

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. RADT

COURSE NUMBER: 1100

NUMBER OF CREDITS: 4

Lecture: 3 Lab: 1 OJT 0

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| Course Title: |
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| Introduction to Radiography & Patient Care |
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| Catalog Description: |
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| Introduction to Radiography and Patient care provides the basic concepts of patient care in radiography as well as introduce radiology, radiology as a career, radiologic technologist roles, and radiologic technology education. The role of the radiographer will be identified as well as basic information regarding making radiographic exposures. The student will be introduced to the specialized modalities of radiography as well as cross-sectional imaging. |
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| Prerequisites or Necessary Entry Skills/Knowledge: |
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| None |
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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:

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| Topics to be Covered (General) |
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| Radiographic Imaging & Radiographic and Fluoroscopic Equipment |
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| Basic Radiation Protection and Radiobiology |
| Patient Care and Interactions |
| Safe Patient Movement and Handling Techniques and Immobilization |
| Ultrasound, Radiation Therapy, Cross Sectional Anatomy, Nuclear Medicine, MRI & PET, Mammography & Bone Densitometry |

| Student Learning Outcomes |
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| Describe the scope of practice for the radiographer as defined by the ASRT. |
| Demonstrate appropriate patient care techniques. |
| Determine environmental safety procedures. |
| Recognize medical emergencies and traumatic injuries. |
| Manipulate equipment for all radiographic procedures. |
| Demonstrate basic understanding of radiation protection and ALARA principle. |
| Identify characteristics of a quality radiograph. |
| Describe basic components of image production. |
| Explain the basic concepts of pharmacology and the drugs used in radiology. |
| Discuss special imaging modalities in radiography including MRI, Ultrasound, DEXA, Nuclear Medicine, and Radiation Therapy. |

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| 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> |
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Revised Date: 03/28/2023