



Course Description

DES0205 | Dental Radiology | 2.00 credits

This course is designed to provide students with a study of the principles of radiology, theory, and operation of X-ray equipment, darkroom procedures, film storage, and the hazards and precautions involved in dental radiology.

Course Competencies

Competency 1: The student will demonstrate knowledge of Radiation Health and Safety Standards processing by:

1. Explaining Radiation Health and Safety Standards and OSHA guidelines while exposing and processing diagnostic radiographs
2. Explaining the dental x-ray machine and its function and operation as related to patient safety
3. Explaining the biological effects of X-rays
4. Explaining the ALARA concept
5. Demonstrating appropriate infection control considerations and protocols for radiographs

Competency 2: The student will demonstrate knowledge of radiography exposure and processing by:

1. Summarizing how to expose and process diagnostic intra-oral radiographs
2. Summarizing how to expose and process diagnostic extra-oral radiographs
3. Explaining how to assess patient radiographic needs
4. Demonstrating techniques for bitewings (horizontal and vertical), occlusal films, and periapical including accepted methods with an emphasis on paralleling techniques for periapical
5. Explaining the supplementary techniques and patient management including endodontic, localization, edentulous, periodontics, and techniques for difficult anatomy and patients with disabling conditions

Competency 3: The student will demonstrate knowledge of mounting dental radiographs by:

1. Explaining how to mount, label, and document radiograph exposures accurately
2. Demonstrating the ability to self-critique work and discuss improvement and correction needs
3. Identifying the different forms of dental radiograph mounts

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning