

**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   |      | Course Hours per Week |      | Nbr of Weeks | Course Hours Total |      |
|---------|------|-----------------------|------|--------------|--------------------|------|
| 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:**

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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: |
| <b>CSU Transfer:</b> |                      | Effective: | Inactive: |
| <b>UC Transfer:</b>  |                      | 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. Trauma 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<br>0 - 5% |
|-------------------|

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

|                      |
|----------------------|
| Scenario interaction |
|----------------------|

|                             |
|-----------------------------|
| Problem solving<br>10 - 20% |
|-----------------------------|

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

Psychomotor skills: airway and patient assessments

Skill Demonstrations  
25 - 50%

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

Multiple choice exam, essay

Exams  
30 - 55%

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

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

Instructor prepared materials.