



Course Prefix/Number/Title: AH 257 ECG/EKG Interpretation

Number of Credits: 2

Course Description:

This course is designed for students who want to learn the basic ECG skills of measuring, recognizing, and interpreting simple cardiac rhythms. Topics include correct lead placement, troubleshooting poor tracings, and recognition and measurement of various ECG waves.

Pre-/Co-requisites: AH 137

Course Objectives: To teach basic skills needed to obtain an ECG and identify cardiac rhythms.

Instructor: Erin Williams, MSN, RN

Office: Online

Office Hours: Online

Phone: (701)228-5444

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Lecture/Lab Schedule: Online course

Textbook(s): Jones, S. (2020)., *ECG mastery:Improving your ECG interpretation skills*. (2nd ed.). Philadelphia, PA: F.A. Davis ISBN: 978-0-8036-7693-0

Course Requirements:

- The student is expected to read the assigned chapters, as well as any lecture notes and slides posted by the instructor.
- The student is expected to practice reading all ECG rhythm strips and differentiate between a normal rhythm and an irregular rhythm on a strip (NOT diagnosing).
- Students are expected to know how to properly hook up an ECG machine and correct placement of EKG pads.

Tentative Course Outline:

- Anatomy of the heart
- Coronary Arteries
- Blood flow through the heart (systole/diastole)
- Electrical conduction system of the heart

- Explanation of a rhythm strip
- Identification of waves on ECG and what electrical activity in the heart they represent
- Types of leads, lead placement, and troubleshooting
- Calculation of heart rate from ECG
- Identification of cardiac rhythms
- Identification of pacemaker spikes on ECG
- Identification of artifact and potential causes
- Identification of signs of ischemia, infarction, and injury represented on an ECG

Grading Scale

A (90% - 100%)

B (80% - 89%)

C (70% - 79%)

D (60% - 69%)

F (0% - 59%)

General Education Competency(ies) and Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):

Employ industry-specific skills in preparation for workplace readiness.

Relationship to Campus Focus:

Students will demonstrate knowledge and application of technology in relation to ECG interpretation.

Classroom Policies:

- Students have 8 weeks to complete the course.
- Each student is responsible to keep track of their progress through the course.
- Completion of assignments is mandatory. All assignments must be submitted by the listed due date or a grade of zero will be given for the uncompleted assignment(s).
- The instructor reserves the right to post additional assignments if deemed necessary for learning.

Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the

Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.