

HSLC-114-BASIC ECG - 1 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course is an introduction to basic electrophysiology. It presents the theory and techniques of EKG testing. It also includes a study on the most common cardiac arrhythmias.
Offered: Fall, Spring Every Year

Prerequisites: RDNG 096 or appropriate Reading Accuplacer Score

Semester Offered: Fall & Spring

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Demonstrate knowledge of the Anatomy and Physiology of the Heart.
2. Trace the electrical conduction system of the heart.
3. Demonstrate ability to place ECG electrodes for 3 lead and 12 lead.

Module Learning Outcomes

Upon successful completion of this module, the student will be able to....

- **Module 1:**
 - Diagram how blood flows through the heart.
 - Label the parts of the heart.
- **Module 2:**
 - Trace the electrical conduction system of the heart
 - Describe what is going on during different phases of conduction.
- **Module 3:**
 - Define ECG terms.
 - List steps for reading an ECG
- **Module 4:**
 - State the parts of an ECG machine
 - Explain how to operate the machine
- **Module 5:**
 - Recognize the parts of the ECG on paper
 - Identify the time that corresponds with each block on the paper.
- **Module 6:**
 - Execute an ECG.
 - Identify problems that can happen during execution of ECG.
- **Module 7:**
 - Classify lethal and non-lethal rhythms.
 - Interpret a basic ECG.
- **Module 8:**
 - Demonstrate ability to perform a 12 lead ECG
 - Practice interpreting ECG's

Grading Equivalents:

A = 1250 pts – 1125 pts

B = 1124 pts – 1000 pts

C = 999 pts – 875 pts

D = 874 pts – 750 pts

F = 749 and below

Grading (Points Scale)

Assignment	Number of Assignments	Total Points
Diagrams	3 @ 50points each	150
Poster	1 @ 100 points	100
Pamphlet (handout)	1 @ 100 points	100
Power point	1 @ 100 points	100
Mini Lecture	1 @ 100 points	100
Paper	1 @ 150 points	150
Quizzes	3 @ 33.3 points each	100
Peer Reviews	5 @ 20 points each	100
Homework	15 @ 10 points each	150
Competency v offs	3 @ 33.3 points each	100
Final exam (open notes)	1 @ 100 points	100