



Broward Community College

Course Outline

Status: A

COMMON COURSE NUMBER: EMS 1119L

COURSE TITLE: Emergency Medical Technician Lab

PREREQUISITE(S): None

COREQUISITE(S): EMS 1119, 1411, 1421

CREDIT HOURS: 1

CREDIT HOUR BREAKDOWN:

Lecture/Discussion: 00

Laboratory: 32

Other 00

CONTACT HOURS/WEEK: 2

CATALOG COURSE DESCRIPTION:

Lab practice and testing of basic emergency medical technician skills included in the Department of Transportation EMT/Ambulance curriculum and Florida State EMS guidelines. Skills include CPR at AHA Basic Rescuer level, patient assessment, triage, airway maintenance, bandaging, splinting, MAST suit application, emergency childbirth, and basic extrication. Successful completion of co-requisites EMS 1119, EMS 1119L, EMS 1411, and EMS 1421 leads to eligibility to take Florida State EMT certification examination. Health and accident insurance is recommended.

Term Offered:

UNIT TITLES:

1. **Diagnostic Signs and Triage**
2. **Injuries of the Chest**
3. **Bleeding and Control of bleeding**
4. **Shock**
5. **Basic Life Support**
6. **Oxygen Therapy & Equipment**
7. **Soft Tissue Injuries**
8. **Fractures, Dislocations, & Sprains**
9. **Injuries of the Eye, Face & Throat**
10. **Childbirth**
11. **Heat Exposure**
12. **Emergency Vehicles, Equipment & Maintenance**

LAST REVIEW Academic Year 2004-2005 NEXT REVIEW Academic Year 2009-2010

Interim Revision Dates:

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I. Course Overview:

Upon successful completion of this course, the students should be able to perform the skills of CPR at AHA Basic Rescue level, patient assessment, triage, airway maintenance, bandaging, splinting, MAST suit application, emergency childbirth & basic extrication.

II. Units:

Unit 1. Diagnostic Signs and Triage

General Outcome:

- 1.0 The students should be able to assess for primary and secondary life threatening injuries and check vital signs.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Given a victim, demonstrate a primary survey for life-threatening injuries.
- 1.2 Given a victim, conduct a secondary survey for other than life-threatening injuries.
- 1.3 Demonstrate the proper method for taking a patient's blood pressure, pulse, respirations, and recording the results.

Unit 2. Injuries of the Chest

General Outcome:

- 2.0 The students should know the types of chest injuries and demonstrate care of patients with chest injuries.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Demonstrate the management of a patient with an impaled object in the chest.
- 2.2 Demonstrate proper control of airway and ventilations in a patient who is apneic.
- 2.3 Demonstrate the correct technique for insertion of the E.O.A. and E.G.T.A.

Unit 3. Bleeding and Control of Bleeding

General Outcome:

- 3.0 The students should know how to recognize the existence of internal and external bleeding and demonstrate proper care.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Demonstrate techniques for controlling external bleeding of the head and torso.
- 3.2 Demonstrate caring for a person with known or suspected internal bleeding.

Unit 4. Shock

General Outcome:

- 4.0 The students should understand the physiology of shock and demonstrate proper treatment of shock.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Demonstrate the general care and treatment of shock.
- 4.2 Demonstrate the proper application of Medical Anti-Shock Trousers.

Unit 5. Basic Life Support

General Outcome:

5.0 The students should be able to demonstrate proper basic life support.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Demonstrate procedures for determining whether or not a victim has an open airway.
- 5.2 Demonstrate the heart-lung-brain relationship as it affects life and explain what occurs when an airway obstruction is not corrected.
- 5.3 Demonstrate on a mannequin the techniques for opening an airway obstructed by the tongue for patients with and without suspected spine injuries.
- 5.4 Demonstrate on a mannequin use of blows to dislodge foreign objects from the airway for patients with and without suspected spine injuries.
- 5.5 Demonstrate on an upright and supine mannequin the abdominal and chest thrust methods for dislodging foreign objects from the airway.
- 5.6 Demonstrate on a mannequin the mouth-to-mouth and mouth-to-nose techniques of pulmonary resuscitation.
- 5.7 Demonstrate on an infant mannequin the mouth/nose technique of pulmonary resuscitation.
- 5.8 Demonstrate on a mannequin the use of oropharyngeal and nasopharyngeal suctioning equipment.
- 5.9 Demonstrate on an adult mannequin the one and two person techniques of administering cardiopulmonary resuscitation.
- 5.10 Demonstrate on an infant mannequin the one and two person techniques of administering cardiopulmonary resuscitation.

