

**RADT 64 Course Outline as of Fall 2018****CATALOG INFORMATION**

Dept and Nbr: RADT 64 Title: PATIENTCARE IN RADIOLOGY

Full Title: Patient Care in Radiology

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:**

This course provides students with the principles of patient care, including consideration for the physical and psychological needs of the patient and family; routine and emergency patient care procedures; infection control; and the role of the radiologic technologist in patient education.

**Prerequisites/Corequisites:**

Concurrent Enrollment in RADT 60, RADT 61A, RADT 71A (or formerly RADT 61.1AL), and RADT 64L

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

Acceptance in program

**Schedule of Classes Information:**

Description: This course provides students with the principles of patient care, including consideration for the physical and psychological needs of the patient and family; routine and emergency patient care procedures; infection control; and the role of the radiologic technologist in patient education. (Grade Only)

Prerequisites/Corequisites: Concurrent Enrollment in RADT 60, RADT 61A, RADT 71A (or

formerly RADT 61.1AL), and RADT 64L

Recommended:

Limits on Enrollment: Acceptance in program

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:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. List the responsibilities and scope of practice of a radiologic technologist.
2. Define infection control as put in practice in Radiology.
3. Describe the difference between medical and surgical asepsis and their practices.

### **Objectives:**

By the end of this course students will be able to:

1. List responsibilities of a health care facility and the radiographer.
2. Describe and demonstrate good principles of body mechanics, patient transfer and restraint.
3. Describe the administration of parenteral fluids.
4. Discuss procedures for assuring security of patient records.
5. List ethical, emotional, and physical aspects of dying and support mechanisms available to the terminally ill patients.
6. Define medical and surgical asepsis, antiseptics, disinfectants, sterile/clean/contaminated areas.
7. Describe methods of sterilization.
8. Define infectious pathogens, communicable diseases, and hospital-acquired or associated infections.
9. Describe the practice of universal precautions, isolation procedures, and infection control.
10. Discuss psychological considerations for management of patients.
11. Identify symptoms and treatment of cardiac arrest, anaphylactic shock, convulsions, seizure, hemorrhage, apnea, aspiration, fractures, diabetic coma, and insulin shock.
12. Discuss the use of medical emergency equipment and supplies.
13. Define and identify categories of contrast media.
14. Describe techniques for administration of contrast media.
15. Define communication modes and identify communication problems and their intervention.

16. Recognize various drugs and related use in Radiology.
17. List the contents of an emergency drug box.

## **Topics and Scope:**

### **I. Principles of Patient Care in Medical Imaging**

- A. Effective communication
- B. Psychology considerations (death & factors affecting emotional responses)
- C. Body mechanics
- D. Medical and surgical asepsis
- E. Administration of barium, medications and contrast media
- F. Infection control
- G. Isolation techniques
- H. Vital signs assessment
- I. Safe tube handling
- J. Urinary collection
- K. Fluid administration
- L. Oxygen administration
- M. Standard precautions
- N. Patient Education
- O. Developing professional attitudes
- P. Patient support services
- Q. Patient identification methods
- R. Normal lab values
- S. Implanted devices
- T. Pain assessment

### **II. Medico-legal Aspects of Patient Care in Medical Imaging**

- A. Patient as consumer
- B. Organization of hospital and Radiology department
- C. Medical records and images
- D. Informed and implied consents

### **III. Radiation Protection**

- A. Patients
- B. Self
- C. Others

### **IV. Pharmacology in Medical Imaging**

- A. Contrast media
- B. Medication
- C. Injection modes
- D. Crash cart (emergency drug box)

### **V. Documentation**

- A. Health Insurance Portability and Accountability Act (HIPAA)
- B. Patient's rights

### **VI. Symptoms of and Treatment**

- A. Cardiac arrest
- B. Anaphylactic shock
- C. Convulsions
- D. Seizure
- E. Hemorrhage
- F. Aspiration
- G. Fractures
- H. Diabetes

- I. Respiratory failure
- J. Airway obstruction
- K. Cerebral vascular accident
- VII. Modes of Communication
  - A. Verbal
  - B. Non-verbal
  - C. Problems
  - D. Intervention
- VIII. Occupational Health and Safety Administration
  - A. Environmental safety
  - B. Magnetic Resonance (MR) safety
- IX. Trauma
  - A. Head injuries
  - B. Spinal injuries
  - C. Wounds
  - D. Burns
- X. Mobile and Surgical Radiography
  - A. Neonatal
  - B. Orthopedic
  - C. Surgical

**Assignment:**

1. Weekly chapter readings (15-20 pages/week)
2. Presentation of a report on OSHA implications
3. Quizzes (5-7), one mid-term, one final 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.

None, This is a degree applicable course but assessment tools based on writing are not included because this course includes essay exams that fulfil the writing component of the course.

Writing  
0 - 0%

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

OSHA Report

Problem solving  
10 - 15%

**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.

Quizzes, mid-term, final exam

Exams  
75 - 85%

**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:**

Patient Care in Radiography. 9th ed. Ehrlich, Ruth and Coakes, Dawn. Elsevier. 2016

Instructor prepared materials