

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** *Advanced Dental Radiology*

**Prefix and Course Number:** DENT 124

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Course Learning Outcomes:

**By the end of this course, a student should be able to:**

1. Identify the role of the dental assistant through demonstration of knowledge of extra oral films, digital radiographs, specialty films, normal radiographic landmarks and full mouth radiographic series and panoramic films on patients.
2. Use dental nomenclature relating to dental radiology equipment and procedures orally and in writing.
3. Define and spell terminology used in this unit.
4. Identify when and where to use personal protective equipment prior to, during and after treatment following OSHA/WISHA standards.
5. Be familiar with Washington State Department of Health Scope of Practice as related to radiology procedures allowable in Washington State.
6. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors and peers.

**Course Outline:**

**Extra Oral films:**

- 1) Describe uses and techniques for extra oral films.
  - a) Understand the sequence of exposing a panoramic film.

**Digital Radiographs:**

- 1) Differentiate between traditional film and digital sensors including technique differences.
- 2) Describe the use of digital radiology including specific terminology used.
- 3) Understand the use of digital sensors, and the accepted technique of patient positioning, sensor placement, angulation, and exposure to obtain radiographs on mannequin of diagnostic quality for the following areas:
  - a) Occlusal exposure
  - b) Pediatric exposure
  - c) Vertical bitewing
  - d) Endodontic exposure
  - e) Full mouth series

**Specialty Films:**

- 1) Describe and understand the difference between a variety of pediatric patients, the need of films per age and maturity.
- 2) Describe the use for occlusal films, understand the technique used in exposure.

**Radiographic Landmarks:**

- 1) Describe normal and abnormal radiographic landmarks.
- 2) Identify normal vs. abnormal radiographic landmarks, exposure, processing and handling errors of dental x-ray films according to acceptable dental standards.

**Patient Radiographs:**

- 1) Understanding the use of the digital technique, understand the accepted technique of patient positioning, sensor placement, angulation, and exposure to obtain radiographs on student partners and patients of diagnostic quality for the following areas:
  - a) Panoramic exposure

Print Date: 4/29/20

- b) Full mouth series
- 2) Understand correct documentation needed prior to patient treatment, charting verbiage and how to electronically send radiographs to a dentist office.