

NorthWest Arkansas Community College Standard Course Outline

EMTP 1212 Emergency Cardiac Care I

Prerequisite: Admission into the paramedic program and enrolled as a student at NWACC

Course Description: Students will learn ACLS algorithms utilizing American Heart Association Standards and National Registry Testing. Students must demonstrate competent skills in class.

Target Audience & Transferability:

This course is for paramedic students only. Students must be actively enrolled in the paramedic program in order to be eligible to take this course. This course does not typically transfer.

Credit Hours: 2 credit hour

Instructional Material: Advanced Cardiac Life Support by American Heart Association
Paramedic Textbook by Mosby
Workbook to Paramedic Textbook by Mosby

Course Objectives: Upon completion of course, the paramedic student will be able to:

1. Manage 10 core Cases through small-group case-based teaching.
2. Learn and practice key skills in BLS and ACLS
3. Manage first ten minutes of sudden, witnessed ventricular fibrillation.
4. Know and perform the primary ABCD survey
5. Know and perform a secondary ABCD survey
6. Know and perform the ACLS algorithms as stated in the 10 core cases.
7. Know and apply the “Periarrest” Algorithms
8. Know and apply how to run the code – directing others during a resuscitation attempt
9. Airway maintenance: Provide supplemental oxygen, open airway, maintain the open airway, recognize airway obstruction, ventilate patient, provide advanced ventilation, provide definitive airway control, provide primary and secondary confirmation of tracheal tube placement.
10. Provide transcutaneous pacing operate and AED, and a conventional monitor/defibrillator to safely and effectively deliver shocks to Ventricular fibrillation and other rhythms.
11. Effectively perform synchronized electrical cardioversion for unstable V-Tach with a conventional monitor/defibrillator.
12. Safely and effectively use stand-alone transcutaneous pacemakers and the pacing mode in conventional defibrillators to pace a patient.
13. Identify the characteristics of normal sinus rhythm.

14. When shown and ECG tracing, identify the rhythm, site of origin, possible causes, clinical significance, and prehospital management that is indicated.
15. Describe prehospital assessment and management of patients with selected cardiovascular disorders based on knowledge of the Pathophysiology of the illness.
16. List indications, contraindications, and prehospital considerations when using selected cardiac interventions, including basic life support, monitor-defibrillators, defibrillation, implantable cardio-defibrillators, synchronized cardioversion, and transcutaneous cardiac pacing.
17. List indication, contraindications, dose, and mechanism of action for pharmacological agents used in the management of cardiovascular disorders.
18. Identify appropriate actions that should be taken in the pre-hospital setting to terminate resuscitation.