



# BROWARD COLLEGE COURSE OUTLINE

**LAST REVIEW: 2009-2010**  
*(i.e. 2003-2004)*

**NEXT REVIEW: 2014-2015**  
*(i.e. 2008-2009)*

**STATUS:**  
*(A, I, D)*

**COURSE TITLE:** Paramedic Science I Lab

**COMMON COURSE NUMBER:** EMS 2631 L

**CREDIT HOURS:** 1

**CONTACT HOUR BREAKDOWN**  
*(per 16 week term)*

**CLOCK HOURS:**  
*(Voc. Course ONLY)*

Lecture:                      Lab: 32

Clinic:                         Other:

**PREREQUISITE(S):** NONE

**COREQUISITE(S):** EMS 2010, EMS 2631, EMS 2650

**PRE/COREQUISITE(S):**

**COURSE DESCRIPTION** *(750 characters, maximum):*

**CATALOG COURSE DESCRIPTION:** Review of basic life support skills required for advanced level life support skills practiced by the Paramedic. Additional skills include those contained in the latest Department of Transportation (DOT) National Paramedic Curriculum and include prep topics related to Paramedic well-being, injury prevention, ambulance operations, Medical Incident Command (MCI), Haz-Mat and crime scene awareness. The student is expected to demonstrate basic level skill proficiency in patient care scenarios appropriate for beginning Paramedic practice. Introduction of invasive skills to include venous access, IV therapy and blood draws will be covered.

## UNIT TITLES

1. Patient Assessment
2. Trauma Care
3. Airway Management and Ventilation
4. BLS Medication Administration
5. Emergency Cardiac Care
6. Basic Life Support – Resuscitative measures for adult , child and infant
7. Paramedic Well-Being - Infectious Disease Control
8. Ambulance Operations – Patient transfer techniques
9. Haz-Mat Awareness
10. Crime Scene Awareness
11. MCI – Medical Incident Command – Triage Tagging System
12. BLS Scenarios

**Common Course Number:**

## **UNITS**

### **Unit 1 Patient Assessment**

1. Vital Signs - Pulse (Rate, Rhythm, Strength, Site Comparisons, Margin of Error, Interpretation)
2. Vital Signs - Respirations (Rate, Rhythm, Depth, Sounds, Position, Effort, Interpretation)
3. Vital Signs - Blood Pressure (Auscultated and Palpated)
4. Vital Signs - Temperature (Core and/or Surface)
5. Vital Signs - Pulse Oximetry
6. Patient Documentation and SOAP recording

### **Unit 2. Trauma Care**

1. Bleeding Control - Direct Pressure, Elevation, Pressure Point Assist
2. Bleeding Control - Tourniquet (for partial or complete amputation)
3. Splinting - Suspected Long Bone Fracture (open or closed)
4. Splinting - Suspected Fracture/Dislocation of a Joint
5. Splinting - Traction Device for Suspected Femur Fracture
6. Splinting - PASG for Suspected Lower Extremity or Pelvic Fractures
7. Splinting - Short Board Device Immobilization w/ C-Collar
8. Splinting - Long Board Immobilization w/ C-Collar

### **Unit 3. Airway Management and Ventilation**

1. Airway Management - Head Tilt - Chin Lift (or Jaw Thrust)
2. Airway Management - Head Neutral - Jaw Thrust
3. Airway Management - Sniffing Position in Preparation for ET Intubation
4. Airway Management - Oropharyngeal (OP) Airway
5. Airway Management - Nasopharyngeal (NP) Airway
6. Airway Management - Suction (oral or nasal)
7. Ventilation Adjuncts - Pocket Mask
8. Ventilation Adjuncts - Bag-Valve-Mask
9. Ventilation Adjuncts - Sellick Maneuver
10. Ventilation Adjuncts - Oxygen-Powered Manually Activated Ventilator (Demand Valve or Elder Valve)
11. Ventilation Adjuncts - Oxygen-Powered Auto Vent
12. Oxygen Delivery - Nasal Cannula, Basic/Partial/Non-Rebreather Mask, Venturi Mask

### **Unit 4. BLS Medication Administration**

1. Medication Administration - Safe Sharp Handling & Disposal
2. Medication Administration - Nitroglycerin Administration
3. Medication Administration - Oral Glucose

4. Medication Administration - Epinephrine Auto-Injector
5. Medication Administration - Metered Dose Inhalers
6. Medication Administration - Inhalation Medication Nebulizers
7. Medication Administration - Oral Aspirin for Suspected Acute Myocardial Infarction
8. IV Administration set-up

#### **Unit 5. Emergency Cardiac Care**

1. Emergency Cardiac Care - Automated/Semi-Automated Defibrillation
2. Lead 1, 2, 3 Placement and Monitor Set-up

#### **Unit 6. Basic Life Support**

1. Resuscitative measures for the adult, child and infant including obstructive airway maneuvers

#### **Unit 7 Paramedic Well-Being**

1. Safe methods for lifting and moving patients in emergency and non-emergency situations.
2. Infectious Disease Control - Proper procedures to take for personal protection from disease

#### **Unit 8. Ambulance Operations -**

1. Patient transfer techniques - Moving techniques for use in patient transport

#### **Unit 9. Haz-Mat Awareness**

1. Donning and doffing of appropriate Personal Protective Equipment (PPE)
2. Set up and demonstrate an emergency two step decontamination process
3. Set up and demonstrate an eight step decontamination process

#### **Unit 10 Crime Scene Awareness**

1. Demonstrate the following techniques
  - a. Field "contact and cover" procedures during assessment and care
  - b. Evasive tactics
  - c. Concealment techniques

**Unit 11 MCI – Medical Incident Command**

1. Triage Tagging System - use of local/ regional triage tagging system used for primary and secondary triage
2. Given a simulated tabletop multiple casualty incident, with 5-10 patients
  - a. Establish unified or singular command
  - b. Conduct a scene assessment
  - c. Determine scene objectives
  - d. Formulate an incident plan
  - e. Request appropriate resources
  - f. Determine need for ICS expansion and groups
  - g. Coordinate communications and groups leaders
  - h. Coordinate outside agencies
3. Demonstrate effective initial scene assessment and update (progress) reports
4. Given a classroom simulation of a MCI with 5-10 patients, fulfill the role of triage group leader
5. Given a classroom simulation of a MCI with 5-10 patients, fulfill the role of treatment group leader
6. Given a classroom simulation of a MCI with 5-10 patients, fulfill the role of transportation group leader

**Unit12 BLS Scenarios**

1. Role play as team member and team leader in a variety of patient care scenarios demonstrating the required skills presented in this course.