



BAKER COLLEGE

STUDENT LEARNING OUTCOMES

RAD1250 Radiation Safety
1 Semester Hour

Student Learning Outcomes and Enabling Objectives

1. Outline safety methods used to minimize patient exposure.
 - a. Identify effective dose limits for non-occupational radiation exposure.
 - b. Examine the technical factors used to produce quality diagnostic images with the lowest radiation exposure possible.
 - c. Appraise the legal and ethical radiation protection responsibilities of radiation workers.
 - d. Demonstrate how time, distance and shielding can be manipulated to keep radiation exposures to a minimum.
 - e. Describe the radiation protection features of the radiographic and fluoroscopic imaging systems.
 2. Explain the basis for occupational exposure limits.
 - a. Explain how the ALARA concept is utilized as it pertains to occupational exposure.
 - b. Explain the objectives of a radiation protection program and identify dose limits for occupational radiation exposure.
 - c. Identify dose equivalent limits for the embryo and fetus in occupationally exposed women.
 - d. Distinguish between primary and secondary radiation barriers.
 3. Differentiate methods of radiation exposure monitoring.
 - a. Describe the theory and operation of radiation detection devices.
 - b. Define radiation and differentiate applications of radioactivity units of measurement.
 - c. Classify units of radiation measurement.
 - d. Interpret personnel monitoring reports.
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Big Ideas

Big Ideas

- Minimizing Patient Exposure
 - Personnel Protection
 - Exposure Monitoring
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These SLOs are not (choose one) approved for experiential credit.

Effective: Fall 2017