

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: DEN 120
Course Name: Dental Radiography
Credits: 2
Contact Hours: 2 Lecture

Course Description: Students learn the history and background of radiology and radiation physics. They are instructed in the components of dental x-ray machine, types of radiation, visual characteristics of the radiographic beam, radiation effects and measurement. They learn the purposes of x-rays as a diagnostic tool, with their risks and benefits. Detailed description of the effect of radiation exposure to the human body and the protocols for patient and dental assistant safety are stressed. They will learn common production errors, processing techniques, mounting procedures, identification of radiographic landmarks, the procedures and state policies required for dental offices to ensure quality radiographs, radiation safety, and the use of imaging systems for dental purposes.

Prerequisites: None

Textbooks: <http://bookstore.wdt.edu>

Online Components:
Dental Assisting Online (DAO) for Modern Dental Assisting
11th Edition, Bird & Robinson, Elsevier/Saunders, (2014)

Materials: Computer with internet access

Student Learning Outcomes:

- Relate the discovery of radiation, to types of radiation and its production.
- Connect the effects of radiation to radiation safety.
- Locate factors that affect x-ray quality and characteristics of the x-ray beam.
- Express the legal and ethical implications and importance of patient education.
- Conclude how x-rays aid in patient assessment.

Assessment: The core abilities of life skills, analytical skills, communication skills, technology skills and employability will be assessed throughout this course.

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