

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: ALHT 112

Credit Hours: 4

Course Title: Basic ECG

Course Prerequisites: Previous or current enrollment in ALHT 109 and BLGY 110

Textbook: Jones, S.; ECG Notes: Interpretation and Management Guide (optional)

Course Description:

A course designed to provide students with skills related to arrhythmia recognition and monitoring. The laboratory is integrated with the lecture and will provide practicing interpretation with workbook ECGs, actual ECGs and telemetry strips from hospital settings, and hands-on application of cardiac monitoring equipment.

Learning Outcomes:

At the end of the course, the student will

- A. apply knowledge of cardiovascular anatomy and physiology to understand the procedures of noninvasive cardiac monitoring;
- B. apply concepts of pathophysiology to the clinical implications of arrhythmias; and
- C. demonstrate and apply the skills and knowledge of monitoring equipment used to detect cardiac electrical activity.

To achieve the learning outcomes, the student will

- 1. describe the location and structures of the heart.(A)
- 2. summarize the electrical conduction system of the heart.(A)
- 3. distinguish the differences between the electrical and mechanical functions of the heart.(A)
- 4. summarize how nerve impulses are generated and cardiac muscles contract.(A)
- 5. use the steps of rhythm analysis to differentiate arrhythmias that originate in the SA node, atrium, AV junction, and the ventricles.(A,B)
- 6. detect pacemaker rhythms and malfunction.(B)
- 7. analyze 12-lead electrocardiograms.(A,B, C)
- 8. identify arrhythmia significance and clinical picture.(A,B,C)
- 9. operate 12-lead ECG machines.(C)
- 10. demonstrate the anatomical location of leads and electrode placement in the 12-lead ECG, portable monitors, and telemetry monitors.(A,C)

Course Requirements: To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- minimum 70% on cardiac rhythm recognition test (final exam)
- satisfactorily perform a 12-lead ECG

Course Grading Scale:

- A- 90% or more of the total possible points and a minimum of 70% on the cardiac rhythm recognition test and satisfactorily perform a 12-lead ECG
- B- 80% or more of the total possible and a minimum of 70% on the cardiac rhythm recognition test and satisfactorily perform a 12-lead ECG
- C- 70% or more of the total possible and a minimum of 70% on the cardiac rhythm recognition test and satisfactorily perform a 12-lead ECG
- D- 60% or more of the total possible points and a minimum of 70% on the cardiac rhythm recognition test and satisfactorily perform a 12-lead ECG
- E- less than 60% of the total possible points or less than 70% on the cardiac rhythm recognition test or failure to satisfactorily perform a 12-lead ECG

Attendance Policy: The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, certification exams and/or clinical fees.

Nondiscrimination Statement

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COORDINATOR FOR SECTION 504 AND ADA

Angie Cao, Student and Disability Services Specialist

Disability Services, F254, 6220 East Texas Street, Bossier City, LA 71111

318-678-6511

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Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator
Teri Bashara, Director of Human Resources
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Phone: 318-678-6056
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Reviewed by Wendy McGee/ April 2019