MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty 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 Collegewide Curriculum Committee.

DEPT: Radiology              COURSE NO: RADM120

COURSE TITLE: Radiological Procedures II

CATALOG DESCRIPTION: This course will provide the student with the knowledge necessary to perform radiographic procedure relative to the urinary system, the bony thorax, skull, vertebral column and arthrology. Emphasis will be on radiographic terms, anatomy, positioning, manipulation of radiographic equipment and accessories, and patient care considerations related to radiography of the urinary system, bony thorax, vertebral column, skull and arthrography. Basic techniques in venipuncture, contrast media types, intravenous medication and emergency response will also be included.

AUDIENCE: Radiologic Technology Students

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: RADM1100, RADM1110 and BIOL2202

LENGTH OF COURSE: Five hours per week for 16 weeks

THIS COURSE IS USUALLY OFFERED:
Every other year [ ] fall [ ] spring X [ ] summer [ ] undetermined [ ]

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

1) ACADEMIC CONTENT: The student will demonstrate their ability to accurately position patients for all radiographic exams covered in this course.
2) THINKING SKILLS: The student will be able to adapt positioning skills to the specific needs of all patients in the radiology department.
3) COMMUNICATIONS SKILLS: The student will explore their values and experience and the impact on radiology patients and health care.
4) HUMAN DIVERSITY: The student will explore cultural influences as it relates to all patients in the radiology department.
TOPICS TO BE COVERED:
See course goals and outcomes.

LIST OF EXPECTED COURSE OUTCOMES:
1. describe standard positioning terms
2. demonstrate proper use of positioning aids
3. discuss general procedural considerations for radiographic/fluoroscopic examinations
4. adapt general procedural considerations to specific clinical settings
5. cite the structures demonstrated on routine radiographic/fluoroscopic procedures
6. adapt radiographic/fluoroscopic procedures based on special considerations
7. simulate radiographic/fluoroscopic procedures on a person or phantom in a laboratory setting
8. evaluate images for positioning centering, appropriate anatomy and overall image quality
9. discuss equipment and supplies necessary to complete radiographic/fluoroscopic procedures
10. recite the patient preparation needed for various contrast and special studies
11. list and explain the routine and specials views for all radiographic/floroscopic procedures covered in this course
12. explain the purpose for using contrast media
13. differentiate between positive and negative contrast agents
14. identify the types, dosage and route of administration of contrast media commonly used
15. identify methods and barriers of communication and describe how each may be utilized or overcome effectively during patient education
16. explain radiographic procedures to patients/family members
17. apply general radiation safety and protection practices associated with radiologic examinations
18. demonstrate venipuncture technique
19. demonstrate aseptic and sterile technique

LEARNING/TEACHING TECHNIQUES used in the course are:
X Collaborative Learning  X Problem Solving
Student Presentations  X Interactive Lectures
X Creative Projects  □ Individual Coaching
X Lecture  X Films/Videos/Slides
X Demonstrations
□ Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
X Reading  X Tests  Individual Projects
□ Oral Presentations  X Worksheets  X Collaborative Projects
X Textbook Problems  Papers
□ Group Problems  □ Term Paper
□ Other (describe below)
EXPECTED STUDENT LEARNING OUTCOMES: See Above.

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.

**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.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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