MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty is 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. RADT               COURSE NUMBER: 2293

NUMBER OF CREDITS: 1

COURSE TITLE: Mammography Basics

CATALOG DESCRIPTION: This course 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. This course provides you with the initial training in mammography that is required by the MQSA and provides you 16 hours of structured education related to the content specifications as outlined by the ARRT.

AUDIENCE: This course is appropriate for Radiologic Technologists desiring to enter the field of Mammography with no previous experience, as well as technologists who have worked in Mammography without formal mammography training.

FULFILLS MN TRANSFER CURRICULUM AREA(S) *(Leave blank if not applicable)*
Area: by meeting the following competencies:
Area: by meeting the following competencies:
Area: by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:

Registered Radiologic Technologist through the American Registry of Radiologic Technologists

LENGTH OF COURSE: 8 weeks

THIS COURSE IS USUALLY OFFERED:
Every other year □  fall □  spring □  summer □  undetermined □

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. Obtain knowledge to help prepare for the ARRT Mammography exam.
   b. Understand basic positioning skills for the CC and MLO views.
c. Explain advanced positioning technique for supplementary views, difficult patients and implant patients.

d. Review and gain knowledge on breast anatomy, disease processes and pathology.

e. Gain knowledge on the various treatment options for various types of breast diseases.

f. Review patient care techniques including documentation of patient history, informed consent and more.

g. Describe how various physical characteristics of the x-ray tube affect mammographic imaging.

h. Understand mammographic quality control testing procedures per MQSA guidelines.

i. Describe the differences between imaging systems used to perform examinations.

j. Describe and develop a comprehensive quality assurance program for digital mammography.

k. Understand the differences between regulatory bodies, such as MQSA, ACR and the ARRT.

l. Describe the parameters in digital imaging that control resolution and contrast.

m. Describe newly emerging technologies used with digital mammographic imaging.

2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:

a. Problem solving gained through scenarios presented for patients with special accommodations

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:

a. Interactive group work
b. Interactive lecture

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:

a.
b.
TOPICS TO BE COVERED:
Patient Care
Image Production
Equipment Operation
Quality Assurance
Procedures
Breast Anatomy, Physiology, and Pathology
Mammographic Positioning

COURSE LEARNING OUTCOMES (GENERAL):
To gain an overall knowledge of mammography.

LEARNING/TEACHING TECHNIQUES used in the course are:
☒ Collaborative Learning ☐ Problem Solving
☐ Student Presentations ☒ Interactive Lectures
☐ Creative Projects ☐ Individual Coaching
☒ Lecture ☒ Films/Videos/Slides
☒ Demonstrations ☐ Other (describe below)
☐ Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
☒ Reading ☒ Tests ☐ Individual Projects
☐ Oral Presentations ☒ Worksheets ☐ Collaborative Projects
☒ Textbook Problems ☒ Papers ☐ Portfolio
☐ Group Problems ☐ Term Paper
☐ Other (describe below)

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

The information in this course outline is subject to revision

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or via your preferred Telecommunications Relay Service.

A Member of the Minnesota State Colleges and Universities System
An Affirmative Action Equal Opportunity Educator/Employer

Revised 10/1/16