

**STATUS:** A

**COMMON COURSE NUMBER:** CVT 1501

**COURSE TITLE:** Basic Electrocardiography

**CREDIT HOURS:** 2

**CONTACT HOURS BREAKDOWN:**

Lecture/Discussion 32.0

Lab \_\_\_\_\_

Other \_\_\_\_\_

Contact Hours/Week \_\_\_\_\_

**CATALOG COURSE DESCRIPTION:**

This course will discuss a brief history of electrocardiography, the role of the technician, the care and use of the electrographic (EKG) machine, positioning the patient, electrical hazards, normal EKG pattern, identifying and reporting abnormal EKG patterns and mounting the EKG.

Prerequisite: CAE 0216, CAE0062 or Instructor Approval

Corequisite: None

General Education Requirements - Associate of Arts Degree, meets Area(s): none

General Education Requirements - Associate in Science Degree, meets Area(s): none

**UNIT TITLES:**

1. Verbal & Written Communication
2. Basic Math Skills
3. Basic Science Skills
4. Human Anatomy & Physiology
5. Medical Terminology
6. Instrument Modalities
7. Patient Care Techniques
8. Monitoring & Test Results
9. Cardiovascular Drugs
10. Electrocardiograph Rhythms

**LAST REVIEW** Academic Year 2004-2005 **NEXT REVIEW** Academic Year 2009-2010

*Interim Revision Dates:*

I. **Course Objectives:**

**This course will be a basic component to be offered healthcare professionals who need to be cross trained to meet the requirements for continued employment.**

II. **Units**

**Unit 1. VERBAL & WRITTEN SKILLS**

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Use appropriate verbal and written communication techniques.

## **Unit 2 BASIC MATH SKILLS**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should to

- 2.1 Apply basic math skills as they relate to graph, charts and tables.

## **Unit 3. BASIC SCIENCE SKILLS**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Apply basic science skills and draw conclusion.

## **Unit 4. HUMAN ANATOMY & PHYSIOLOGY**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Discuss human anatomy and physiology, the body system and their functions.

## **Unit 5. MEDICAL TERMINOLOGY**

Upon successful completion of this unit, the students should be able to

- 5.1 Identify components of medical terms.

## **Unit 6. INSTRUMENT MODALITIES**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to

6.1 Use medical modalities and perform a 12 lead EKG.

## **Unit 7. PATIENT CARE TECHNIQUES**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to

7.1 Prepare the patient physically and mentally for cardiovascular testing.

## **Unit 8. Monitoring & Test Results**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to

8.1 Interpret and measure waves; segments, complexes, rates and intervals.

## **Unit 9. Cardiovascular Drugs**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to

9.1 Describe actions and adverse effects of common cardiovascular drugs.

## **Unit 10.     Electrocardiograph Rhythms**

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to

**10.1** Recognize and describe normal and basic abnormal rhythm