

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. RADT

COURSE NUMBER: 2293

NUMBER OF CREDITS: 1

Lecture: 1 Lab: 0 OJT: 0

Course Title:
Mammography Basics

Catalog Description:
Mammography Basics is designed to provide a comprehensive review of mammography and a step by step method of preparation for successful completion of the American Registry of Radiologic Technologists (ARRT) Mammography Registry Exam.

Prerequisites or Necessary Entry Skills/Knowledge:
Registered Radiologic Technologist through the American Registry of Radiologic Technologist

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
Patient Care
Image Production
Equipment Operation
Quality Assurance
Procedures
Breast Anatomy, Physiology, and Pathology
Mammographic Positioning

Student Learning Outcome

Obtain knowledge to help prepare for the ARRT Mammography exam.
Understand basic positioning skills for the CC and MLO views.
Explain advanced positioning technique for supplementary views, difficult patients and implant patients.
Review and gain knowledge on breast anatomy, disease processes and pathology.
Gain knowledge on the various treatment options for various types of breast diseases.
Review patient care techniques including documentation of patient history, informed consent and more.
Describe how various physical characteristics of the x-ray tube affect mammographic imaging.
Understand mammographic quality control testing procedures per MQSA guidelines.
Describe the differences between imaging systems used to perform examinations.
Describe and develop a comprehensive quality assurance program for digital mammography.
Understand the differences between regulatory bodies, such as MQSA, ACR and the ARRT.
Describe the parameters in digital imaging that control resolution and contrast.
Describe newly emerging technologies used with digital mammographic imaging.
Problem solving gained through scenarios presented for patients with special accommodations.
Interactive group work
Interactive lecture

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

***If yes, please list the competencies below**

Revised Date: 1/24/2022