

RAD 111 RADIOGRAPHY SEMINAR V

DIAGNOSTIC IMAGING MODALITIES

RAD 111

INSTRUCTOR: Program Faculty
HOURS: Tues. and Thurs. 8:30 - 11:30
TEXT: "Radiologic Sciences", Bushong
PREREQUISITE: RAD 108, RAD 110
SEMESTER SCHEDULE: Spring Semester of the second year

COURSE DESCRIPTION:

Students will investigate special imaging modalities within the field of Radiography. These areas will include, RI, CT, Nuclear Medicine, Ultrasound, mammography, Radiation Therapy, and Special procedures. Students will be rotating through these areas in RAD 112 Clinical V, which will enforce the theoretical education.

We will further investigate the quality assurance of a Radiography Department. The process of how to keep radiographic development/fixing and processing at a constant level. The process of keeping Radiographic rooms from varying in exposure and technical aspects.

Diagnostic imaging is sometimes viewed cross-sectionally, i.e., CT, MRI. It is important for a student to be able to identify body organs and structures when presented in cross-section. Human anatomy will be studied using cross sectional images.

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

- a. Identify (possible) areas in which the student wishes to specialize in the future.
- b. Identify the different specialized modality areas and the basic theoretical/practical uses in the field of imaging.
- c. Identify the QA aspects of radiographic film processing, i.e., developing, fixing, temperatures, times, etc.
- d. identify how QA checks, i.e., spinning top tests, step wedge tests, etc...., help keep radiographic machines from varying and affecting films.
- e. Take apart a processor and identify the parts and possible problem areas.
- f. be able to identify anatomic structures/organs on cross-sectional films.
- g. identify where organs are in relation to each other and the human body.

METHODS:

Tests, lectures, class discussion, film viewing, guest lecturers from specialty areas.

EVALUATION SYSTEM:

There will be four tests worth 25% each. Passing for this course is 75%
for continuation in the program