

**RADT 66 Course Outline as of Fall 1981****CATALOG INFORMATION**

Dept and Nbr: RADT 66 Title: SPECIAL PROCEDURES

Full Title: Special Procedures

Last Reviewed: 9/25/2023

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	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:**

Lecture/demonstration of radiographic special procedures and specialized imaging modalities. Students draw upon principles of anatomy and physiology and apply these in theoretical discussions and practice in problems with positioning.

**Prerequisites/Corequisites:**

Admission to the Radiologic Technology Program or possession of licensure as a Radiologic Technologist; completion of RT 63B.

**Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: Lectures/demonstrations of radiographic special procedures & specialized modalities. (Grade Only)

Prerequisites/Corequisites: Admission to the Radiologic Technology Program or possession of licensure as a Radiologic Technologist; completion of RT 63B.

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:**

The students will:

1. List steps of operation and all principles of a medical fluoroscopic imaging system.
2. Describe the direct correlation between the patient radiation dose and medical fluoroscopic imaging system.
3. List all principles of radiation protection to self, patients, and other personnel.
4. List all sequential operations of all major radiographic equipment in a typical angiocardigraphic suite.
5. Describe the anatomy and physiology of all viscera, vascular system, lymphatic system, lungs and heart and brain through quizzes and final examination.
6. List all routine angiographic procedures.
7. Complete film critique on radiographs of all common angiographic examinations.

**Topics and Scope:**

1. Principles and operation of fluoroscopic imaging system.
  - A. Television.
  - B. Vidicon, plumbicon, orthicon.
  - C. Image intensifier.
  - D. Video recorder.
  - E. Cine camera.
  - F. High resolution radiographic tube.
2. Relationship of radiation dose to the fluoroscopic imaging system.
  - A. Primary radiation.
  - B. Secondary and scatter radiation.

- C. Skin dose.
- 3. Types of angiographic equipment.
  - A. Operational procedures.
  - B. Safety procedures.
- 4. Anatomy and physiology of:
  - A. Viscera.
  - B. Arterial system.
  - C. Venous system.
  - D. Lymphatic system.
  - E. Lungs and heart.
  - F. Brain.
- 5. Principles of patient safety.
  - A. Patients with spinal cord injury.
  - B. Patients with head injury.
  - C. Patients with universal precautions.
  - D. Patients with multiple injury.

**Assignment:**

- 1. Weekly chapter readings, 15 pages each, 7 chapters.

**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	Writing 20 - 40%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Quizzes	Problem solving 5 - 10%
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**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%
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**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice	Exams 40 - 60%
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**Other:** Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%
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**Representative Textbooks and Materials:**

FUNDAMENTALS OF SPECIAL RADIOGRAPHIC PROCEDURES, current edition.

RADIOLOGIC PHYSICS FOR TECHNOLOGISTS, current edition.