

**COURSE OUTLINE**  
**CARD-250**  
**Advanced Interventional Radiology Procedures**  
3 Semester Hours

**HOWARD COMMUNITY COLLEGE**

**Description**

The anatomy and procedural aspects of performing vascular interventional studies of the head, trunk and extremities are examined. Patient preparation, imaging techniques and equipment selection are outlined. In the clinical setting students will apply theory. This course is for students currently employed in an Interventional Radiology setting. (2 hours lecture, 3 hours lab)

**Course Objectives**

1. Identify indications, contraindications of all interventional radiology procedures.
2. Describe the various methods of approach for angiography of the neck, head and brain.
3. Describe the procedure for renal and adrenal angiography.
4. Describe the procedure for selective abdominal angiography.
5. Describe various interventional procedures including canal filter placement, foreign body retrieval, and pressure measurements.
6. Describe the nonsurgical revascularization techniques for Peripheral vascular disease.
7. Understand the nonsurgical management of the patient with Gastrointestinal Bleeding.
8. Describe the management of benign Biliary structures.
9. Identify the role of Angiography in diagnosing and treating aortic aneurysms.
10. Describe the appropriate intervention for Budd Chiari Syndrome.

**Major Topics**

1. Thoracic Aortography
2. Abdominal Aortography
3. Femoral Arteriography
4. Renal Arteriography
5. Selective Visceral Arteriogram

6. Upper Extremity Arteriogram
7. Upper Extremity Venography/Fistulography
8. Pulmonary Angiography
9. Intracranial Angiography
10. Biliary/Urinary Interventions

### **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 exams, quizzes, clinicals and class participation.

Writing

Specific writing assignments will be determined by the individual faculty member but will include at least 500 words of formal writing.

### **Other Course Information**

This is a Cardiovascular Major Course.

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