

# Mercy Hospital St Louis School of Radiologic Technology

## Student Handbook 2024

<b>INTRODUCTION</b> .....	2
<b>The Field of Radiography</b> .....	2
<b>Mercy Hospital St. Louis</b> .....	2
<b>JRCERT</b> .....	3
<b>The Profession</b> .....	4
<b>Philosophy</b> .....	5
<b>SCHOOL OF RADIOLOGIC TECHNOLOGY</b> .....	6
<b>Admission</b> .....	6
<b>Enrollment</b> .....	7
<b>CLINICAL EDUCATION</b> .....	8
<b>Overview</b> .....	8
<b>Clinical Competency Evaluation System</b> .....	9
<b>Clinical Procedure Performance Objective</b> .....	10
<b>Student Responsibilities</b> .....	11
<b>Clinical Grade</b> .....	12
<b>Competency Based Evaluation System</b> .....	13
<b>Clinical Prerequisites</b> .....	14
<b>Clinical Evaluations</b> .....	15
<b>Monthly Clinical Progress Report</b> .....	16
<b>Clinical Competency Record</b> .....	17
<b>DIDACTIC EDUCATION</b> .....	18
<b>Prerequisites for didactic courses</b> .....	18
<b>Curriculum/Course description</b> .....	19
<b>Student responsibilities</b> .....	21
<b>Didactic quarterly progress report</b> .....	22
<b>Didactic semester grade report</b> .....	23
<b>GRADUATION REQUIREMENTS</b> .....	24
<b>Program completion</b> .....	24
<b>Exit Evaluation</b> .....	25
<b>ADMINISTRATIVE POLICIES</b> .....	26
<b>Policy and procedure manual</b> .....	26
<b>Mission Statement</b> .....	26
<b>Program Goals and Student Learning Outcomes</b> .....	26
<b>Program effectiveness data</b> .....	27
<b>JRCERT standards</b> .....	28

## INTRODUCTION

### The Field of Radiography

A radiologic technologist, also known as radiographer, is a professional in the medical field specifically trained to produce various types of diagnostic radiographic images. The radiographer renders an important service to the medical profession and contributes to the welfare of humanity by providing personal services to the community.

A radiograph, commonly labeled an “x-ray,” is the ultimate product of the radiographer’s work. The radiograph serves as a diagnostic tool for the physician. Accuracy and quality are imperative in attaining an optimum diagnostic study.

As with every health care professional, the radiographer’s main objective is to provide excellent patient care and to maintain high standards of quality. Such an individual must be personable, flexible to change, physically agile, understanding, compassionate, and ever mindful of his/her purpose- patient care.

### Mercy Hospital St. Louis

615 South New Ballas Road

St. Louis, MO 63141

314-251-6000

[www.mercy.net](http://www.mercy.net)

With a heritage of healing that reaches back more than 150 years, Mercy Hospital St. Louis, continues to provide distinctive services offered by a team that cares for people, not illnesses. We are the only Level I Trauma Center in St. Louis County. Mercy Hospital St. Louis sponsors a 24-month program for Radiographers.

### Program Officials

School Office 314-251-6933 x 21923

James Ibaviosa, Program Director 314-251-6203

Jim Fletcher, Clinical Coordinator 314-251-7699

## JRCERT

The school is accredited by the Joint Review Committee on Education in Radiologic Technology. Any individual associated with the program has the right to submit allegations if there is reason to believe that the program has acted contrary to JRCERT accreditation standards and/or JRCERT polices. Additionally, an individual has the right to submit allegations against the program if he/she believes that conditions at the program appear to jeopardize the quality of instruction or the general welfare of its students.

JRCERT

20 N. Wacker Drive, Suite 2850

Chicago, IL 60606-3182

Phone (312)704-5300

mail@jrcert.org

www.JRCERT.org

Current Accreditation Award: 8 Years

Next Scheduled Review: 02/01/2027

## The Profession

The profession of radiography requires the ability to provide appropriate health care services. Radiographers are highly skilled professionals qualified by education to perform imaging examinations and accompanying responsibilities at the request of physicians qualified to prescribe and/or perform radiologic procedures. The radiographer is able to:

- Apply knowledge of anatomy, physiology, positioning and radiographic techniques to accurately demonstrate anatomical structures on a radiograph or other imaging receptor.
- Determine exposure factors to achieve optimum radiographic techniques with minimum radiation exposure to the patient.
- Evaluate radiographic images for appropriate positioning and image quality.
- Apply the principles of radiation protection to the patient, self and others.
- Provide patient care and comfort.
- Recognize emergency patient conditions and initiate lifesaving first aid and basic life support procedures.
- Detect equipment malfunctions, report same to proper authority, and know the safe limits of equipment operation.
- Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
- Participate in radiographic quality assurance programs.
- Provide patient/public education related to radiologic procedures and radiation safety/protection.

## Philosophy

The Radiography Program is designed to provide the Radiologic Health Team with a member who, under the supervision of a Radiologist, uses ionizing radiation as an investigative function, which contributes to the diagnosis of disease and injury.

The student will develop technical and social skills through active participation in an organized sequence of classroom, laboratory, and clinical experiences provided in the curriculum.

