

Course Outline for: DENH 1151 Accelerated Dental Radiology**A. Course Description**

1. Number of credits: 2
2. Lab hours per week: 4
3. Prerequisites: Acceptance in Dental Hygiene Program; graduate from an accredited Dental Assisting Program; Minnesota licensed dental assistant; petition out of DENH 1150; successfully pass a written and performance exam; DENH 1112.
4. Corequisites: DENH 1142, 1143
5. MnTC Goals: None

This course is for dental professionals with previous training in radiation theory and clinical experience in dental radiography. Classroom/Lab/Clinic experiences teach radiographic interpretation and clinical radiographic techniques in the care of the patient.

B: Date Last Reviewed/Updated: January 2022**C. Outline of Major Content Areas**

1. Appointment Routine
2. Infection Control
3. Documentation of Radiographs
4. Radiographic Interpretation
5. Anatomical Landmarks on PA, BW, Panoramic radiographs
6. Normal Anatomy
7. Dental Caries
8. Restorative Materials
9. Periodontal Disease
10. Trauma, Pulpal and Periapical Lesions
11. Cysts of the Oral Cavity
12. Benign/Malignant Lesions
13. Systemic Disease
14. Genetic Conditions

D. Course Learning Outcomes

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

1. Follow all precautions to maintain an aseptic radiology clinic environment.
2. Identify factors that ensure radiographic quality assurance.
3. Describe all factors contributing to radiographic film quality.
4. Identify typical images of anatomic structures as recorded in periapical radiographs.
5. Recognize on a dental radiograph various restorative materials and carious lesions.
6. Understand the facts and principles associated with cervical burnout.
7. Know the radiographic entities associated with Periodontal Disease.
8. Interpret dental anomalies and acquired disturbances on a dental radiograph.

9. Recognize entities/disease associated with the periapical area and the pulp chamber.
10. Know the radiographic appearance of cystic entities and understand their etiology and clinic features.
11. Recognize the radiographic appearance of benign diseases associated with the jaws.
12. Recognize the radiographic appearance of malignant diseases associated with the jaws.
13. Analyze the radiographic appearance of systemic disease manifested in the jaws.
14. Determine the names and location of anatomical landmarks on a variety of extra-oral films.
15. Become effective in the interpretation of radiographs and identify radiographic artifacts.
16. Demonstrate correct technique basics and exposure for both film and imaging of intra-oral radiography.
17. Identify the dental films/images used in intra-oral and extra-oral dental radiography.
18. Identify factors and principles of diagnostically acceptable dental images.
19. Identify typical images of anatomic structures as recorded in bitewing and periapical dental films.
20. Relate radiology with diagnosis and treatment planning.
21. Identify future trends in dental radiology.
22. Accept responsibility in providing ethical and competent care in the dental radiology clinical setting.
23. Meet the professional portfolio requirements

E. Methods for Assessing Student Learning

1. Assignments/worksheets
2. Exams
3. Lab/Clinical requirements

F. Special Information:

None