Unit 6. Oxygen Therapy and Equipment

General Outcome:

6.0 The students should be able to demonstrate proper use of ventilation devices.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

6.1 Demonstrate on an adult mannequin the use of breathing aid equipment carried in the ambulance, and explain the precautions and maintenance of each unit.

Unit 7. Soft-Tissue Injuries

General Outcome:

- 7.0 The students should know the types of open and closed soft tissue injuries and their treatment.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 7.1 Demonstrate the proper procedure for dressing and bandaging open wounds of the arm/leg, elbow/knee, forehead/scalp, neck, shoulder and hand/foot.
- 7.2 Demonstrate the immobilization and management of an impaled foreign object.
- 7.3 Amputation

Unit 8. Fractures and Dislocations and Sprains

General Outcome:

- 8.0 The students should understand the common injuries to the musculoskeletal system and demonstrate proper treatment.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 8.1 Demonstrate the proper examination of a suspected fracture or dislocation.
- 8.2 Describe the method used to stop severe bleeding in an extremity.
- 8.3 Demonstrate the methods of controlling external bleeding in an extremity including the use of a tourniquet.
- 8.4 Demonstrate the use of all types of splints carried in the ambulance.
- 8.5 Demonstrate the proper method of immobilizing and managing a patient with a fractured or dislocated spine.

Unit 9. Injuries of the Eye, Face, and Throat

General Outcome:

- 9.0 The students should know the effects of various injuries of the eye on function of the eye and demonstrate proper procedures.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 9.1 Demonstrate the proper method of removing a foreign body from under the upper eyelid of a patient.
- 9.2 Demonstrate the proper care and management when a large foreign body becomes impaled in the eye of a patient.
- 9.3 Demonstrate the proper treatment for injuries to the eyes.
- 9.4 Demonstrate the proper treatment for injuries to the face.
- 9.5 Demonstrate the proper treatment for injuries to the neck.

Unit 10. Childbirth

General Outcome:

10.0 The students should understand the basic principles of labor and childbirth and demonstrate proper procedures.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 10.1 Demonstrate on an obstetrical mannequin the correct procedures for both normal and abnormal births.
- 10.2 Demonstrate on a resuscitation mannequin procedures for resuscitating the newborn, including administration of oxygen.

Unit 11. Heat Exposure

General Outcome:

11.0 The students should understand the types of heat exposure and demonstrate proper treatment.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

11.1 Demonstrate the emergency care for thermal, chemical, and radiation burns.

Unit 12. Emergency Vehicles, Equipment, and Maintenance

General Outcome:

- 12.0 The students should understand the importance of the procedures for emergency vehicle maintenance.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 12.1 Demonstrate the care and maintenance of the ambulance and the equipment carried on the ambulance.
- 12.2 Given equipment carried in the ambulance and operating as a member of a team, demonstrate the extrication of a victim from a vehicle accident.
- 12.3 Operating as a member of a team demonstrate the removal of a victim from a vehicle, using a short spine board.
- 12.4 Operating as a member of a team demonstrate placing and securing a victim on a long spine board.
- 12.5 Operating as a member of a team demonstrate the use of a scoop stretcher to remove a victim from an area.
- 12.6 Identify and demonstrate the use of each type of forcible entry tool carried on the ambulance.
- 12.7 Demonstrate the method of procedure of properly cleaning, maintaining, and inspecting each type of forcible entry tool and equipment.
- 12.8 Demonstrate the method of procedure of forcible entry through any vehicle door, window or roof, and any vertical barrier specified by the authority having jurisdiction.