

MASTER SYLLABUS

COURSE NUMBER AND TITLE:

RAD 232-3 Selected Radiography Systems

COURSE DESCRIPTION:

This course is designed to instruct the student in the anatomy of the skull, facial bones, paranasal sinuses, mandible, digestive system, urinary system, biliary system, and human reproductive systems. Routine imaging protocols common to most health facilities will be described. Particular emphasis will be placed on radiographic imaging of the trauma patient. This course must be taken concurrently with RAD 232L. If RAD 232 is dropped then RAD 232L must be dropped.

All Radiography students must pass each of their Radiologic Science courses (RAD) with a grade of “C” or better (the minimum requirement) in order to satisfy Program requirements, and stay in the Program.

Any Radiography student that does not meet the minimum course requirement (a course grade of “C” or better) will not be allowed to continue in the Program. The student is allowed to re-apply to the Program the following year.

COURSE OBJECTIVES:

1. Apply the principles of radiation protection to the trauma patient
2. Apply the principles and concepts of skull imaging protocols.
3. Define and identify skull topographic landmarks.
4. Apply the principles and concepts of paranasal sinuses imaging protocols.
5. Apply the principles and concepts of mandible imaging protocols.
6. Discuss the principles and concepts of digestive system, and biliary system imaging.
7. Discuss the principles and concepts of the urinary system and reproductive system imaging.
8. Identify anatomy visualized on respective radiographs.

COURSE OUTLINE:

PERCENTAGE:

- | | |
|---|-----|
| 1. Skull and facial bone anatomy | 20% |
| 2. Skull positioning | 20% |
| 3. Paranasal sinus positioning | 20% |
| 4. Anatomy and positioning of the digestive, urinary, biliary, and reproductive systems | 20% |
| 5. Trauma radiography | 20% |

MEANS OF STUDENT EVALUATION:

Grading Scale

- 93 - 100 = A
85 - 92 = B
75 - 84 = C
0 - 74 = F

PREREQUISITE: C or better in RAD 222; Restricted to RADS majors.

Co-REQUISITE: RAD 232L and RAD 212

TEXTBOOKS:

1. Frank, E.D., Long, B.W., Smith, B.J. (Ed.). (2019). Merrill's Atlas of Radiographic Positions and Radiologic Procedures, 14th edition. Volumes 2 and 3.
2. Frank, E.D., Long, B.W. & Smith, B.J. (Ed.). (2019). Workbook for Merrill's Atlas of Radiographic Positions and Radiologic Procedures, 14th edition.

SUPPLEMENTAL TEXTBOOKS:

Ehrlich, R.A. and Coakes, D.M.. (2014). Patient care in radiography with an introduction to medical imaging, 8th edition.