

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

DEPT. DEN

COURSE NUMBER: 1100

NUMBER OF CREDITS: 3

Lecture: 2 Lab: 1 OJT: 0

### Course Title:

Oral Radiology I

### Catalog Description:

Oral Radiology I introduces the student to fundamental principles of dental radiography. An emphasis is placed on x-ray production, radiation safety, exposure techniques, and evaluation of radiographs. Application of principles and techniques will be performed on lab manikins.

### Prerequisites or Necessary Entry Skills/Knowledge:

ENGL 0090 or placement by multiple measures. DEN 1110 may be taken concurrently.

### FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

### Topics to be Covered

Radiation Physics

Radiation Characteristics

Radiation Biology

Radiation Protection

X-ray Equipment

X-ray Image Characteristics

Radiographer Basics

Radiographic Exams

Paralleling and Bisecting Techniques

Bitewing Technique
Exposure and Technique Errors
Film Mounting/Anatomic Order
Normal Anatomical Structures

<b>Student Learning Outcomes</b>
Describe basic theory of dental radiography physics, characteristics, and biology.
Demonstrate radiation protection.
Identify exposure and technique errors.
Demonstrate correct intra-oral radiographic techniques.

<b>Is this course part of a transfer pathway: Yes</b> <input type="checkbox"/> <b>No</b> <input checked="" type="checkbox"/>
<b>*If yes, please list the competencies below</b>

Revised Date: 1/18/2022