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Course Outline for EMS 30
EMERGENCY MEDICAL RESPONDER
Effective: Fall 2016

I. CATALOG DESCRIPTION:

EMS 30 — EMERGENCY MEDICAL RESPONDER — 3.00 units

Development of knowledge and skills necessary for recognizing and caring for emergency situations, including cardiopulmonary resuscitation, prevention of disease transmission, and automated external defibrillation. Designed for first responders in an emergency. Successful completion of the knowledge, skills tests and with a successful completion of the course at 80% accumulative points and the summative final at (80%) qualifies for a American Safety and Health Institute(ASHI) "First Responder" Certificate and an American Heart Association "Basic Life Support Health Care Provider" Certificate. 2 hours lecture, 3 hours laboratory.

2.00 Units Lecture 1.00 Units Lab

Grading Methods:

Letter Grade

Discipline:

	MIN
Lecture Hours:	36.00
Lab Hours:	54.00
Total Hours:	90.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

1. explain how the Emergency Medical Services (EMS) system works and how the first responder's role in the EMS system differs from citizen responder's role
2. identify guidelines to follow to ensure personal safety and the safety of others at an emergency scene
3. explain what happens in the body if one or more body systems fail to function
4. identify ways in which diseases are transmitted and describe the universal safety precautions to prevent transmission
5. explain the four emergency action principles
6. recognize breathing emergencies, such as choking, and provide proper care for them
7. recognize life-threatening bleeding and demonstrate how to control it
8. identify the major risk factors for cardiovascular disease and injury, and describe how to control them
9. recognize the signs and symptoms of a possible heart attack, and describe how to care for someone who is experiencing a persistent chest pain and/or other signs and symptoms of heart attack
10. recognize the signs and symptoms of cardiac arrest, and demonstrate how to provide cardiopulmonary resuscitation (CPR) for the infant, child and adult
11. identify breathing devices and demonstrate how to use them
12. recognize the signs and symptoms of shock, and describe how to minimize the effects of shock
13. recognize the signs and symptoms of medical emergencies, including poisoning, heat and cold emergencies, and stroke, and describe both general and specific care for medical emergencies
14. recognize the signs and symptoms of medical emergencies, including poisoning, heat and cold emergencies, and stroke, and describe both general and specific care for medical emergencies
15. recognize emergency care needs of special populations
16. describe the care of the pregnant woman to include child birth and care of the newborn
17. identify situations that require crisis intervention
18. identify the correct process for gaining access and moving patients
19. describe the process for managing multiple casualty incidents
20. recognize situations that require automated external defibrillation
21. recognize the importance of healthy life styles, to include illness and injury prevention

V. CONTENT:

- A. The first responder and the emergency medical system
- B. The emergency scene
- C. The human body
- D. Preventing disease transmission
- E. Establishing priorities of care: to include primary and secondary survey, respiratory emergencies, breathing adjuncts, cardiac

- emergencies, bleeding and shock
- F. Traumatic injuries
- G. Medical emergencies
- H. Special situations to include pediatric patients, elderly patients, physically or mentally challenged patients
- I. Childbirth
- J. Crisis intervention to include specific emotional crisis, stages of grief, critical incident stress debriefing
- K. Reaching and moving victims
- L. Multi-casualty incidents
- M. Automated external defibrillation
- N. Healthy lifestyle and prevention of illness and injury

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lectures in basic concepts and skills
- B. Reading assignments in text
- C. **Written exercises and case studies** - Written assignments from workbook
- D. **Audio-visual Activity** - Video tapes and overhead presentations
- E. **Demonstration** - Skills, demonstrations and practice

VII. TYPICAL ASSIGNMENTS:

- A. Lecture/video presentation 1. Role of the first responder, Lesson #1. B. Reading 1. Read "About This Course" in the text. 2. Read Chapter "The First Responder" in the text. C. Instructor presentation of skill and student practice session 1. Presentation of skill: measuring blood pressure by palpation and auscultation 2. Student practice session: using provided blood pressure cuffs and stethoscopes, measure palpation and auscultation D. Video tape and overhead presentation 1. Video: Show video segment "The First Responder" 2. Overhead presentation: Show overhead transparencies #3,4,5,6 E. Written assignments from workbook 1. Complete Unit 1 in workbook and answer the review questions

VIII. EVALUATION:

A. **Methods**

- 1. Exams/Tests
- 2. Quizzes
- 3. Other:
 - a. Objective examinations and quizzes, taken from lecture and text reading assignments.
 - b. Final must be completed with an 80% proficiency for certification to be issued.

B. **Frequency**

- 1. Ten (10) periodic quizzes, midterm, final exam and CPR exam
- 2. Skills proficiency is evaluated periodically and is a part of the final examination

IX. TYPICAL TEXTS:

- 1. American Academy of Orthopedic Surgeons. *Emergency Medical Responder*. 5th ed., JB Learning, 2011.
- 2. American Heart Association. *BLS For Health Providers*., American Heart Association, 2015.
- 3. LeBadour, Chris. *Emergency Medical Responder; First on Scene*. 10th ed., Pearson Education, 2015.
- 4. Emergency Medical Responder - Navigate. JB Learning, (4th).

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Pocket Mask for pulmonary resuscitation
- B. Blood Pressure Cuff Syphygmomanometer (optional)