COURSE NO., HOURS, AND TITLE:  DH 219L–1 Dental Radiology II Practicum

INSTRUCTOR: TBD

INSTRUCTOR CONTACT INFORMATION:
Telephone: TBD
E-mail: TBD
Office Location: TBD
Office Hours: TBD

COURSE DESCRIPTION:
The student will learn special dental survey techniques including paralleling, bisecting angle, digital, occlusal and special views. The student will also identify anatomical landmarks and recognize normal and pathological conditions that appear on dental images. Laboratory two hours. Course length: 16 weeks. Must be concurrently enrolled in DH 219. Prerequisites: DH 218, DH 218L, and DH 226. Restricted to DH majors only and approval from the School of Allied Health or the DH program. Lab fee: $35.

COURSE OBJECTIVES:
These objectives will be monitored by the course faculty and the student will be evaluated to determine competency in each area. The student must be able to:

1. Utilize the concept of bisecting angle technique and using the correct vertical angulation to obtain an optimum periapical image.

2. Comprehend the rationale of taking occlusal radiographs on patients and master the clinical technique.

3. Comprehend the application of dental panoramic radiography and be proficient with panoramic radiography equipment in a practice setting.

4. Know the use of intensifying screens in panoramic exposures.

5. Know the radiographic anatomy on a panoramic and occlusal image.

6. Expose digital radiographs using the Dexitis digital system and Dentrix software system along with utilization of the Rinn XCP-ORA holding system.

7. Recognize the differences between using conventional film and using digital radiography.
8. Utilize clinical techniques to handle complex situations and special needs patients in a radiographic situation.

9. Recognize and use alternative techniques to achieve the best image possible.

10. Recognize the radiographic appearance and landmarks of the maxilla and mandible.

11. Recognize normal anatomical structures on panoramic and occlusal films.

12. Identify the steps taken to interpret and diagnose radiographs.

13. Detect caries and periodontal disease on a radiograph and determine the different classifications of both entities.

14. Interpret periapical pathology as well as other apical and pulpal findings.

15. Determine types of traumatic injury of teeth and how to interpret on a radiographic image.

16. Expose and develop full mouth series (FMX), bitewings (BWX), and panoramic (PAN) radiographs on real patients using either film and/or a digital sensor.

17. Review the manual processing technique and have a basic understanding on how to complete the process in the darkroom situation.

18. Utilize developed films and duplicate the images in a darkroom lab setting and determine differences in density and contrast of the duplicate images.

19. Know the proper infection control techniques to utilize in the radiology lab setting, including prep of the unit, disinfecting the film packets, and personal protection equipment needed to expose radiographs on a patient.

20. Recognize and identify different types of restorative materials, and other materials and/or foreign objects commonly seen on dental radiographs.

21. Recognize different developmental anomalies that can be seen on dental radiographs.

CONTENT OUTLINE:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Percentages</th>
</tr>
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<tbody>
<tr>
<td>I. Review on Manual Processing/Film Duplication</td>
<td>10%</td>
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<tr>
<td>II. Infection Control and the Dental Radiographer</td>
<td>4%</td>
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</tbody>
</table>
III. Panoramic Imaging 15%
IV. Interpretation of Periodontal Disease 10%
V. Interpretation of Dental Caries 10%
VI. Normal Anatomy: Panoramic Films 10%
VII. Bisecting Technique/Occlusal & Localization Techniques 8%
VIII. Identification of Restorations, Dental Materials, and Foreign Objects 10%
IX. Interpretation of Trauma and Pulpal & Periapical Lesions 3%
X. Digital Imaging 20%

TEXTBOOKS:

REQUIRED:

RECOMMENDED: