



# ILLINOIS VALLEY COMMUNITY COLLEGE

## COURSE OUTLINE

**DIVISION: Workforce Development**

**COURSE: EMS 1203 Advanced Cardiovascular Life Support**

Date: Fall 2022

Credit Hours: 1

*Complete all that apply or mark "None" where appropriate:*

Prerequisite(s): Admission to the Paramedic program.

Enrollment by assessment or other measure?  Yes  No

If yes, please describe:

Corequisite(s): EMS 2240

Pre- or Corequisite(s): None

Consent of Instructor:  Yes  No

Delivery Method:  **Lecture**      **1 Contact Hours** (1 contact = 1 credit hour)  
 **Seminar**      **0 Contact Hours** (1 contact = 1 credit hour)  
 **Lab**      **0 Contact Hours** (2-3 contact = 1 credit hour)  
 **Clinical**      **0 Contact Hours** (3 contact = 1 credit hour)  
 **Online**  
 **Blended**  
 **Virtual Class Meeting (VCM)**

Offered:  **Fall**     **Spring**     **Summer**

### **CATALOG DESCRIPTION and IAI NUMBER (if applicable):**

The ACLS Provider course is designed for healthcare providers who either direct or participate in the management of cardiopulmonary arrest or other cardiovascular emergencies. Through didactic instruction and active participation in simulated cases, students will enhance their skills in the recognition and intervention of cardiopulmonary arrest, immediate post-cardiac arrest, acute arrhythmia, stroke, and acute coronary syndromes (ACS). The goal of the ACLS provider course is to improve outcomes for adult

patients of cardiac and other cardiopulmonary emergencies through early recognition and intervention by high-performance teams.

### **ACCREDITATION STATEMENTS AND COURSE NOTES:**

The goal of the EMS program is to prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.

### **COURSE TOPICS AND CONTENT REQUIREMENTS:**

- I. Basic life support skills, including effective chest compressions, use of a bag-mask device, and use of an AED
  - a. High-Quality BLS skills station
  - b. Cardiac Arrest learning station
- II. Recognition and early management of respiratory and cardiac arrest
  - a. Airway management learning station
  - b. Cardiac arrest learning station
- III. Recognition and early management of peri-arrest conditions
  - a. Bradycardia learning station
  - b. Tachycardia learning station
- IV. Related pharmacology
- V. Management of ACS and stroke
- VI. Effective communication as a member and leader of a resuscitation team

### **INSTRUCTIONAL METHODS:**

Video Demonstration  
Discussion  
Hands-on practice

### **EVALUATION OF STUDENT ACHIEVEMENT:**

To receive a course completion card, students must attend and participate in all lessons of the course, pass all skills test, and pass the written exam.

Written exam – The exam measures the mastery of cognitive skills. Each student must score at least 84% on the written exam to meet course completion requirements.

Skills tests will be evaluated using criteria and skill sheets from the American Heart Association. Students must successfully pass these skills tests:

- High-Quality BLS Skills Test
- Bag-Mask Ventilation Skills Test with OPA/NPA insertion
- Learning station competencies
- Megacode Test

### **INSTRUCTIONAL MATERIALS:**

#### **Textbooks**

American Heart Association. (2020). *Advanced Cardiovascular Life Support Provider*.

#### **Resources**

None

## **LEARNING OUTCOMES AND GOALS:**

### **Institutional Learning Outcomes**

- 1) Communication – to communicate effectively;
- 2) Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion;
- 3) Social Consciousness – to understand what it means to be a socially conscious person, locally and globally;
- 4) Responsibility – to recognize how personal choices affect self and society.

### **Course Outcomes and Competencies**

1. Identify and initiate early management of periarrest conditions that may result in cardiac arrest or complicate resuscitation outcome.
2. Demonstrate proficiency in providing BLS care, including prioritizing chest compressions and integrating automated external defibrillator (AED) use.
3. Identify and manage respiratory arrest.
4. Identify and manage cardiac arrest and other arrhythmias until termination of resuscitation or transfer of care, including immediate post-cardiac arrest care.
5. Identify and initiate early management of ACS, including appropriate disposition.
6. Identify and initiate early management of stroke, including appropriate disposition.
7. Demonstrate effective communication as a member or leader of a resuscitation team and identify the impact of team dynamics on overall team performance