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### AHXR 141.01: Radiologic Methods Lab

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**MISSOULA COLLEGE UNIVERSITY of MONTANA  
DEPARTMENT OF RADIOLOGIC TECHNOLOGY**

**COURSE SYLLABUS**

**COURSE NUMBER AND TITLE:** AHXR141 Radiologic Methods Lab

**DATE REVISED:** Fall 2013

**SEMESTER CREDITS:** 1.00

**PREREQUISITES:** SCN 201N Anatomy and Physiology, CAPP 120 Intro to Computers (or proof of competence), M 115 Probability and Linear Math or M121 College Algebra, SCN 175N Integrated Physical Science, WRIT 121 Technical Writing or WRIT 101 English Composition.

**Faculty:**

**E-Mail:**

**Phone:**

**Office:**

**Office Hours:** By appointment

**RELATIONSHIP TO PROGRAM:** This course provides students with a comprehensive understanding of bony anatomy and universally required positioning techniques for standard radiology.

**COURSE DESCRIPTION:** The content of this course is designed to provide an introduction to the anatomical structures utilized in basic radiological positioning. It teaches students how to use bony landmarks to position patients, while giving attention to specific patient considerations, such as: culture, communication, and transport/transfer. To complement the didactic course.

**STUDENT PERFORMANCE GOALS:**

Upon completion of this course, the student will be able to:

1. Describe standard positioning terms.
2. Demonstrate proper use of positioning aids.
3. Discuss general procedural considerations for radiographic exams.
4. Identify methods and barriers of communication and describe how each may be used or overcome effectively during patient education.
5. Explain radiographic procedures to patients/family members.
6. Modify directions to patients with various communication problems.
7. Develop an awareness of cultural factors that necessitate adapting standard exam protocols.
8. Adapt general procedural considerations to specific clinical settings.

9. Identify the structures demonstrated on routine radiographic and fluoroscopic images.
10. Adapt radiographic and fluoroscopic procedures for special considerations.
11. Simulate radiographic and fluoroscopic procedures on a person or phantom in a laboratory setting.
12. Evaluate images for positioning, centering, appropriate anatomy and overall image quality.
13. Discuss equipment and supplies necessary to complete basic radiographic and fluoroscopic procedures.
14. Explain the patient preparation necessary for various contrast and special studies.
15. Explain the routine and special positions/projections for all radiographic/fluoroscopic procedures.
16. Explain the purpose for using contrast media.
17. Name the type, dosage and route of administration of contrast media commonly used to perform radiographic contrast and special studies.
18. Describe the general purpose of radiographic and fluoroscopic studies.
19. Apply general radiation safety and protection practices associated with radiographic and fluoroscopic examination

#### **STUDENT PERFORMANCE OUTCOME ASSESSMENT METHODS AND GRADING PROCEDURES:**

Grades will be determined by total points received for attendance, participation, demonstration of proper body mechanics, proper positioning techniques, and comprehension of terminology, quizzes, and final exam:

Attendance/ Absences and Tardies (class & labs) – 15 %

Class and Lab Participation – 25 %

Lab Practical – 30 %

Final Exam – 30 %

Quizzes are Pass/Fail; each quiz passed will earn one point to be added to Final Exam grade

#### **Grading scale:**

**100-90 A**

**89-80 B**

**79-70 C**

**69-60 D**

**Note: Students must pass this course with a “B” (80%) in order to continue with the Radiologic Technology Program next semester.**

**ATTENDANCE POLICY:** All students are expected to come to class each day, on time. If you are unable to do so, please call my office, at least ½ hour before your absence or tardiness, and leave a message explaining the reason for your absence or tardiness.

Students are expected to be prepared for class each day by having all books with them, at all times, having read the assigned chapters, and by having projects/papers complete, and ready to be turned in on time. Class attendance and participation are required, and will be graded.

**REQUIRED TEXT:** *Merrill's Atlas of Radiologic Positioning & Procedures: Twelfth Edition (three volumes)*

**Workbook:** *Merrill's Atlas of Radiologic Positioning & Procedures: Twelfth Edition*

**SUPPLEMENT:** *Merrill's Pocket Guide to Radiography (spiral bound)*

**Resources:** <http://evolve.elsevier.com/enroll> Course ID# 2279\_pgauthier2\_0001

**ACADEMIC INTEGRITY:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by The University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at <http://life.umt.edu/vpsa/studentconduct.php>

**DISABILITY ACOMODATION:** Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please speak with me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator. For more information, visit the Disabilities Services website at <http://www.umt.edu/dss/> or call 406-243-2243 (voice/text).

**Note: Instructor reserves the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances.**

**Meeting places:** Monday Lab (half class) –Rm 005, Basement, Integrated Science Bldg. (ISB) Main Campus

\*OR\* CMC TBA in lecture.

- First lab students meet promptly for class on Mondays from 13:00 –14:50.
- Second lab students meet promptly for class on Monday from 15:00-16:50.
- This schedule of classes/labs is subject to change at the discretion of the instructor. Appropriate notification of such changes will be provided.

All Labs are held on the Main Campus, in room 005, in the basement of the Integrated Science Building (ISB) unless instructed to meet at CMC. The ISB is located on the corner of Arthur and Beckwith. The phone number to the “Hot Lab” is: 243-6696.

It is strongly encouraged that students take advantage of the Campus Shuttle Bus to serve as their transportation vehicle to & from the Hot Lab. It conveniently leaves from the front door of the Administration Building of the MC every 15 minutes, beginning at 7:30 am, each day. There is a bus stop on Beckwith, directly adjacent to the parking lot of the ISB. It is suggested that at least 15 minutes be

allowed for travel time from the MC to the ISB to account for the additional stops made along the shuttle route.

Students are required to dress appropriately for labs, (in clean scrubs) the same as they would for Clinical Rotations, as according to the regulations set forth in the Radiologic Handbook. They must also come to Labs prepared with positioning books, notes, markers and a writing utensil.

Revised 1/16/2014