



BAKER COLLEGE

STUDENT LEARNING OUTCOMES

RAD2220 Radiologic Science II
6 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Summarize biological effects of radiation exposure.
 - a. Identify cellular, molecular, and biological aspects of radiation exposure.
 - b. Analyze radiation energy transfer and effects.
 - c. Differentiate between types and sources of ionizing radiation.
 - d. Compare radiosensitivity and response.
 2. Analyze imaging equipment components and their functions.
 - a. Explore x-ray acquisition systems and associated errors.
 - b. Investigate data management and picture archival and communication systems.
 - c. Describe the features of image intensified and digital fluoroscopy systems.
 - d. Evaluate Images viewed on the digital display for appropriate quality.
 - e. Identify exposure latitude and quality assurance and maintenance concerns.
 3. Investigate quality assurance elements in imaging.
 - a. Evaluate image appearance standards and apply corrective adjustments.
 - b. Appraise the importance of quality control in imaging.
 - c. Explore exposure's relationship to brightness on the digital display and film density.
 - d. Formulate effective exposure factors.
 4. Summarize basic physics principles related to radiation.
 - a. Dissect structure of the atom.
 - b. Employ safe radiation practices.
 - c. Examine the nature of scatter and secondary radiation.
 - d. Summarize x-ray photons interaction with matter.
 - e. Categorize radiation units, detection, and measurement.
 - f. Discuss essential physics concepts as a foundation for understanding radiation.
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These SLOs are not approved for experiential credit.

Effective: Spring 2018