Midland College  
Syllabus  
2008-2009  
RADT 1411  
Basic Radiographic Procedures  
4 SCH (3-2)

Course Description  
This course includes an introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. Prerequisite: Admission to Radiography Program.

Text, References, and Supplies  


*Each student must purchase 10 brown scantron sheets (form 2052) at the bookstore.  All textbooks are available at the MC Bookstore.

Safety Training:  
Students in the Radiography Program receive annual training in Blood-borne and Airborne pathogens, electrical safety, back safety, hazardous chemicals, latex allergies, use of emergency eye wash stations, infection control, fire and disaster procedures, security and personal safety procedures, and safety requirements of clinical facilities.  Students must provide documentation of current CPR certification, immunizations, and health status.

Course Goals/ Objectives  
Upon completion of this course, the student will be able to:

1. Assess the requisition and the patient to prevent fundamental errors.
2. Critique radiographs for proper identification, labelling, alignment, centering and collimation, and for exposure-related artifacts.
3. Select proper anatomical criteria to evaluate rotation, flexion/extension, tilt/abduction/adduction and beam angulation for three basic types of radiographic views.

4. Demonstrate positioning, including part rotation, flexion/extension, and
tilt/abduction/adduction, correct centering and angulation of the central ray, proper distance and film orientation for:

1. Chest 5. Wrist
2. Abdomen 6. Forearm
3. Urinary System 7. Elbow
4. Hand and digits 8. Humerus

5. On radiographs, identify related anatomy and pathology for:

1. Chest 5. Wrist
2. Abdomen 6. Forearm
3. Urinary System 7. Elbow
4. Hand and digits 8. Humerus

6. Critique the positioning and technical quality on radiographs of the:

1. Chest 5. Wrist
2. Abdomen 6. Forearm
3. Urinary System 7. Elbow
4. Hand and digits 8. Humerus

---

**Student Contributions and Class Policies:**

Students must maintain an average grade of 70% in this course to continue in the radiography program. Attendance and punctuality are essential to your success, and are computed into the final grade. Specific academic policies are attached. They will be strictly applied and it is the student's responsibility to understand them. Reading assignments are also important and should be completed prior to lectures for each unit. Material from reading which is not covered in class may appear on tests.

**Great Student Forms** may be obtained from the instructor to earn additional assignments points throughout the semester. Points are awarded strictly at the discretion of the instructor, and are based upon relevance, clarity, and especially the force of analytical logic and the accuracy of statements made, not on whether the instructor agrees. This gives the instructor a way of measuring both student motivation and critical thinking skills. The rules for using these forms are:

1. The position chosen to critique must be controversial in at least one significant aspect, (there must be substantially different approaches or views on an essential aspect.)
2. Answer only the relevant questions - not all questions on the form need be addressed, they are offered as examples, and the student may add his/her own critical thinking questions.
3. Should two or more students submit identical responses, the instructor has the right to award diminishing points on the basis of when the forms are turned in.
4. Students may submit as many forms as they wish, but points may not be awarded when the above standards are not met.
**Extra Credit:** Students can make academic proposals for extra credit or render service to the program for extra credit in accordance with program policies. The amount of extra credit is at the discretion of the instructor.

**Test Reviews, Study Buddies and Correction Factors:** Students may request or the instructor may offer “study buddy” review sessions outside of class time any time during the semester. These can be useful for help with assignments or preparation for tests, and are especially recommended for test reviews after each test is taken as a way of reinforcing learning. Using item analysis and review, questions on each test may be identified which were overly difficult, vague, confusing or not fully covered in class. Upon reviewing a test during a study buddy session, at the discretion of the instructor, “correction factor” points may be awarded for such questions. Attendance at study buddy sessions is optional; However, *correction factor points will only be awarded for students in attendance at the session when a particular test or assignment is reviewed.*

**Evaluation of activities Students:**

Evaluation of attendance, punctuality, late assignments or tests and extra credit all affect the final grade for this course according to the attached academic policies. All grades are recorded as raw scores until the end of the semester, when the final grade is computed as follows:

- **70%** Unit Tests, Assignments, Labs
- **30%** Final Examination

Adjustments for attendance and extra credit activities

All grading is criterion-referenced (standard percentage), not curved.

**Course Schedule:**

See attached schedule.

**SCANS Information:**

The following SCANS skills are addressed in this course:

5. **TECHNOLOGY:** Works with a variety of technologies
   a. Selects Technology - chooses procedures, tools or equipment including computers and related technologies
   b. Applies Technology to a Task - Understands overall intent and proper procedures for setup and operation of equipment
   c. Maintains and Troubleshoots Equipment - Prevents, identifies, or solves problems with equipment, including computers and other technologies

**Safety Training:** Students receive annual training in blood borne and air borne pathogens, electrical safety, back safety, hazardous chemicals, latex allergies, use of emergency eye wash stations, infection control, fire and disaster procedures, security and personal safety procedures and safety
requirements of clinical facilities.

Students will provide documentation annually of current CPR certification, immunizations and health status prior to going to clinical agencies.

**Instructor**
Mr. Quinn B. Carroll, Assistant Professor

**Information:**
Office: 208 HS
E-Mail: eskimo@midland.cc.tx.us
Office Hours: MWF 1 - 2  Clinical Location: MWF 2 - 3
TR 3 - 4  TR 10 - 11

*Clinical Post Conference: Tuesdays 4:10 Memorial Hosp. Lounge
Health Sciences Dean: Becky Hammack, EdD, RN
Health Sciences Division Secretaries: Ms. Kay Floyd 685-4600
Division Office: 209 DHS Ms. Alma Guyse 685-4601

-Students enrolled in the Radiography Program are welcome to contact Mr. Carroll at any time with questions or problems, including at home. However, making an appointment directly or via the division secretary will ensure the instructor’s availability at a specific time.