

Course Outline for: DENH 2252 Clinical Radiology 1**A. Course Description:**

1. Number of credits: 1
2. Clinic hours per week: 2
3. Prerequisites: Acceptance into the Dental Hygiene program
DENH 1150 Dental Radiology
4. Corequisites: DENH 2241 Clinic 2
5. MnTC Goals: None

Radiographs are an essential component of the assessment, diagnosis, education and treatment of disease in the dental hygiene process of care. The students practice and develop their dental radiographic technique in the radiology clinic. Students develop radiographic interpretation skills through communication with the patient, dentist and clinical assignments.

B. Date last reviewed/updated: May 2025**C. Outline of Major Content Areas:**

1. Appointment Routine
2. Radiographic Equipment
3. Radiation Safety
4. Documentation of Radiographs
5. Infection Control
6. Radiographic Techniques
7. Radiology Quality Control
8. Interpretation of Dental Radiographs
9. Use of Radiographs in the Care of the Patient

D. Course Learning Outcomes:

Upon successful completion of the course, the student will be able to:

1. Complete all steps of the Radiology Appointment Routine with the patient.
2. Practice appropriate infection control protocols in the dental radiology clinic.
3. Select the appropriate exposure controls for a patient.
4. Employ acceptable principles of Radiation Safety and Protection.
5. Select the type of image or radiographic series to best meet the patient's needs.
6. Demonstrate paralleling technique skill for intraoral radiographs.
7. Demonstrate skill in supplemental techniques for unique anatomy and patient management.
8. Demonstrate skill in exposing a panoramic image.
9. Identify Radiographic Technique errors and record on their Retake Analysis Log.
10. Correct the Radiographic Technique error with minimum guidance.
11. Describe the purpose and health benefits of radiographs to patients.

12. Prepare accurate documentation of dental radiographs exposed, informed consent and referrals.
13. Identify anatomical structures viewed on the dental radiographs.
14. Communicate radiographic findings to the patient.
15. Describe how radiographs benefit patients during the dental hygiene appointment.

E. Methods for Assessing Student Learning:

Methods for assessment may include, but are not limited to, the following:

1. Radiographic Assessments
2. Radiographic Interpretation Assignments

F. Special Information:

None