



# Course Outcome Summary

Required Program Core Course

**RAD 115 – Principles of Rad Exposure**

## Course Information

Division	Health Sciences
Contact Hours	3
Theory	45
Lab Hours	0
Total Credits	3

## Prerequisites

RAD 100 – Introduction to Rad Tech  
RAD 110 – Radiation Physics  
RAD 113 – Radiation Biology

## Co-requisites

RAD 130 – Radiographic Positioning I  
RAD 213 – Radiation Protection

## Course Description

This course presents the prime factors in radiographic technique determination, and how these factors relate to radiographic image quality factors. Conversion methods for adjusting radiographic technique to maintain radiographic quality are studied. An overview of the different systems of radiographic techniques is presented, and students learn how to formulate a radiographic technique system. Also studied are radiation protection, mobile radiography, image intensification, tomography, and digital radiography.

**This course is a required core course for students pursuing an Associate of Applied Science - Radiography**

## Program Outcomes Addressed by this Course:

The successful completion of this course will assist students towards meeting the following program outcomes:

- A. demonstrate the knowledge and skills necessary for competency as an entry-level Radiologic Technologist/Radiographer by operating and manipulating radiographic equipment to produce high-quality images and by practicing safe patient care for a diverse population.
- B. apply critical thinking skills in their field by adapting to non-routine procedures and by identifying and troubleshooting issues with radiographic processes.

## Course Outcomes

In order to evidence success in this course, the students will be able to:

1. identify factors that affect radiographic image quality.  
*Applies to Program Outcome A*
2. evaluate radiographic images for density/image receptor exposure, contrast, detail, distortion, etc.  
*Applies to Program Outcome B*
3. describe basic principles of fluoroscopy, mobile radiography, and tomography.  
*Applies to Program Outcome A*
4. utilize calculations, graphs, charts, and histograms necessary for safe radiographic techniques and high-quality imaging.  
*Applies to Program Outcomes A & B*

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