

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

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