

**Course Outcomes Guide  
Fall 2013**

**Course/Program Title: DEN 104 Dental Radiology**

**Date: Fall 2013**

**Course/Program Team: Dr. Paul Kane and Rebecca Leonard**

**Expected Learning Outcomes:**

- 1. Demonstrate proper placement techniques for dental radiographs**
- 2. Illustrate proper usage of the dental radiographic equipment.**
- 3. Summarize the dental laws governing dental radiography and dental assistants.**
- 4. Properly utilize the Standard Precautions when exposing and developing radiographs**
- 5. Demonstrate competency in dental radiographic surveys**
- 6. Explain the need for re-certification course and how it relates to the dental team member.**
- 7. Identify proper radiographic surveys for patients.**
- 8. Perform dental radiographic surveys as a dental team member.**
- 9. Restate concepts of oral radiology.**

**Assessment: Course completion: Number passing at 75% or greater**

**CO #1 Quizzes 2,3,4,5,10 and lab comps 2,3,4**

**CO#2 Quizzes 4,5,6**

**CO#3 Quizzes 2,3,4,5,10 lab comps 2,3,4**

**CO#4 lab comps 5,6**

**CO#5 final exam questions 1-20**

**CO#6 lab comps 5 and 6**

**CO#7 final exam questions 20-25**

**CO#8 lab comps 5 and 6**

**CO#9 final exam question 30-50**

**Validation:**

**Completion of course with an average grade of 75% or higher**

**Course outcome 1 quizzes 2,3,4,5,10 and lab comps 2,3,4 placement techniques**

Course outcome 2	quizzes 4,5,6	maintenance of equipment and storage
Course outcome 3	quizzes 2,3,4,5,10	and lab comps 2,3,4 state laws/ethics
Course outcome 4	lab comps 5,6	asepsis techniques/ precautions when exposing
Course outcome 5	final exam questions 1-20	placement of x-rays, oral surveys
Course outcome 6	lab comps 5,6	being a competent dental member/ recert
Course outcome 7	final exam questions 20-25	reading films/ fogging/ OE/
Course outcome 8	lab comps 5,6	placement of x-rays/ reading x-rays/ fixing problems
Course outcome 9	final exam questions 30-50	identify artifacts on radiographs

**Results: Course completion:**

**88% (16/18 students) completed the course with a grade of 75% or higher**

**11% (2/18 students) completed the course with a grade less than 75%. Of these 2 students who could not continue in the program, 1 was a result of failure of co-requisite BIO110**

**Course outcomes (common quizzes and final exam questions): N-18**

**Course outcome #1: 70% received a 75% or better on quizzes  
96% received a pass on lab comps**

**Course outcome #2 70% received a 75% or better on quizzes**

**Course outcome #3 70% received a 75% or better on quizzes  
96% received a pass on lab comps**

**Course outcome #4 90.5% received a pass on lab comps**

**Course outcome #5 87% received a 75% or better on final exam questions**

**Course outcome #6 90% received a pass on lab comps**

**Course outcome #7 87% received a 75% or better on final exam questions**

**Course outcome #8 90.5% received a pass on lab comps**

**Course outcome #9 90% received a 75% or better on final exam questions**

**Follow-up:**

**Students who did not receive a 75% or better in DEN104 dental radiology remained consistent from prior years. I intend to implement placing quizzes and tests on moodle for the students to take these exams in the testing center. This will result in an average of 9 hours of gained contact time throughout the 15 week semester. Extra activities and tutoring sessions will also be implemented to improve our number of students who “fail” out of the program.**

