

MASTER SYLLABUS

COURSE NUMBER AND TITLE:

RAD 102-3 Introduction to Radiologic Technology and Radiographic Technique

COURSE DESCRIPTION:

Designed to introduce the student to the medical radiography profession. Students will begin their study of medical terminology, professional behavior, ethics, theory of radiographic exposure, and radiation protection. Restricted to RADS majors.

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. State and define the variables that affect the quality of the radiographic image.
2. Define the principals involved with radiation protection and its relationship to this course.
3. Calculate an assortment of radiographic technique formulas.
4. Express professional behavior and ethics toward coworkers, supervisors, physicians and patients.

COURSE OUTLINE:

	PERCENTAGE:
1. Medical Terminology	15%
2. Professional behavior	10%
3. Ethics	10%
4. Theory of radiographic exposure	50%
5. Radiation protection	5%
6. Image processing: (CR & DR)	10%

MEANS OF STUDENT EVALUATION:

Grading Scale

93 - 100 =A

85 - 92 =B

75 - 84 =C

0 - 74 =F

PREREQUISITE: Acceptance into Radiologic Sciences Program

Co-REQUISITES: RAD 112, RAD 112L and RAD 202

TEXTBOOK:

1. Carlton, R.R. & Adler, A.M. (2019). Principles of Radiographic Imaging: An Art and a Science, 6th edition. Cengage Learning. ISBN-13: 978-1439058725.

2. Optional: Carlton, R.R. & Adler, A.M. (2019). Workbook for Carlton/Adler's Principles of Radiographic Imaging: An Art and a Science, 6th edition. Cengage Learning. ISBN-13: 978-1439058701.
3. Bushong, S.C. (2017). Radiologic Science for Technologists: Physics, Biology, and Protection (11th ed.). St. Louis, MO: Elsevier Science/Mosby, Inc.