

## Master Syllabus

### DEH 1308 - Dental Radiology

**Division:** Health Sciences

**Department:** Dental Health Sciences

**Credit Hour Total:** 3.0      **Lecture Hrs:** 2.0 **Lab Hrs:** 2.0

**Prerequisite(s):** DEH 1202 AND DEH 1203

**Other Prerequisite(s):** AND Restricted to Majors

**Date Revised:** June 2015

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### Course Description:

Scientific principles of radiation, radiographic production and patient management in dental practice. Two classroom, two lab hours per week.

### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Oral Communication Competency

### Course Outcomes:

#### Radiation Production & Protection

Relate the principles of radiation production to radiation protection.

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

Pass quizzes and exams with 70% or better

#### Producing Distinctive Images

Identify the parts of the dental x-ray machine and state the effects of each on beam quality and image.

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

Pass quizzes and exams with 70% or better

#### Quality Control

Demonstrate principles of maintenance, film handling and record keeping relative to quality assurance.

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

Pass quizzes and exams with 70% or better

#### Imaging Techniques

Apply technical skills and analyze the need for various imaging techniques.

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

Achieve 70% or better

**Assessment Method:** Performance appraisals  
**Performance Criteria:**

Correctly assemble imaging apparatus @ 70% or better within allotted time-frame

**Assessment Method:** Simulations  
**Performance Criteria:**

Score 70% or better on all radiographic technique evaluation and proficiency competencies

#### Patient Considerations

Identify patient consideration protocols and issues.

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

Pass quizzes and exams with 70% or better

#### Principles of Interpretation

Interpret and present radiographic findings as normal or abnormal and identify supporting structures, landmarks and artifacts.

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

Pass quizzes and exams with 70% or better

#### Compose and organize oral communication messages

Collaborate with community partners to develop service-learning lesson plans for oral presentation in diverse community settings.

**Assessment Method:** Simulations

**Performance Criteria:**

Grading rubric

**Assessment Method:** Simulations

**Performance Criteria:**

Grading rubric

**Outline:**

Imaging Techniques

Principles of Interpretation

Quality Control

Patient Considerations

Radiation Production & Protection

Producing Distinctive Images