

University of Arkansas – Fort Smith
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General Syllabus

RISP 12104 Radiographic Procedures II

Credit Hours: 2

Lecture Hours: 2

Laboratory Hours: 4

Prerequisite: RISP 11102 Radiographic Procedures I

Prerequisite or corequisite: HEAL 14703 Medical Terminology

Corequisites: RISP 12004 Image Production, RISP 12204 Clinical Education II

Effective Catalog: 2019-2020

I. Course Information

A. Catalog Description

A continuation of RISP 11102 Radiographic Procedures I. Designed to provide instruction for anatomical positioning and terminology necessary to perform standard radiographic procedures. Emphasis is given to routine and special projections of the upper extremities, lower extremities, and vertebral column.

B. Additional Information - None

II. Student Learning Outcomes

A. Subject Matter

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

1. List and describe the bony anatomy of the upper extremity, lower extremity and vertebral column.
2. Given drawings and radiographs, locate anatomic structures and landmarks.
3. Explain the rationale for each projection.
4. Explain patient preparation required for each examination.
5. Describe the positioning used to visualize anatomic structures in the upper extremity, lower extremity and vertebral column.
6. List and identify the central ray location and identify the extent of field necessary for each projection.
7. Explain the protective measures that should be taken for each projection.
8. Recommend the technical factors for producing an acceptable radiograph for each projection.
9. State patient instructions for each projection.
10. Given radiographs, evaluate positioning and technical factors for radiographs of

the upper extremity, lower extremity and vertebral column.

11. Describe modifications for procedures for atypical or impaired patients to better demonstrate the anatomic area of interest.

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking Skills: Students will use analytical/critical thinking skills to draw conclusions and/or solve problems. Students will think critically to reach viable solutions to a problem and to justify those solutions to produce radiographs of the extremities and vertebral column.

Ethical Decision Making

Students will model ethical-decision making processes. Students will apply ethical concepts and rules to determine viable alternatives in any given situation encountered while performing examination of extremities and vertebral column.

III. Major Course Topics

- A. Anatomy and Routine Positioning of Upper Limb and Shoulder Girdle
- B. Alternate Positions/Projections of the Upper Limb and Shoulder Girdle
- C. Anatomy and Routine Positioning of the Lower Limb and Pelvis
- D. Alternate Positions/Projections of the Lower Extremities and Pelvis
- E. Anatomy and Routine Positioning of the Vertebral Column
- F. Alternate Positions/Projections of the Vertebral Column