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## AHXR 295.01: Clinical Procedures III

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**MISSOULA UNIVERSITY of MONTANA  
DEPARTMENT OF RADIOLOGIC TECHNOLOGY  
COURSE SYLLABUS**

**COURSE NUMBER AND TITLE: AHXR 295 Clinical Procedures III**

**DATE REVISED: Fall 2013**

**SEMESTER CREDITS: 8**

**PREREQUISITES:** BIOH 201N, BIOH 211, AHXR 100, AHXR 121, AHXR 140, AHXR 195-I and AHXR 195 -II

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**Office Hours:** By Appointment

**RELATIONSHIP TO PROGRAM:** This course allows students to engage in the hands on phase of this program. Opportunity to employ competency-based skills in patient management, radiographic techniques, positioning, fluoroscopic and surgical protocols is provided.

**COURSE DESCRIPTION:** Additional experiences in patient management and more complex patient procedures are provided. Emphasis is on trauma situations and fluoroscopic studies, and adapting these procedures to meet variations in patient needs and to demonstrate mastery of learning.

**COURSE SCHEDULE:** Clinical hours vary each semester and with each site, and are specific to the type of clinical rotation.

**STUDENT WORK ETHICS PERFORMANCE STANDARDS**

Character:

Display a high level of effort and commitment to performing and completing work.

Be honest in all situations.

Demonstrate trustworthiness and responsible behavior.

Teamwork:

Encourage and facilitate cooperation, pride, trust, and group identity.

Foster commitment and team spirit.

Facilitate cooperation.

Appearance:

Present a neat, clean professional appearance.

Practice personal hygiene.

Wear approved uniforms and comply with clinical site policies.

Be prepared with ID markers and badges on a daily basis.

Attitude:

Display a willingness to cooperate and accept constructive criticism.

Set realistic expectations.

Productivity:

Observe established policies on safety.

Notify proper authorities of circumstances or situations presenting potential safety hazards.

Maintain equipment and supplies.

Do not use, or knowingly permit others to use tools/equipment improperly.

Make up missed assignments in a timely manner.

Stay on task and utilize time constructively.

Organization Skills:

Prioritize and manage time effectively.

Demonstrate flexibility in adapting to changes.

Communication:

Communicate accurate information to others in a professional and courteous manner.

Demonstrate appropriate nonverbal communication skills.

Listen attentively to others.

Cooperation:

Convey a willingness to assist others.

Work to resolve conflicts, and to identify solutions in which all parties benefit.

Demonstrate concern for treating people fairly and equitably.

Follow the chain of command in resolving conflicts.

Respect:

Treat instructors, staff, and fellow students with respect, courtesy, and tact.

Do not engage in harassment of any kind.

### **STUDENT PERFORMANCE OUTCOMES:**

1. Apply greater knowledge of the principles of radiation biology and protection for the patient, radiographers, and others.
2. Apply greater knowledge of human anatomy, physiology, radiographic procedures, radiographic technique, instrumentation, equipment, and pathology to accurately demonstrate anatomical structures on a radiograph.
3. Demonstrate at all times; ethical conduct and values, positive professional behavior, positive communication, and empathy towards their patient's needs.
4. Exercise good judgment, common sense, and critical thinking skills in the pursuit of quality radiographs and solving problems.
5. Exercise confidentiality of patient records and information.
6. Assess radiographic density on radiographic images.

7. Discuss practical considerations in setting standards for acceptable image quality.
8. Distinguish between acceptable and unacceptable images densities.
9. Critique the radiographic contrast within various radiographic images.
10. Analyze the relationship factors that control and effect recorded detail.
11. Explain the rationale for using beam limiting devices.
12. Evaluate the effects of scattered radiation on the image.
13. Select the most appropriate grid for a given clinical situation.
14. Apply mAs reciprocity to clinical simulations.
15. Describe the effects of storage on image quality.
16. Select the most appropriate image receptor to be used for given clinical situations.
17. Describe various types of image receptor holders.
18. Select the most appropriate intensifying screen for given clinical situations.
19. Analyze the effects of processing on image quality.
20. Identify the key components of an automatic film processor.
21. Demonstrate how various film sizes are fed into the film processor.
22. Identify various types of artifacts and analyze them to determine the cause.
23. Provide patient care, essential to radiologic procedures.
24. Recognize emergency patient conditions, and initiate life saving first aid.
25. Participate in an introduction to advanced or specialized imaging procedures when presented with advanced educational opportunities.
26. Recognize the need to obtain further education in the pursuit of life-long learning.

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

Grades will be determined by clinical education evaluations, radiographic positioning tests at the clinical sites, the completion of competency requirements in mandatory and elective categories and attendance.

All surgical competencies are expected to be completed during this rotation. Additionally, 30 of the 36 required Mandatory Competencies and 8 of the 15 required Elective Competencies should be completed.

At least two written evaluations will be made available to the student during a semester. These evaluations will assess both cognitive and affective progress in the clinical setting.

During the semester, at least four (4) practical positioning tests will be required of each student. These tests will take place at the assigned facility and will be administered by the Clinical Coordinator. Criteria will include: knowledge of anatomy, image analysis, and a demonstration of the ability to select appropriate techniques, patient care skills, proper radiation protection, and the ability to make corrections when necessary.

The final grade will be based on: Competencies- 40%, Positioning Tests/Evaluations- 40%, and Attendance-20%.

**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 still be considered a part of the Radiologic Technology Program.**

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or 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://www.umt.edu/SA/VPSA/index.cfm/page/1321>.

**STUDENTS WITH DISABILITIES:** 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.

**ATTENDANCE POLICY:** The attendance for clinicals is mandatory. The clinical coordinator and the Clinical Site Instructor must be called at least 30 minutes prior to the start of the shift when you know you are going to be absent. Each student is allowed three (3) Personal Days for the semester. These days can be used for any reason the student deems necessary (illness, family event, appointments) and they will be considered excused. Arrangements will have to be made to make up any days missed from clinicals beyond the allotted 3, within the semester, and at the convenience of the Site Instructor. Students are responsible for making arrangements with the Site Instructors at the facility where the time must be made up, and any failure to do so may result in a reduction of the clinical grade.

All absences must be recorded on a “Change of Schedule” form, to be signed by the student, Clinical Coordinator, and Site Instructor.

Punctuality is very important therefore; reporting late (5 minutes or more) for your shift for the third time in the semester will be counted as an unexcused absence and will be reflected in the final grade. If you are going to be tardy to your assigned facility, please phone your Site Instructor as soon as possible to notify them of your situation.

**Time Sheets will be maintained by the student and turned in to the Clinical Coordinator at the end of each rotation in order to receive a passing grade.**

*\*Syllabi are subject to change*