South Central College
DA 1826  Radiology II
Course Outcome Summary

Course Information

Description
This course is a continuation of Radiology I. This in-depth course will cover the history of radiation, radiation physics, and differing radiation characteristics. The course will also include patient exposures, patient management and quality assurance. Students will also learn film techniques and processing. (Prerequisites: DA 1816)

Total Credits 3
Total Hours 64

Types of Instruction

Instruction Type Credits/Hours
Lecture 2 / 32
Laboratory 1 / 32

Pre/Corequisites
DA 1816 Radiology I

Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Explain appropriate use of specific dental terminology
   Learning Objectives
   Define and pronounce key radiographic terms
   Apply correct radiographic terms

2. Utilize infection control process
   Learning Objectives
   Explain infection control protocols
3. **Explain patient management techniques**

   **Learning Objectives**
   - Define patient communication techniques
   - Identify various management skills
   - Identify radiographic patient challenges

4. **Apply patient management techniques**

   **Learning Objectives**
   - Utilize patient management skills
   - Employ techniques to overcome patient challenges
   - Demonstrate patient-operator communications

5. **Identify regulations and record keeping for radiographers**

   **Learning Objectives**
   - Explain local and national radiation regulations
   - Define record keeping

6. **Identify various radiographic images**

   **Learning Objectives**
   - Define extra-oral image types
   - Identify intra-oral image types
   - Explain anatomical landmarks and anomalies

7. **Explain the history and discovery of radiation**

   **Learning Objectives**
   - Identify key discoveries of dental radiographs
   - Identify historical figures in dental radiography
   - Define early radiograph process

8. **Explain fundamental radiation physics**

   **Learning Objectives**
   - Identify molecular structures
   - Describe x-radiation, radiation, and radioactivity
   - Explain radiation properties and concepts

9. **Explain dental radiograph machine components**

   **Learning Objectives**
   - Identify radiation producing machines
   - Identify key components of dental radiograph machine
   - Describe safety components of radiograph machine

10. **Explain the process of producing radiation**

    **Learning Objectives**
    - Explain radiation production
    - Identify types of x-rays produced
    - Describe the steps of radiation production

11. **Identify characteristics of dental images**

    **Learning Objectives**
    - Explain acceptable image characteristics
    - Describe image errors
    - Identify image correction methods

12. **Explain radiation biology**

    **Learning Objectives**
Describe radiation risks and benefits
Identify radiation effect
Describe radiation injury within the body

13. **Describe extra-oral film techniques**

   **Learning Objectives**
   - Identify and apply panoramic techniques
   - Identify anatomical landmarks and anatomy
   - Identify extra-oral film errors
   - Demonstrate extra-oral film skills

14. **Explain radiographic film characteristics**

   **Learning Objectives**
   - Describe film components
   - Explain traditional film methods
   - Describe film errors and corrections

15. **Apply film processing knowledge and skills**

   **Learning Objectives**
   - Explain film processing steps
   - Identify chemical use and safety
   - Demonstrate traditional film processing

16. **Apply Bloodborne Pathogens standards**

   **Learning Objectives**
   - Discuss hazardous waste protocol
   - Incorporate Bloodborne Pathogen standard in labs
   - Implement Hazardous Waste protocol
   - Utilize Bloodborne Pathogen exposure prevention methods

**SCC Accessibility Statement**

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Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

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