

EMC 100 Course Outline as of Fall 2009**CATALOG INFORMATION**

Dept and Nbr: EMC 100 Title: EMC/FIRST RESPONDER

Full Title: Emergency Care for First Responders

Last Reviewed: 12/10/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	1.50	17.5	Lecture Scheduled	26.25
Minimum	2.00	Lab Scheduled	1.50	8	Lab Scheduled	26.25
		Contact DHR	1.00		Contact DHR	17.50
		Contact Total	4.00		Contact Total	70.00
		Non-contact DHR	1.00		Non-contact DHR	17.50

Total Out of Class Hours: 52.50

Total Student Learning Hours: 140.00

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 290

Catalog Description:

Manipulative and problem solving skills required for the individual interested in pursuing a career as a first responder to victims of illness or injury. Upon completion of course, student receives both CPR for Health Care Providers and First Responder certificates.

Prerequisites/Corequisites:**Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: Manipulative & problem solving skills necessary for the individual interested in pursuing a career as a first responder to victims of illness or injury. Upon completion of course, student receives both CPR & First Responder certificates. (Grade Only)

Prerequisites/Corequisites:

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:

Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course, the student will:

1. Discuss the role of the First Responder in the emergency medical system.
2. Describe the components of the EMS system.
3. Discuss at least 5 medical legal aspects of emergency care.
4. Describe 5 vital signs and demonstrate ability to assess and record.
5. Describe at least 4 elements of a patient assessment plan and demonstrate skill of total body exam procedure.
6. Describe and demonstrate components of oxygen therapy.
7. Identify and discuss at least 5 basic components of respiratory anatomy and physiology.
8. Identify at least 5 respiratory emergencies and their treatment.
9. Identify at least 5 basic anatomy and physiology components of the cardiovascular system.
10. Demonstrate effective cardio pulmonary resuscitation skills.
11. Identify at least 2 cardiac emergencies and their treatment.
12. Identify and describe 7 types of shock and their treatment.
13. Demonstrate 4 methods of controlling bleeding.
14. Identify major bones of the body.
15. Describe at least 4 musculo-skeletal injuries and treatment.
16. Identify transmission route of 2 infectious diseases.
17. Identify at least 2 signs and symptoms of behavioral emergencies.
18. Identify 4 routes of poisoning.
19. Describe the pathophysiology of at least 3 medical emergencies which alter the level of consciousness.
20. Demonstrate the assessment of an unconscious patient.
21. Identify the signs and symptoms of at least 6 major trauma injuries.

22. Demonstrate assessment and treatment of 6 major trauma injuries.
23. Discuss multi casualty incidents utilizing Simple Triage and Rapid Treatment (START) triage system.
24. Describe and demonstrate technique of emergency childbirth.

Topics and Scope:

1. Overview
 - a. EMS system
 - b. Legal aspects
2. Patient assessment
 - a. Vital signs
 - b. Level of consciousness
 - c. Exam
3. Oxygen therapy
 - a. Airway management
 - b. Airway adjuncts
4. Respiratory system
 - a. Anatomy
 - b. Disease and treatment
5. Cardiovascular system
 - a. Anatomy
 - b. Disease and treatment
 - c. CPR
6. Circulatory system
 - a. Shock
 - b. Control of bleeding
7. Skeletal system
 - a. Anatomy
 - b. Injury and treatment
 - c. Splinting and immobilization
8. Trauma
 - a. Abdominal
 - b. Head
 - c. Chest
 - d. Triage -START
9. Altered level of consciousness
 - a. Diabetes
 - b. Stroke
 - c. Seizures
10. Behavioral emergencies
 - a. Psychological
 - b. Substance abuse
11. Environmental emergencies
 - a. Burns
 - b. Cold
 - c. Head
12. Obstetrics and gynecological
 - a. Childbirth
 - b. Complications
 - c. Pediatric/infant resuscitation
13. Infectious disease

- a. Transmission
- b. Universal precautions

Assignment:

1. Read approximately 24 pages per week.
2. Complete 17 skills worksheet handouts.
3. Observe and demonstrate assigned skills
4. Participate in scenario based exercises.
5. 3 division exams 1 final exam.

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.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

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

scenario based exercises

Problem solving
5 - 10%

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

Class performances, interactive scenarios

Skill Demonstrations
30 - 50%

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

Multiple choice, True/false

Exams
30 - 50%

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

Attendance and participation

Other Category
5 - 10%

Representative Textbooks and Materials:

Bergeron- First Responder with Course Compass 7th ed.
American Heart Assoc. - Fundamentals BLS Health Care Provider pub. 2005
Instructor prepared material