

**RADT 60 Course Outline as of Fall 1981****CATALOG INFORMATION**

Dept and Nbr: RADT 60 Title: INTRO TO RAD TECH

Full Title: Introduction to Radiologic Technology

Last Reviewed: 4/24/2023

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

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

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:**

Introduction to the field of Radiologic Technology, including field trips to major Radiology departments.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: Survey of the field of radiology, including field trips to radiology departments. Currently enrolled RT students must complete both sections. (Grade Only)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

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

1. Describe the general use of X-ray radiation in medical and diagnostic purposes.
2. Describe the personal traits and characteristics necessary for the radiologic technologist in the work setting.
3. List the major equipment and accessories used in Radiology Department and its darkroom.
4. Define and discuss professionalism and ethics as applied to the radiologic technologist.
5. Identify film artifacts.
6. Define the process by which x-ray radiation is produced.
7. List the technical factors used in the production of x-rays and the resulting effects on radiographic quality.
8. Describe the basic rules of radiation protection.

### **Topics and Scope:**

1. History of Radiology and its Scientists.
  - A. Discovery of vacuum tubes and X-Ray radiation.
  - B. Major developments in the field of Radiology.
2. Principles of X-Ray Production and its Medical Use.
  - A. Primary and secondary circuitry.
  - B. X-Ray tube construction.
  - C. X-Ray use in medicine. D. Basic Radiation Protection.
3. Principles of Equipment used in Radiology and its Darkroom.
  - A. Demonstration of equipment.
  - B. Tour of hospital departments.
4. Hospital, Department, National, State, and Professional Organizations.
  - A. Organizational charts.
  - B. Relationship of hierarchy and a radiologic technologist.
5. Professionalism and Medico - Legal Ethics.

- A. American Registry of Radiologic Technologists Code of Ethics.
- B. Patient Bills of Rights.
- 6. Common artifacts on radiographs (technical and anatomical).
- 7. Students' oral presentations.

**Assignment:**

- 1. Reading of chapter prior to lecture (20 pages each).
- 2. Completion of 11 summary cards to depict a subject in Radiology.
- 3. Delivery of a 10 minute oral report on a major issue related to Radiology.
- 4. Recognition of artifacts on seven radiographs as demonstrated on Film Artifacts Form.
- 5. Completion of eight quizzes (20 questions each).
- 6. Presentation of a one-page essay on the department tour.

**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.

Written homework, Reading reports, Term papers, 11 SUM CARDS; ORAL REP; ESSAY

Writing  
20 - 40%

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

Quizzes, 8 QUIZZES

Problem solving  
20 - 40%

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

None

Skill Demonstrations  
0 - 0%

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

Multiple choice, True/false, 50-QUESTION EXAM

Exams  
30 - 40%

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

15 SUMMARY CARDS; 10-MINUTE ORAL REPORT; 1-PAGE ESSAY ON HOSPITAL TOUR; IDENTIFICATION OF ARTIFACTS ON 7 RADIOGRAPHS.

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

