EMC 100 Course Outline as of Fall 2006

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