

MASTER SYLLABUS

COURSE NO., HOURS, AND TITLE:

RAD 417 (4 Hrs.) – Imaging Procedures

COURSE DESCRIPTION:

Quality control is covered along with contrast agents, pharmaceuticals, cardiac-interventional procedures and equipment. The cardiac procedures reviewed are cardiac output calculations, hemoximetry, shunt detection, pulmonary angiography, hemodynamics, valve measurement, right and left ventriculography, coronary angiography, coronary artery bypass graft angiography, aortography and ventricular volume measurement/ejection fraction (EF). Prerequisite: concurrent enrollment in RAD 407, RAD 427 and RAD 437. Restricted to Cardiac-Interventional Radiography students only.

PREREQUISITES TO:

RAD 447, RAD 457, RAD 467 & RAD 477

COURSE OBJECTIVES:

1. Demonstrate an understanding of quality control for patient and professional safety
2. Demonstrate an understanding pharmaceutical agents used
3. Demonstrate an understanding of cardiac-interventional procedures performed
4. Demonstrate an understanding of equipment and instrumentation used in the field

TOPICAL OUTLINE:

I	Contrast Agents	15%
II	Pharmaceuticals	15%
III	Equipment and Instrumentation	15%
IV	Cardiac-Interventional Procedures	55%

TEXTBOOKS:

Required:

Kaufman, J. A., & Lee, M. J. (2014). *Vascular and interventional radiology*. Philadelphia: Elsevier/Saunders.