

EMC 116 Course Outline as of Fall 2021**CATALOG INFORMATION**

Dept and Nbr: EMC 116 Title: ADV CARDIAC LIFE SUP
 Full Title: Advanced Cardiac Life Support
 Last Reviewed: 1/25/2021

| Units | | Course Hours per Week | | Nbr of Weeks | Course Hours Total | |
|---------|------|-----------------------|-------|--------------|--------------------|-------|
| Maximum | 0.50 | Lecture Scheduled | 5.25 | 1 | Lecture Scheduled | 5.25 |
| Minimum | 0.50 | Lab Scheduled | 10.75 | 1 | Lab Scheduled | 10.75 |
| | | Contact DHR | 0 | | Contact DHR | 0 |
| | | Contact Total | 16.00 | | Contact Total | 16.00 |
| | | Non-contact DHR | 0 | | Non-contact DHR | 0 |

Total Out of Class Hours: 10.50

Total Student Learning Hours: 26.50

Title 5 Category: AA Degree Applicable
 Grading: P/NP Only
 Repeatability: 21 - Legally Mandated Repetition
 Also Listed As:
 Formerly: EMC 275.2

Catalog Description:

Designed for nursing, medical, para-medical or allied health personnel whose daily occupation demands proficiency and certification in the knowledge of advance cardiac life support skills. Student is able to analyze life threatening cardiac emergencies and apply advanced principles of cardiac and respiratory anatomy and physiology. Curriculum adheres to the American Heart Association Advance Cardiac Life Support standards.

Prerequisites/Corequisites:**Recommended Preparation:****Limits on Enrollment:**

Course adheres to the American Heart Association standards that participants are physicians, RN's or paramedics actively involved or required by law to be certified as advanced life support providers.

Schedule of Classes Information:

Description: Designed for nursing, medical, para-medical or allied health personnel whose daily occupation demands proficiency and certification in the knowledge of advance cardiac life

support skills. Student is able to analyze life threatening cardiac emergencies and apply advanced principles of cardiac and respiratory anatomy and physiology. Curriculum adheres to the American Heart Association Advance Cardiac Life Support standards. (P/NP Only)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment: Course adheres to the American Heart Association standards that participants are physicians, RN's or paramedics actively involved or required by law to be certified as advanced life support providers.

Transfer Credit:

Repeatability: Legally Mandated Repetition

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

| | | | |
|----------------------|----------------------|-------------------|------------------|
| AS Degree: | Area | Effective: | Inactive: |
| CSU GE: | Transfer Area | Effective: | Inactive: |
| IGETC: | Transfer Area | Effective: | Inactive: |
| CSU Transfer: | Effective: | Inactive: | |
| UC Transfer: | Effective: | Inactive: | |

CID:

Certificate/Major Applicable:

Not Certificate/Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Interpret current cardiology science and practice as it relates to advanced cardiac life support (ACLS) in pre-hospital and hospital environment.
2. Demonstrate knowledge and skills required for certification by American Heart Association in ACLS.

Objectives:

At the conclusion of this course, the student should be able to:

1. Describe the application of basic life support measures.
2. Identify and discuss life threatening arrhythmias.
3. List the major causes of cardio-pulmonary arrest
4. Demonstrate knowledge of current drug therapy involved in the definitive treatment of cardio-pulmonary arrest.
5. Demonstrate the use of a cardiac monitor and defibrillating equipment.
6. Demonstrate the management of an emergency cardio-pulmonary arrest, stabilization, and the procedure in transporting a patient to the critical care unit.
7. Discuss any changes in the medical legal implications of resuscitative procedure.
8. Discuss the interpersonal problems encountered during a resuscitative procedure among professional staff.
9. Describe and demonstrate the use of adjunctive equipment for airway and ventilatory maintenance.

Topics and Scope:

- I. Review Basic Life Support Measures
 - A. Cardio pulmonary resuscitation
 - B. Automatic early defibrillation
 - C. Airway
2. Airway Management (Lab)
 - A. Oral and nasal adjuncts
 - B. Assisted ventilation
 - C. Endotracheal intubation
3. Arrhythmia (Lab)
 - A. Atrial
 - B. Ventricular
 - C. Blocks
4. Cardio Pulmonary Arrest (Lab)
5. Cardiac Resuscitation (Lab)
 - A. Monitor/defibrillation
 - B. Medical legal
 - C. Code management
6. Drug Therapy
 - A. Pharmacology
 - B. Method of delivery

All topics are covered in the lecture and lab portions of the course

Assignment:

Lab related assignments

1. Code team participation resuscitation protocol
2. Identify 7 EKG rhythms
3. Comprehensive multiple choice exam

Lecture related assignments

1. Reading from the Advanced Cardiac Life Support Text before attending class (8-12 hours)
2. Memorize 7 resuscitation scenarios

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

| | |
|--|----------------------------------|
| None | Problem solving 0 - 0% |
| Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams. | |
| Class performances, Performance exams, code team participation | Skill Demonstrations 20 - 50% |
| Exams: All forms of formal testing, other than skill performance exams. | |
| Multiple choice exam, identify EKG | Exams 40 - 75% |
| Other: Includes any assessment tools that do not logically fit into the above categories. | |
| Resuscitation protocol | Other Category 5 - 10% |

Representative Textbooks and Materials:
 ACLS Provider Manual. American Heart Assn. 2020 (classic)
 Handbook of Emergency Cardiovascular Care for HealthCare Providers. American Heart Assn. 2020 (classic)
 Instructor prepared materials