

University of Arkansas – Fort Smith
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General Syllabus

RADT 2412 Radiographic Procedures IV

Credit Hours: 2

Lecture Hours: 1

Laboratory Hours: 2

Prerequisite: RADT 1312 Radiographic Procedures III

Corequisites: RADT 2425 Clinical Education IV and RADT 2432 Principles of Radiation Biology/Protection

Effective Catalog: 2019-2020

I. Course Information

A. Catalog Description

Provide the knowledge and skills necessary to perform standard and special procedures in radiography. Instruction is concentrated on exams of the skull and facial bones. Opportunity to apply knowledge will be available in both laboratory and clinical settings.

B. Additional Information – None

II. Student Learning Outcomes

A. Subject Matter

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

1. Given radiographs, locate anatomic structures and landmarks.
2. Describe the positioning used to visualize anatomic structures of the skull, facial bones, paranasal sinuses, optic foramen, mandible and mastoids.
3. List and identify the central ray location and identify the extent of field necessary for each projection.
4. Recommend the technical factors for producing an acceptable radiograph.
5. State patient instructions for each projection.
6. Given radiographs, evaluate positioning and technical factors.
7. 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 quality images of the cranium.

Communication Skills (written and oral)

Students will communicate proficiently. Students will effectively communicate in a variety of ways with fellow students and faculty to relay appropriate clinical information for examinations of the cranium.

III. Major Course Topics

- A. Anatomy and Positioning of the Skull
- B. Anatomy and Positioning of the Facial Bones
- C. Anatomy and Positioning of the Paranasal Sinuses
- D. Anatomy and Positioning of the Orbit
- E. Anatomy and Positioning of the Mandible and TMJ
- F. Anatomy and Positioning of the Mastoids