

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

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

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

Revised Date: 1/18/2022