

**EMC 130B Course Outline as of Fall 2015****CATALOG INFORMATION**

Dept and Nbr: EMC 130B Title: PARAMEDIC II

Full Title: Paramedic II - Medical Emergencies

Last Reviewed: 2/12/2018

| Units   |      | Course Hours per Week |       | Nbr of Weeks | Course Hours Total |        |
|---------|------|-----------------------|-------|--------------|--------------------|--------|
| Maximum | 8.50 | Lecture Scheduled     | 6.50  | 17.5         | Lecture Scheduled  | 113.75 |
| Minimum | 8.50 | Lab Scheduled         | 6.00  | 6            | Lab Scheduled      | 105.00 |
|         |      | Contact DHR           | 0     |              | Contact DHR        | 0      |
|         |      | Contact Total         | 12.50 |              | Contact Total      | 218.75 |
|         |      | Non-contact DHR       | 0     |              | Non-contact DHR    | 0      |

Total Out of Class Hours: 227.50

Total Student Learning Hours: 446.25

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:

**Catalog Description:**

Second course in a series leading to the completion of paramedic didactic training. Emphasis is on assessment and treatment of cardiac and other medical emergencies in the pre-hospital environment. Meets standards for both the California Health and Safety Code, Title 22 and the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT).

**Prerequisites/Corequisites:**

Concurrent Enrollment in EMC 130A, EMC 130C, EMC 130D and EMC 131A (Students must successfully complete each prior course in the sequence to avoid having to repeat the entire sequence.)

**Recommended Preparation:****Limits on Enrollment:**

Enrollment in Paramedic Academy

**Schedule of Classes Information:**

Description: Second course in a series leading to the completion of paramedic didactic training. Emphasis is on assessment and treatment of cardiac and other medical emergencies in the pre-

hospital environment. Meets standards for both the California Health and Safety Code, Title 22 and the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT). (Grade Only)

Prerequisites/Corequisites: Concurrent Enrollment in EMC 130A, EMC 130C, EMC 130D and EMC 131A (Students must successfully complete each prior course in the sequence to avoid having to repeat the entire sequence.)

Recommended:

Limits on Enrollment: Enrollment in Paramedic Academy

Transfer Credit:

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

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

|                      |                      |                   |                  |
|----------------------|----------------------|-------------------|------------------|
| <b>AS Degree:</b>    | <b>Area</b>          | <b>Effective:</b> | <b>Inactive:</b> |
| <b>CSU GE:</b>       | <b>Transfer Area</b> | <b>Effective:</b> | <b>Inactive:</b> |
| <b>IGETC:</b>        | <b>Transfer Area</b> | <b>Effective:</b> | <b>Inactive:</b> |
| <b>CSU Transfer:</b> | <b>Effective:</b>    | <b>Inactive:</b>  |                  |
| <b>UC Transfer:</b>  | <b>Effective:</b>    | <b>Inactive:</b>  |                  |

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of the course, students will be able to:

Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the emergent patient:

1. In shock.
2. With respiratory problems.
3. With cardiovascular disease.
4. With a neurological problem.
5. With an endocrine problem.
6. With an allergic or anaphylactic reaction.
7. With a gastrointestinal or urological problem.
8. With a toxic exposure.
9. With behavioral emergencies.
10. With a gynecological emergency.
11. Experiencing normal or abnormal obstetrical labor and delivery.

### **Topics and Scope:**

- I. Shock States
  - a. Anatomy/physiology/pathophysiology
  - b. Hemorrhagic
  - c. Cardiogenic

- d. Obstructive
- e. Distributive
- f. Anaphylaxis
- g. Assessment and management
- II. Respiratory Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Chronic obstructive diseases
  - c. Asthma
  - d. Assessment and management
- III. Cardiovascular Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Electrocardiogram (ECG) monitoring and interpretation
  - c. Advanced Cardiac Life Support (ACLS)
  - d. Assessment and management
- IV. Neurological Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Altered mental status
  - c. Cerebral Vascular Accidents (CVA)
  - d. Seizures
  - e. Neuro muscular diseases
  - f. Assessment and management
- V. Endocrine Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Diabetes Mellitus
  - c. Primary and secondary disease
  - d. Assessment and management
- VI. Gastric Intestinal, Renal and Urological Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Upper and lower gastrointestinal disease
  - c. Renal failure
  - d. Renal calculi
  - e. Testicular torsion
  - f. Urinary tract infection
  - g. Assessment and management
- VII. Toxic Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Alcoholism
  - c. Poisoning
  - d. Overdose
  - e. Assessment and management
- VIII. Behavioral Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Suicide
  - c. Depression
  - d. Excited delirium
  - e. Restraints
  - f. Assessment and management
- IX. Gynecological Emergencies
  - a. Anatomy/physiology/pathophysiology
  - b. Pelvic inflammatory disease
  - c. Sexually transmitted diseases
  - d. Assessment and management

## X. Obstetrics

- a. Anatomy/physiology/pathophysiology
- b. Normal labor and delivery
- c. Ectopic pregnancy
- d. Obstetric emergencies
- e. Assessment and management

### Assignment:

1. Reading 50-80 pages per week
2. Memorize 15-20 treatment protocols
3. Memorization of 10-15 skills sheets, cardiac and respiratory
4. 10-15 quizzes
5. ACLS test
6. 10-15 group medical emergency scenarios
7. 5-10 Patient Care Reports
8. 2 -4 written examinations
9. 2 -4 skills performance examinations
10. Title 22 mandated attendance

### 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.

Technical report writing (patient care reports)

Writing  
5 - 10%

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

Group scenario, involving team leadership

Problem solving  
10 - 20%

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

Skill performance (including cardiac and respiratory management)

Skill Demonstrations  
30 - 40%

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

Quizzes and exams: short answer, multiple choice

Exams  
30 - 40%

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

Attendance and participation

Other Category  
15 - 25%

**Representative Textbooks and Materials:**

Instructor prepared materials

Prehospital Emergency Pharmacology (6th). B. Bledsoe. Prentice Hall: 2005

Paramedic Care -5 (3rd). B. Bledsoe. Prentice Hall: 2009

ECG's Made Easy (4th). B. Aehlert. Mosby: 2010

Drug Reference for EMS Providers (3rd). Beck. R. Delmar: 2003 (classic)

ALS Version EMS Field Guide (19th). Infor Med

Advanced Cardiac Life Support Provider, American Heart Association: 2011