

Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information**Department:** Health Sciences: Allied Health**Submitter**

First Name: Maria

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Course Prefix and Number: DA - 101**# Credits:** 2**Contact hours**

Lecture (# of hours): 22

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 22

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Dental Radiology I**Course Description:**

Introduction to history and principles of dental radiology, terminology, and basic physics associated with x-rays, biological effects of x-rays, anatomical landmarks and infection control.

Type of Course: Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Dental Assistant Certificate

Are there prerequisites to this course?

No

Are there corequisites to this course?

Yes

Co-reqs: DA-101L

Are there any requirements or recommendations for students taken this course?

Yes

Recommendations: None

Requirements: Admission into Dental Assistant program. Instructor consent.

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ **Fall**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. discuss the knowledge and skill requirements of the dental radiographer,
2. label and explain the component parts of the dental x-ray machine,
3. summarize the importance of dental radiographs,
4. explain the rationale for operator and patient protection when exposing radiographs,
5. state the ALARA concept,
6. critique the risk versus benefit of dental radiographs,
7. identify the three types of intraoral radiographic examinations,
8. state the basic principle of the paralleling technique and illustrate the placement of the receptor, beam alignment device, position-indicating device (PID), and central ray;
9. state the basic rules for the bite-wing technique,
10. critique a diagnostic dental radiograph,
11. list and describe the different types and sizes of x-ray film used in dentistry,
12. identify the quality control procedures necessary to ensure radiographs of the highest quality with minimum exposure to patients and dental personnel,
13. determine the measures necessary to correct exposure errors,
14. utilize major oral landmarks to assist with mounting radiographs,
15. explain the legal significance of the dental record,
16. describe infection control procedures necessary in x-ray exposure and development.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. The Discovery and History of X-Radiation
2. Radiation Physics
3. Biological Effects of Radiation and X-ray Protection
4. Dental X-ray Machine Function/Operation
 - a. principles of the x-ray machine
 - b. patient/operator safety
5. Dental X-ray Film
6. Infection Control
7. Legal Considerations
8. Intra- Oral Radiographic Techniques
 - a. infection control
 - b. film and PID positioning
 - c. paralleling and bitewing techniques
 - d. common errors
9. Film Processing and Mounting

- a. infection control
- b. darkroom and film processing
- c. quality control
- d. mounting diagnostic quality films

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Specify term: Fall 2015
