

COURSE OUTLINE
CARD-231
Applied Clinical Practicum
3 Semester Hours

HOWARD COMMUNITY COLLEGE

Description

Clinical experience in procedures performed in invasive cardiology. This includes using the equipment, performing tests, and giving patient care as it relates to the cardiovascular area. Advanced Cardiac Life Support (ACLS) certification is a required outcome of this course. Attendance for the RCIS Review Course is mandatory for the spring session. Prerequisite: CARD-220 and 221. (32 clinical hours weekly)

Overall Course Objectives

1. Perform the functions related to the scrub technologist in a left and right heart catheterization, including preparing and draping the patient.
2. Observe and assist the staff technologist during fluoroscopy.
3. Calibrate and operate the hemodynamic monitoring equipment during catheterization.
4. Explain all phases of stocking the lab with the medical equipment used in the catheterization, including catheter supplies, disposable items and medications.
5. Collect and analyze blood gas samples of oxygenation during right heart catheterization.
6. Observe and understand how to effectively set-up and monitor an aortic balloon pump.
7. Perform thermodilution cardiac outputs.
8. List and describe what and why each type of contrast media is used.
9. Describe the role of the CVT in the cath lab for this clinical rotation.
10. Describe the procedure for getting immediate response from the emergency hospital team.

Major Topics

1. Clinical practicum to practice all prior skills learned in class and prior clinical rotations.
2. Review diagnostic and interventional procedures.
3. Review aortic balloon pump.
4. Review cardiac output methods.
5. Practice hemodynamic monitoring techniques.
6. Practice circulating techniques.
7. Practice scrub techniques.

Course Requirements

Grading procedures will be determined by the individual faculty member but will include the following:

Final grade will be calculated on the basis of class presentation and clinical evaluation.
Writing specific outline to reflect the patient presentation.

Other Course Information

This is a Cardiovascular Core Course.

Successful completion of this course requires the student maintain a “C” grade or better to remain in this program.