.
 - B. Vital signs.
 - C. SOAP.
4. Respiratory System.
 - A. Anatomy.
 - B. Physiology.
 - C. Oxygen therapy.
5. Pathophysiology Respiratory System.
 - A. Disease processes.
 - B. Assessment and treatment.
6. Cardiovascular System.
 - A. Anatomy.
 - B. Physiology.
7. Pathophysiology CV System.
 - A. Disease processes.
 - B. Assessment and treatment.
8. Shock.
 - A. Classification.

- B. Assessment and treatment.
- 9. Central Nervous System.
 - A. Anatomy and physiology.
 - B. Assessment/treatment of spinal and head injuries.
- 10. Muscular Skeletal System.
 - A. Anatomy and physiology.
 - B. Assessment/treatment of fractures.
- 11. Altered Level of Consciousness-Medical Emergencies.
 - A. Diabetes.
 - B. Seizures.
 - C. Stroke.
- 12. Childbirth.
 - A. Anatomy and Physiology.
 - B. Delivery procedure.
 - C. Complications.
- 13. Introduction to Ambulance.
 - A. Interface with advanced life support.
 - B. IV therapy.
 - C. Safe driving.
- 14. Behavioral Emergencies.
 - A. Critical incident stress.
- 15. Infectious Disease.
 - A. Hepatitis.
 - B. AIDS et al.
- 16. Environmental Emergencies.
 - A. Heat exposure.
 - B. Cold exposure.
 - C. Insect/spider/snakes.
- 17. Pediatric/Geriatric.
 - A. Abuse.
 - B. SIDS.
 - C. Unique physiology as relates to above.
- 18. Auto Extrication
 - A. Size up
 - B. Stabilization
 - C. Access/Disentanglement
 - D. Patient assessment/care
 - E. Immobilization
 - F. Transport

Assignment:

- 1. Read approximately 50 pages per week.
- 2. Complete 3 case studies found in the syllabus of approximately 3 pages each AND ANSWER STUDY QUESTIONS.
- 3. DO 8 HOURS CLINICAL TIME IN AN EMERGENCY DEPARTMENT, AND 8 HOURS CLINICAL TIME ON AN APPROVED SONOMA COUNTY AMBULANCE.
- 4. COMPLETE ONE PAGE IMPRESSION PAPER DESCRIBING PATIENT CONTACT AND CLINICAL EXPERIENCE.
- 5. WEEKLY (16) DEMONSTATION OF SKILLS REQUIRING COMPLETED SKILL SHEET

TO BE TURNED IN.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, Term papers

Writing
5 - 10%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams

Problem solving
10 - 50%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Performance exams

Skill Demonstrations
25 - 50%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice

Exams
25 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

None

Other Category
0 - 0%

Representative Textbooks and Materials:

MED EMT, Brady, 2000 Edition

SRJC EMT 1A Syllabus