

**EMC 133B Course Outline as of Fall 2024****CATALOG INFORMATION**

Dept and Nbr: EMC 133B Title: PARAMEDIC 1B - TRAUMA

Full Title: Paramedic Theory 1B - Trauma Emergencies

Last Reviewed: 2/12/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.50	Lecture Scheduled	8.00	4	Lecture Scheduled	32.00
Minimum	2.50	Lab Scheduled	10.00	4	Lab Scheduled	40.00
		Contact DHR	0		Contact DHR	0
		Contact Total	18.00		Contact Total	72.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 64.00

Total Student Learning Hours: 136.00

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 130D

**Catalog Description:**

Second didactic course in a series leading to the completion of paramedic didactic training. Emphasis on the assessment and treatment of the trauma patient in the field care 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:**

Course Completion of EMC 109

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

Enrollment in Paramedic Academy

**Schedule of Classes Information:**

Description: Second didactic course in a series leading to the completion of paramedic didactic training.

Emphasis on the assessment and treatment of the trauma patient in the field care 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: Course Completion of EMC 109

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>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:

<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
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<b>CSU Transfer:</b>	Effective:	Inactive:
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<b>UC Transfer:</b>	Effective:	Inactive:
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**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression for an acutely injured patient.
2. Implement a comprehensive treatment and disposition plan for an acutely injured patient.
3. Complete the Prehospital Trauma Life Support (PHTLS) certification.

### **Objectives:**

At the conclusion of this course, the student should be able to:

1. Relate a mechanism of injury to potential traumatic injuries.
2. Develop a systematic approach to scene size up and control.
3. Perform an assessment of the trauma patient.
4. Integrate knowledge of anatomy, physiology and pathophysiology to the trauma patient.
5. Given a scenario, demonstrate a rapid assessment and management of the trauma patient.

### **Topics and Scope:**

- I. Scene Size-Up
  - A. Mechanism of injury
  - B. Scene safety
- II. Trauma Pathophysiology
- III. Trauma Assessment
  - A. Primary survey
  - B. Secondary survey
  - C. Reassessment

#### IV. Trauma Management

- A. Airway management
- B. Vascular access
- C. Splinting
- D. Extrication

#### V. Traumatic Injuries

- A. Head and neck
- B. Thorax
- C. Abdominal
- D. Musculoskeletal
- E. Burns

#### VI. Special Circumstances

- A. Pediatrics
- B. Elderly
- C. Drug and alcohol
- D. Trauma arrest

All areas of the Topics and Scope are covered in both the Lecture and Lab portions of the course

#### Assignment:

##### Lecture-Related Assignments:

1. Reading 50-80 pages per week
2. Interpretation of 5-10 trauma treatment protocols
3. Research paper (6 -7 page)

##### Lab-Related Assignments:

1. Demonstration of 5-10 trauma skills
2. Quizzes (6)
3. Summative trauma written exam (1)
4. Trauma scenarios (5 – 10)
5. PHTLS written and practical exam
6. Title 22 mandated attendance
7. Patient care reports (5 - 10)

#### 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), research paper

Writing  
5 - 10%

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

Patient simulations, patient scenarios

Problem solving  
10 - 20%

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

Skill performance examinations

Skill Demonstrations  
30 - 40%

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

Quizzes, short answers, multiple choice, substantive exams

Exams  
30 - 40%

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

Affective behavior, attendance, participation in class discussions

Other Category  
15 - 25%

**Representative Textbooks and Materials:**

Paramedic Care: Principles and Practice, Vols. 1-5. 5th ed. Bledsoe, Bryan and Porter, Robert and Cherry, Richard. Pearson. 2016

PHTLS: Prehospital Trauma Life Support / Edition 8. National Association of EMTs. Jones & Bartlett. 2014

FISDAP Tracking and Testing Software