

# COURSE OUTLINE

## EMSP 200

### Airway, Patient Assessment & Trauma Management

9 Credit Hours

## HOWARD COMMUNITY COLLEGE

### Description

Students will be able to establish and/or maintain a patent airway, oxygenate and ventilate a patient utilizing basic and advanced level skills, take a proper history and perform a comprehensive physical exam on any patient, and communicate the findings to others. In addition, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the trauma patient. Prerequisite: EMSP-160. (7 hours theory, 6 hours lab)

### Overall Course Objectives

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

1. Establish and/or maintain a patent airway, oxygenate and ventilate a patient utilizing basic and advanced techniques.
2. Demonstrate surgical airways.
3. Discuss the indications for and demonstrate suctioning of the oropharynx, nasopharynx and trachea.
4. Discuss the indications for and demonstrate nasogastric tube placement.
5. Discuss and demonstrate the proper use of pulse oximetry, end-tidal CO<sub>2</sub> detection, FIO<sub>2</sub> monitoring, positive end-expiratory pressure, and transport ventilators.
6. Administer medications by nebulizer and through the endotracheal tube.
7. Safely perform endotracheal, nasotracheal, and blind insertion intubation in an adult patient.
8. Use the appropriate techniques to obtain a medical history from a patient.
9. Describe and perform vital signs assessment for the ABCs, to include: heart rate, rhythm, and regularity; respiratory rate and quality; lung sounds; blood pressure (including orthostatic readings); pulse oximetry; pupil assessment; capillary refill time; and otic, axillary and rectal temperatures.
10. Explain the pathophysiological significance of physical exam findings.
11. Integrate the principles of history taking and techniques of physical exam to perform a patient assessment.
12. Follow an accepted format for dissemination of patient information in verbal form, both in person and over the radio.
13. Effectively document the essential elements of patient assessment, care and transport.
14. Integrate the principles of the kinematics of trauma to enhance patient assessment and predict the likelihood of injuries based on the patient's mechanism of injury.
15. Perform a needle thoracostomy for the relief of tension pneumothorax.
16. Utilize appropriate ALS and BLS level skills in the management of trauma patients.
17. Demonstrate proper spinal immobilization for trauma patients.
18. Demonstrate skills appropriate for the management and treatment of patients listed below.
19. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with:
  1. Shock or hemorrhage
  2. Soft tissue injury
  3. Burn injury
  4. Head injury
  5. Spinal injury

6. Thoracic injury
7. Abdominal injury
8. Musculoskeletal injury

### **Major Topics**

1. ALS and BLS airway and ventilation management
2. Administration of drugs via the ET and nebulizer routes
3. History Taking
4. Techniques of Physical Examination
5. Patient Assessment
6. Clinical Decision Making
7. Communication
8. Documentation
9. Trauma Systems/Mechanism of Injury
10. Hemorrhage & Shock
11. Soft Tissue Injuries
12. Burns
13. Head & Facial Trauma
14. Spinal Trauma
15. Thoracic Trauma
16. Abdominal Trauma
17. Musculoskeletal Trauma

### **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:

|   |            |
|---|------------|
| <b>Cognitive Domain</b>   | <b>34%</b> |
| Coursework in the cognitive domain may be comprised of the following: |            |
| Homework  |            |
| Projects  |            |
| Quizzes   |            |
| Midterm   |            |
| Tests   |            |
| Final comprehensive examination                                       |            |

|   |            |
|---|------------|
| <b>Affective Domain</b>   | <b>33%</b> |
| Coursework in the affective domain may be comprised of the following: |            |
| Participation   |            |
| Affective Domain Evaluation Instrument                                |            |
| Clinical Performance  |            |

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

|              |             |
|--------------|-------------|
| <b>Total</b> | <b>100%</b> |
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### **Other Course Information:**

Required course for Emergency Medical Services Program