

COURSE OUTLINE

EMSP 160

Prevention and Management of Emergency Situations

6 Credit Hours

HOWARD COMMUNITY COLLEGE

Description

Students will apply the basic concepts of human development, pathophysiology and pharmacology to assessment and management of emergency patients. They must be able to properly administer medications, and communicate effectively with patients and other members of the health care team. In addition, the paramedic student must be able to safely manage the scene of an emergency. Course completion of Basic Cardiac Life Support (BLS) is a required outcome of this course. Prerequisites: Current EMT Certification. MATH-060 or appropriate score on math placement test, ENGL-093 or appropriate score on English placement test, BIOL-203, BIOL-204, and Math-105. (5 hours theory, 3 hours lab)

Overall Course Objectives

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

1. Participate in an orientation of the EMSP program to include information on the following topics: personal wellness, study skills and learning styles, personal financial issues, personality profiling, and related personal development issues.
2. Describe the importance of personal wellness in EMS and serve as a healthy role model for peers.
3. Integrate the implementation of primary injury prevention activities as an effective way to reduce death, disabilities and health care costs.
4. Apply the general concepts of pathophysiology for the assessment and management of emergency patients.
5. Integrate pathophysiology principles of pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan.
6. Safely and precisely access peripheral venous circulation via IV cannulation and intraosseous routes, administer medications, establish heparin and saline locks, and draw blood utilizing the closed vacutainer system and a needle and syringe.
7. Perform medication administration via PO, SL, IV, IO, IM, SQ and PR.
8. Identify standards and guidelines that help ensure safe and effective ground and air medical transport.
9. Integrate the principles of general incident management and multiple casualty incident management techniques in order to function effectively at major incidents.
10. Integrate the principles of rescue awareness and operations to safely rescue a patient from water, hazardous atmospheres, trenches, highways, and hazardous terrain.
11. Evaluate hazardous material emergencies, call for appropriate resources, and work in the cold zone.
12. Have an awareness of the human hazard of crime and violence and the safe operation at crime scenes and other emergencies.

Major Topics

1. The Well-Being of the Paramedic

2. Illness and Injury Prevention
3. General Principles of Pathophysiology
4. Pharmacology
5. Venous Access, Blood Drawing, and Medication Administration (PO, SL, IV, IO, IM, SQ and PR)
6. Ambulance Operations
7. Medical Incident Command
8. Rescue Awareness and Operations
9. Hazardous Materials Incidents
10. Crime Scene Awareness

Course Requirements

Grading/Exams/Readings:

Refer to the current HCC Catalogue for additional information regarding HCC's grading policies.

The grade for this course is determined as follows:

Cognitive Domain	34%
Coursework in the cognitive domain may be comprised of the following:	
Homework	
Projects	
Quizzes	
Midterm	
Tests	
Final comprehensive examination	

Affective Domain	33%
Coursework in the affective domain may be comprised of the following:	
Participation	
Affective Domain Evaluation Instrument	
Clinical Performance	

Psychomotor Domain	33%
Coursework in the psychomotor domain may be comprised of the following:	
Skills Check-off Sheets	
Practical Skills Evaluation	
Clinical Performance	

Total	100%
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Other Course Information:

Required course for Emergency Medical Services Program