MASTER SYLLABUS

COURSE NO., HOURS, AND TITLE: DH 219-2 Dental Hygiene Radiology II

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. Lecture two hours. Course length: 16 weeks. Prerequisites: DH 218, DH 218L and DH 226 with grades of C or better. Concurrent enrollment in DH 219L. Restricted to DH majors only and approval from the School of Allied Health or the DH program.

COURSE OBJECTIVES:
Upon completion of this course, the student will be able to:
1. Recognize the steps of bisecting angle technique.
2. Comprehend the rationale of taking occlusal radiographs on patients.
3. Comprehend the application of dental panoramic radiography.
4. Identify the reasons to use intensifying screens in panoramic exposures.
5. List radiographic anatomy on panoramic images.
6. Recognize the differences between using conventional film and using digital radiography.
7. Discuss techniques to handle complex situations and special needs patients in a radiographic situation.
8. Recognize alternative techniques to achieve the best image possible.
9. Recognize the radiographic appearance and landmarks of the maxilla and mandible.
10. Recognize normal anatomical structures on occlusal films.
11. Identify the steps taken to interpret and diagnose radiographs.
12. Detect caries and periodontal disease on a radiograph and determine the different classifications of disease processes.
13. Interpret periapical pathology as well as other apical and pulpal findings.
14. Determine types of traumatic injury of teeth and how to interpret on a radiographic image.
15. Identify state and federal laws as they impact dentistry as a whole.
16. Identify the legality and insurance issues that may arise in dentistry.
17. Review manual processing and have a basic understanding of this technique.
19. Discuss the proper infection control techniques to use in dental radiology.
20. Recognize and identify different types of restorative materials, and other materials and/or foreign objects commonly seen on dental radiographs.
21. Identify different types of digital imaging utilized in dentistry.
22. Recognize different developmental anomalies that can be seen on dental radiographs.

CONTENT OUTLINE:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Percentage of Time</th>
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<tbody>
<tr>
<td>I. Review on Manual Processing/Film Duplication</td>
<td>5%</td>
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<tr>
<td>II. Infection Control and the Dental Radiographer/Legal Issues</td>
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<tr>
<td>III. Panoramic Imaging</td>
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<td>IV. Interpretation of Periodontal Disease</td>
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<tr>
<td>V. Interpretation of Dental Caries</td>
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<td>VI. Normal Anatomy: Panoramic Images</td>
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<tr>
<td>VII. Bisecting Technique/ Occlusal &amp; Localization Techniques</td>
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<td>VIII. Identification of Restorations, Dental Materials, and Foreign Objects</td>
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<tr>
<td>IX. Interpretation of Trauma, Pulpal Lesions &amp; Periapical Lesions</td>
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<td>X. Imaging of Patients with Special Needs</td>
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<td>XI. Digital Imaging/Three-Dimensional Digital Imaging</td>
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<td>XII. Anomalies/Supplemental Materials</td>
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TEXTBOOK:

Required: