

# NorthWest Arkansas Community College

## Standard Course Outline / Division of Health

### Course Number and Name

EMTA 1102, Cardiac Dysrhythmias  
(formally EMTA 1001)

### Course Description

An introductory course focusing on the development of essential knowledge and skills required of health care providers in recognition, interpretation, and understanding of basic cardiac dysrhythmias. Particular emphasis will consider recognition of those dysrhythmias that represent a potential life threatening event for the patient.

### Prerequisites

None

### Target Audience

For those interested in a health care profession and/or interested in learning to read heart monitors

### Credit Hours

2 credit hour

The student will need to obtain transfer information from the institution he/she is transferring to in order to determine transferability.

### Student Learning Outcomes

Upon successful completion of course the student will be able to:

1. Describe the basic electrophysiological path of impulse conduction in the heart
2. Identify the key anatomical tissue along the cardiac electrophysiological pathway
3. Correctly label basic cardiac anatomical structures and vasculature
4. Understand automaticity and conductivity of cardiac cells
5. Describe the process of depolarization and repolarization of cardiac cells
6. Recognize basic cardiac wave forms as represented in a monitoring lead
7. Develop an effective system of step-wise dysrhythmia interpretation.
8. Accurately interpret common cardiac dysrhythmias as seen in adult patients
9. Demonstrate correct use of both automatic and manual cardiac defibrillators
10. Explain common signs and symptoms typically present in patients experiencing myocardial injury or ischemia

### Topics

1. A & P of the Heart
2. Basic Electrophysiology
3. Sinus Rhythm
4. Atrial Rhythm

5. Junctional Rhythms
6. Ventricular Rhythms
7. Atrioventricular Blocks
8. Pacemaker Rhythms
9. 12 Lead

**Forms of Assessment**

Written Exams and dynamic exams using heart simulator.