

**RADT 61A Course Outline as of Fall 2007****CATALOG INFORMATION**

Dept and Nbr: RADT 61A Title: RAD POSITIONING 1

Full Title: Radiographic Positioning 1

Last Reviewed: 4/24/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	4.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	4.00	Lab Scheduled	3.00	17	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	6.00		Contact Total	105.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 210.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

Radiographic anatomy, positioning, and image analysis. Instruction includes lecture and positioning demonstrations. Radiographic procedures of the chest, abdomen, extremities, hips, and pelvis. Radiographic image analysis for diagnostic quality.

**Prerequisites/Corequisites:**

Concurrent enrollment in RADT 60, RADT 61AL, RADT 64, and RADT 64AL.

**Recommended Preparation:****Limits on Enrollment:**

Admission to the Radiologic Technology program or possession of licensure as a radiologic technologist.

**Schedule of Classes Information:**

Description: Radiographic anatomy, positioning, and image analysis. Instruction includes lecture and positioning demonstrations. Radiographic procedures of the chest, abdomen, extremities, hips, and pelvis. Radiographic image analysis for diagnostic quality. (Grade Only)

Prerequisites/Corequisites: Concurrent enrollment in RADT 60, RADT 61AL, RADT 64, and RADT 64AL.

Recommended:

Limits on Enrollment: Admission to the Radiologic Technology program or possession of licensure as a radiologic technologist.

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective: Fall 1981	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

At the completion of this course students will be able to:

1. Perform correct positioning for radiography of the chest, abdomen, upper and lower extremities, pelvis, hip, shoulder, femur, knee, and ankle.
2. Correctly manipulate the radiographic equipment and accessories.
3. Demonstrate observance of safety practices.
4. Practice safe radiation protection measures for patients, self, and others.
5. When anatomical body parts are named, identify the image quality of the body part on images.
6. Demonstrate proper body mechanics.

### **Topics and Scope:**

1. Principles of radiographic positioning of chest, abdomen, upper extremities, shoulder girdle, humerus, wrist, pelvis, hip, femur, knee, tibia, and lower extremities.
2. Principles of safety and radiation protection and related equipment:
  - A. Safety and radiation protection to patient.
  - B. Safety and radiation protection to technologist, physician, and ancillary personnel.
  - C. Use of anti-scatter grid, cassettes, and accessories.
  - D. Comfort measures for the patient.
3. Image quality analysis.
  - A. Technical and photographic critiques.
  - B. Positioning mistakes.

- C. Pathology and fracture identification.
  - D. Establishing the criteria for acceptable diagnostic radiographs.
4. Demonstrate proper body mechanics.

### Assignment:

1. Reading and study of 10 - 15 anatomy and positioning modules.
2. Completion of 6 - 8 unit assessments.
3. Completion of 4 - 5 applied medical terminology definitions.
4. Completion of 6 - 8 image analyses.
5. Completion of positioning check-offs (not graded).
6. Completion of 4 - 6 quizzes.
7. Completion of a final practical exam.

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Term papers, Image analyses, applied med defs, unit assessments

Writing  
20 - 45%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Performance exams, Practical final exam

Skill Demonstrations  
10 - 30%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, Quizzes

Exams  
40 - 60%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation

Other Category  
5 - 10%

### Representative Textbooks and Materials:

- MERRILL'S ATLAS OF RADIOGRAPHIC POSITIONS AND RADIOGRAPHIC PROCEDURES  
by P. Ballinger, 2005
- Instructor prepared materials.

