

RAD 212 – SPECIAL PROCEDURES SUMMER 2014

INSTRUCTOR: Steven C. Jensen, Ph.D.

CONTACT INFORMATION: **Phone - (618) 559-2004**
 Email- sjensen@siu.edu

COURSE DESCRIPTION: Special procedures include the study of contrast producing agents which are used to visualize specific parts of the body. Radiographic technique utilized in this type of imaging is highly specialized and will be studied in depth. Areas of study may include Angiography, Computed Tomography, Magnetic Resonance Imaging, Ultrasound and Radiation Therapy.

PREREQUISITE: RAD 222 or consent

TEXTBOOKS:

Required:

There are no required texts for RAD 212. Students will be provided course materials as needed.

Supplemental references:

Bushong, S.C. (2012). Radiologic science for radiologic technologists: physics, biology, and protection. St. Louis: Mosby-Year Book, Inc.

Frank, E.D., Long, B.W. and Smith, B.J. (2012). Merrill's atlas of radiographic positions and radiologic procedures (12th ed) Volume 2&3. St. Louis: Mosby-Year Book, Inc.

COURSE OBJECTIVES:

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

1. Identify the functions and restrictions of the contrast media used in special procedures.
2. Demonstrate the concepts of sterile technique.
3. Given a line drawing or radiograph from a special procedure exam, identify the demonstrated anatomy.
4. Discuss the medical-legal aspects of special procedures.
5. Discuss the protocols for the various special procedures discussed in class.

ATTENDANCE:

Two percent of total course grade will be deducted for every class missed. Ten minutes late to class without instructor approval counts as an absence.

MEANS OF STUDENT EVALUATION:

Grades will be determined by:

1. Test Performance.....70%
2. Quizzes/Homework.....30%
3. Attendance.....(2% total grade reduction for each class missed without instructor approval).

GRADING SCALE:

93-100 = A
85-92 = B
77-84 = C
70-76 = D
0 -69 = F

Topical List, RAD212

General

Sterile Technique
Aortography
Venography
Arthrography
Myelography
Hysterosalpingography
Cholecystography
Pulmonary Angiography
Cardiac Angiography
Splenic Angiography
Mesenteric Angiography
Iliac Angiography
Cerebral Angiography
Interventional Procedures Generally
Stenting Specifically
Angioplasty Specifically
Thrombosis Specifically

MRI

Physics
Brain
Spine
Upper Extremity
Lower Extremity

CT

Physics
Chest
Abdomen
Pelvis
Cardiac

Ultrasound

Physics
Abdomen
OB/Gyn

Radiation Therapy

Physics

Dosimetry

Treatment