## EMC 109 Course Outline as of Fall 2024

# **CATALOG INFORMATION**

Dept and Nbr: EMC 109 Title: INTRO TO PARAMEDIC Full Title: Introduction to Paramedic Last Reviewed: 2/25/2019

Units		<b>Course Hours per Week</b>		Nbr of Weeks	<b>Course Hours Total</b>	
Maximum	0.25	Lecture Scheduled	2.75	1	Lecture Scheduled	2.75
Minimum	0.25	Lab Scheduled	5.25	1	Lab Scheduled	5.25
		Contact DHR	0		Contact DHR	0
		Contact Total	8.00		Contact Total	8.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 5.50

Total Student Learning Hours: 13.50

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:	EMC 260

## **Catalog Description:**

Course is designed to prepare the student with the basic knowledge and skills necessary to succeed in the Paramedic Academy.

## **Prerequisites/Corequisites:**

## **Recommended Preparation:**

Course Completion of EMC 114 (Basic Arrhythmia) and one of the following: ANAT 40; ANAT 58; PHYSIO 58. Course eligibility of CSKLS 372

#### **Limits on Enrollment:**

State regulation requires EMT-1 certification and CPR for Health Care Providers for entrance into paramedic program.

## **Schedule of Classes Information:**

Description: Course is designed to prepare the student with the basic knowledge and skills necessary to succeed in the Paramedic Academy. (Grade Only) Prerequisites/Corequisites: Recommended: Course Completion of EMC 114 (Basic Arrhythmia) and one of the following: ANAT 40; ANAT 58; PHYSIO 58. Course eligibility of CSKLS 372 Limits on Enrollment: State regulation requires EMT-1 certification and CPR for Health Care Providers for entrance into paramedic program. Transfer Credit: Repeatability: Two Repeats if Grade was D, F, NC, or NP

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

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

# 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. Identify criteria that will lead to successful completion of the paramedic academy.
- 2. Demonstrate Basic Emergency Medical Technician (EMT) knowledge, skills and abilities that

lead to paramedic academy success.

# **Objectives:**

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

- 1. Define the roles and responsibilities of the paramedic in the pre-hospital care setting.
- 2. Define the California basic paramedic scope of practice.
- 3. Outline California licensing requirements for paramedics.
- 4. Apply knowledge of human anatomy and physiology to the emergency patients.
- 5. Apply knowledge of EMT to emergency patients.
- 6. Identify basic cardiac dysrhythmias.
- 7. Demonstrate EMT skills.
- 8. Apply basic math skills required for pharmacology.
- 9. Demonstrate effective communication and leadership skills utilized by paramedics.

# **Topics and Scope:**

- I. Human Anatomy and Physiology
  - A. Understanding of human anatomy consistent with paramedic practice
  - B. Understanding of human physiology consistent with paramedic practice
- II. Basic EMT Knowledge and Skills
  - A. Preparatory
  - B. Patient assessment

- C. Traumal emergencies
- D. Medical emergencies
- E. Pediatric emergencies
- F. Mass casualty incident management
- III. The Pre-Hospital Roles and Responsibilities of Paramedic
  - A. Scene management
  - B. Communications and documentation
  - C. Leadership
  - D. Stress management
- IV. California Title 22 Paramedic Practice
  - A. Scope of practice
  - B. License requirements
- V. Basic Cardiology Common Dysrhythmias
- VI. Learning Domains of Paramedic Education
  - A. Cognitive
  - B. Psychomotor
  - C. Affective

VII. Pharmacology Math

- A. Drug Dosage
- B. IV drip calculation

All topics are covered in the lecture and lab portions of the course.

#### Assignment:

Lecture-Related Assignments:

- 1. Identify 5 cardiac dysrhythmias (ungraded)
- 2. Communication and leadership essay

Lab-Related Assignments:

- 1. Demonstrate EMT skills in airway management and patient assessment
- 2. Multiple-choice exam demonstrating EMT and paramedic pre-requisite knowledge
- 3. Discuss EMT assessment and treatment plan for 3 patient scenarios

## 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.

Essay

Writing 0 - 5%

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

Scenario interaction

Problem solving 10 - 20%

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

Psychomotor skills: airway and patient assessments

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

Multiple choice exam, essay

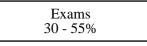
**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

## **Representative Textbooks and Materials:**

Instructor prepared materials.

Skill Demonstrations
25 - 50%



Other Category 0 - 0%