

EMC 110B Course Outline as of Spring 2006**CATALOG INFORMATION**

Dept and Nbr: EMC 110B Title: EMT PARAMEDIC- CLINICAL

Full Title: Emergency Medical Technician- Paramedic Clinical

Last Reviewed: 4/10/2006

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	8.00	Lecture Scheduled	2.00	8	Lecture Scheduled	16.00
Minimum	8.00	Lab Scheduled	6.00	8	Lab Scheduled	48.00
		Contact DHR	25.00		Contact DHR	200.00
		Contact Total	33.00		Contact Total	264.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 32.00

Total Student Learning Hours: 296.00

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: EMC 270B

Catalog Description:

Application of skills in the clinical setting to include, but not be limited to, the emergency department and various specialty units. Knowledge & skills related to anatomy, physiology, pathophysiology, clinical symptoms and diagnosis as they pertain to pre-hospital emergency medical care of the sick and injured. This is the second course designed to give students the clinical experience required for certification as an EMT-Paramedic in California.

Prerequisites/Corequisites:

Course Completion of EMC 110A (or EMC 270A)

Recommended Preparation:**Limits on Enrollment:****Schedule of Classes Information:**

Description: The second course designed to give students clinical experience required for certification as an EMT-P in California (Grade Only)

Prerequisites/Corequisites: Course Completion of EMC 110A (or EMC 270A)

Recommended:

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:

Not Certificate/Major Applicable

COURSE CONTENT

Outcomes and Objectives:

Course objectives are written to conform with those standards outlined in Chapter 1260 of the 1992 statutes of the Health and Safety Code and Title 22 Division 9, Pre-Hospital Emergency Medical Services of the California Administrative Code. Objectives listed are for the state mandate divisions, upon the completion of the clinical rotations in the intensive/coronary care unit, pediatric, labor and delivery, burn unit, emergency department the student will be able to:

1. Demonstrate communication and leadership skills needed in the pre-hospital setting.
2. Demonstrate complete patient assessment.
3. Demonstrate all methods of delivering oxygen therapy to patients as it relates to the pre-hospital setting.
4. Demonstrate ability to establish venous access.
5. Calculate drug doses and intravenous drip rates.
6. Demonstrate administration of chemicals as prescribed.
7. Demonstrate pre-hospital management of patients with airway emergency.
8. Demonstrate skills necessary to splint/immobilize all types of soft tissue and musculoskeletal injuries.
9. Demonstrate pre-hospital management of chest trauma.
10. Demonstrate pre-hospital management of abdominal trauma.
11. Demonstrate pre-hospital management of head & spinal cord injuries.
12. Demonstrate pre-hospital management of a patient with multi system trauma.
13. Demonstrate pre-hospital management of a patient with burns.
14. Recognize normal and abnormal cardiac rhythms.
15. Administer appropriate chemicals to treat abnormal cardiac rhythms.
16. Demonstrate pre-hospital management of a patient with a cardiovascular emergency.

17. Demonstrate pre-hospital management of a patient with a respiratory emergency.
18. Demonstrate pre-hospital management of a patient with an identified medical emergency of the endocrine, nervous, gastrointestinal, genitourinary and reproductive systems.
19. Demonstrate pre-hospital management of a patient under the influence of alcohol or other chemical substance.
20. Demonstrate proper technique of handling infectious disease issues in the pre-hospital setting.
21. Demonstrate the assessment and treatment of a pediatric patient in a pre-hospital setting.
22. Demonstrate assisting a pre-hospital delivery.
23. Demonstrate assessment and treatment of a neonate.
24. Demonstrate pre-hospital management of a patient exhibiting a behavioral emergency.

Topics and Scope:

The following will relate to work in the hospital or clinic environment:

1. Practical application of paramedic theory and skills in clinical setting
 - a. leadership
 - b. patient assessment
 - c. verbal and written communication
2. Clinical assessment and management of adult and pediatric patient with medical/surgical needs
 - a. airway management
 - b. intravenous administration
 - c. pharmacology
3. Review of anatomy & physiology of the adult & pediatric patient
4. Electrocardiology
 - a. review criteria
 - b. treatment protocols
5. Clinical assessment & management of obstetrical patient
6. Emergency care of adult & pediatric patients
7. Management of patient under the influence of drug and/or alcohol
8. Infection control and precautions
9. Development of problem solving strategies for patient care

Assignment:

Students maintain a log book, journal and an electronic data base of all patient contacts and skill demonstration. These items will reflect student performance in areas including but not limited to identification of dysrhythmias, oxygen administration, patient assessment and management of the ill or injured patient. In addition, students are assigned:

1. completion of 10 case studies
2. interpretation of 10 electrocardiograms
3. research 20 home medications

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.

journal

Writing
10 - 25%

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

None

Problem solving
0 - 0%

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

Field work, dysrhythmia, oxygen therapy

Skill Demonstrations
20 - 40%

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

None

Exams
0 - 0%

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

clinical evaluations

Other Category
40 - 60%

Representative Textbooks and Materials:

Bledsoe et.al, Paramedic Care Principles and Practices, 2001

Campbell, Basic Trauma Life Support, 5th Edition

Holland & Adams, Core Concepts in Pharmacology, 2004

Gausche-Hill, Pediatric Education for Pre-hospital Professionals, 2001