

SOUTHEAST COMMUNITY COLLEGE
HEALTH SCIENCES DIVISION
HEALTHCARE SERVICES
Revision Date: 11/2024

I. CATALOG DESCRIPTION

Course Number:	HLTH 1080
Course Title:	Electrocardiograph (EKG) Technician
Prerequisite(s):	None
Catalog Description:	The Electrocardiograph (EKG) Technician performs electrocardiographs according to physician's orders and protocols. This course prepares students for the tasks and responsibilities that include: equipment operation, maintaining data reports, performing EKG procedures to assess heart rhythm and rate in patients.
Credit Hours:	3
Class Hours:	38
Lab Hours:	23
Total Contact Hours:	61

II. COURSE OBJECTIVES: *Course will:*

1. Define the role of the Electrocardiograph Technician.
2. Describe the state requirements related to EKG practice.
3. Describe the legal and ethical issues related to EKG practices.
4. Demonstrate effective customer service skills.
5. Maintain a safe environment and infection control.
6. Describe the anatomy and physiology of the cardiovascular system.
7. Review basic electrophysiology (ie: four characteristics of cardiac cells, identify nodes, measure heart rate, review EKG waveforms and interpretations.)

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *The student will be able to:*

1. Demonstrate proficiency in performing EKGs.
2. Demonstrate applications of patient record keeping principles.
3. Demonstrate proficiency at basic EKG interpretation.
4. Recognize interference, loose leads, and other malfunctions.
5. Recognize responding/reporting to emergencies.

B. GENERAL EDUCATION LEARNING OUTCOMES

1. **GELO 3: Critical Thinking and Problem Solving**
Outcome: Collect, identify, interpret and analyze data.

IV. CONTENT/TOPICAL OUTLINE *(course outline may provide more detailed information)*

A. UNITS

1. Coronary Anatomy and Physiology
2. EKG Procedure

3. EKG Interpretation
4. Advanced EKG
5. EKG Technician Roles and Responsibilities
6. Infection Prevention and Control
7. Emergency Preparedness, Recognition, and Response

V. INSTRUCTIONAL MATERIALS REQUIRED

A. Required Text(s):

EKG Textbook: Theory & Practical Fundamentals, OPRET, Newest Edition: Paperback

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. Lecture
2. Demonstration
3. Handout Materials
4. Class Participation/Presentations/Activities
5. Case Studies and Group Work
6. Guest Presenters
7. Internet Resources
8. Power Point slides and videos
9. Pretests and Assignments
10. Engaged Learning Educational (ELE) activities may be used to augment some of the units
11. Skill Practice and Check-offs
12. Technology Enhanced Lecture

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of assignments, quizzes, exams, projects, skill checkoffs, etc.

B. For grading expectations please see the course information document.

SCC STANDARD GRADING SCALE POLICY:

A+	95-100	C+	75-79
A	90-94	C	70-74
B+	85-89	D+	65-69
B	80-84	D	60-64
		F	Below 60

VIII. SPECIFIC COURSE REQUIREMENTS

A. ATTENDANCE

Attendance is crucial to the success of this course. Any class missed could mean valuable missed information, which is difficult to obtain. Please notify the instructor of any pending absences or if you will be late.

B. To be awarded credit towards a certificate in Healthcare Services, the student must receive a "C" or higher in the course.

Please see the course information document for course policies related to grading, expectations, assignments, assessments, and participation.