MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. DEN COURSE NUMBER: 1100

NUMBER OF CREDITS: 3 Lecture: 2 Lab: 1

Course Title:
Oral Radiology I

Catalog Description:
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.

FULFILLS MN TRANSFER CURRICULUM AREA(S)
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:

Prerequisites or Necessary Entry Skills/Knowledge:
DEN 1110 – may be taken concurrently
Students must meet one of the following placement measures:
A score of 50 - 77 on test ACCUPLACER Classic Reading Comprehension
A score of 233 - 249 on test ACCUPLACER Next-Gen Reading Comprehension
A score of 16 - 17 on test ACT English
A score of 14 - 20 on test ACT Reading
ENGL 0090 – Essentials of Writing I

Topics to be Covered

1. Radiation Physics
2. Radiation Characteristics
3. Radiation Biology
4. Radiation Protection
5. X-ray Equipment
6. X-ray Image Characteristics
7. Radiographer Basics
8. Intro to Radiographic Exams/ Paralleling and Bisecting
9. Bitewing Exam
10. Exposure and Technique Errors
11. Film Mounting/Anatomic Order
12. Normal Anatomical Structures

Student Learning Outcomes

1. Describe basic theory of dental radiography physics, characteristics, and biology
2. Demonstrate radiation protection
3. Identify exposure and technique errors
4. Demonstrate correct intra-oral radiographic techniques

Is this course part of a transfer pathway: Yes ☐ No ☐ X

Revised 4/20