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: 2210

NUMBER OF CREDITS: 3

COURSE TITLE: Radiological Procedures III

CATALOG DESCRIPTION:

Examine previously learned radiographic procedures to provide the student with the knowledge necessary to adapt radiographic procedures relative to traumatic injury, surgical and portable radiography. In addition the student will be introduced to the specialized modalities of radiography as well as cross-sectional imaging.

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:
RADT 1130

LENGTH OF COURSE: 4.5 hours per week for 11 weeks

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

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

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. Demonstrate the ability to accurately position patients for all radiographic exams previously learned.
   b. Introduce to the special modalities within radiology.
   c. Identify cross sectional anatomy.
2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. Adapt position skills to complex situations in radiology.
   b. Identify radiographic techniques necessary for adaptation on radiographic procedures.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. Explore values and the impact on radiology patients and health care.

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
   a. Explore cultural influences as it relates to interactions with various members of health care team.

TOPICS TO BE COVERED:
See below.

LIST OF EXPECTED COURSE OUTCOMES:
1. demonstrate proper use of positioning aids
2. adapt radiographic/fluoroscopic procedures based on special considerations
3. simulate radiographic/fluoroscopic procedures on a person or phantom in a laboratory setting
4. discuss equipment and supplies necessary to complete radiographic/fluoroscopic and specialized procedures
5. recite the patient preparation needed for various contrast and special studies
6. list and explain the routine and specials views for all radiographic/floroscopic procedures
7. explain the purpose for using contrast media
8. differentiate between positive and negative contrast agents
9. identify the types, dosage and route of administration of contrast media commonly used
10. identify methods and barriers of communication and describe how each may be utilized or overcome effectively during patient education
11. apply general radiation safety and protection practices associated with radiologic examinations
12. demonstrate sterile technique and procedures used in surgical radiography
13. demonstrate the special considerations used in radiography of the types of exams covered in this course
14. Explain cross-sectional anatomy
15. Explain specific operation in regard to mammography
16. Discuss special imaging modalities in radiography including MRI, Ultrasound, DEXA, Nuclear Medicine, and Radiation Therapy.
17. Adapt to mobile and trauma settings using portable x-ray equipment

LEARNING/TEACHING TECHNIQUES used in the course are:

x□ Collaborative Learning    x□ Problem Solving
Student Presentations  Interactive Lectures  Individual Coaching
Lecture  Films/Videos/Slides  Other (describe below)
Demonstrations
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)

EXPECTED STUDENT LEARNING OUTCOMES:
See above.

The information in this course outline is subject to revision.

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.

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.

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7/30/13