The student will perform radiography with the skill and knowledge of total patient care appropriate to radiology and effective measures of radiation protection.

The technical abilities of the Radiographer will enable the health team to improve community health services and provide upward mobility for the individual's career development.

## SCHOOL OF RADIOLOGIC TECHNOLOGY

### Admission

It is the policy of Mercy Hospital St. Louis School of Radiologic Technology to recruit applicants for admission without regard to race, color, creed, national origin, religion, gender, age, or disability except where such condition is bona fide occupational qualification for the field of Radiologic Technology.

Requirements prior to applying:

1. Academic Degree
  - a. Associate's degree or better **OR**
  - b. Enrollment in one of our affiliate associate's/bachelor's degree programs
2. Prerequisite courses
  - a. Mathematics/Logical reasoning  
**College Algebra (Preferred)**
  - b. Communication  
**English/Speech (Preferred)**

*Suggested prerequisite courses:*

Medical Terminology  
Anatomy & Physiology  
Biology  
Physics

A minimum 4-hour job shadow in a Hospital radiology department is also required. Arrangements can generally be made through a facility of your choice. We offer these at our facility M-F 7AM-3PM. <https://www.mercy.net/forms/mercy-shadow-observation-experience/>

A maximum of eight students are selected into the program each year. Should the applicant be accepted to enter the School of Radiologic Technology, the student must pass the routine physical, drug testing and background check given free of charge by Mercy. The student must be able to perform all required technical and physical standards of a student in the Radiologic Technology Program.

## Enrollment/How to Apply

From July through March, completed applications, transcripts, personal or professional references will be accepted for enrollment in the class beginning the following July. A \$35 application fee must be included.

The top applicants will be eligible for interviews based on transcripts, applications and ACT/standardized testing scores. After interviews have been completed, the Admissions Committee will again review each applicant's file and the top candidates will be selected. Letters of acceptance or denial will then be mailed. A \$100 enrollment deposit is required upon acceptance and will be applied toward Year I tuition.

Because of limited enrollment capacity, the Program must realistically offer few student positions. Therefore, should an applicant decide to accept student position or terminate consideration of the application, he/she is expected to notify the School of Radiologic Technology in writing of such action immediately.

An applicant who provides written notice of cancellation within three days (excluding Saturday, Sunday, and federal and state holidays) of submitting application fee or enrollment deposit is entitled to a refund of all monies paid. If notice is not received as stated, the application fee/enrollment deposit then becomes non-refundable.

To apply Submit by March 1:

1. Completed Application
2. \$35 application fee
3. Three reference letters
4. Transcripts (include ACT/placement testing if applicable)
5. Job shadow verification

Mail to:

School of Radiologic Technology  
Mercy Hospital St. Louis  
615 South New Ballas Road  
St. Louis, MO 63141

## CLINICAL EDUCATION

### Overview

Clinical education for the radiology student consists of applying what has been learned in the classroom to the clinical setting.

To be successful in clinical education, a student must have been successful (made an 85% or better) in previous academic or clinical efforts. Additionally, in any medical service assignment, it is imperative that providers at all levels be proficient in basic life-saving techniques. Principles of body mechanics are also very important to the individual student in his/her clinical practice in order to avoid injury.

Assignment of students to “*active*” clinical education areas are made by the school office. These assignments provide students the volume and variety of clinical experiences to successfully progress through the program.

Daily assignments will be posted

Students will be assigned approximately 30 hrs/wk in clinical education areas.

The reporting times for clinical education assignments vary:

7:00AM – 3:00PM

7:30AM – 3:00PM

8:00AM – 3:30PM

Note: Any paid employment of a student in clinical radiography is a separate entity from the educational phase of the program and, as such has no bearing on the structured clinical experience.

The school office will keep a record of absence and tardiness. This will be made part of the clinical grade. If a student must be absent from clinical assignments, he/she must notify a School Official. If the program personnel cannot be reached, the clinical supervisor must be notified. In either instance, the student must state the reason for the absence.

Any violation of the absenteeism and tardiness policy may lead to student counseling. The clinical instructor(s) will be responsible for keeping attendance records current. The records will be used to determine a student’s clinical hours.

Students are subject to all rules and regulations of the Medical Center, both institutional and departmental.

## Clinical Competency Evaluation System

The responsibilities of a radiographer have grown in complexity with the development of more sophisticated procedures and equipment in the medical sciences. It is essential that the Medical Center provide the best possible educational experiences to all students. During the clinical experience, students must have the opportunity to perform all routine types of radiographic procedures. Only in this manner will they be prepared for entry into the profession.

With the Medical Center responsible for the final student performance, we feel there must be a competency-based curriculum, both academic and clinical. Efforts have been made to develop a clinical evaluation system whereby students may progress through clinical education with their strengths and weaknesses identified.

Competency-based evaluation is a means of checking the progression rate of students during their education by determining whether or not they are able to meet specified objectives thus demonstrating proficiency. Students' cognitive knowledge skills are directly evaluated in the classroom and indirectly evaluated throughout their educational experience. Their psychomotor application skills are evaluated in the energized laboratory at the Medical Center. In order to properly evaluate students' psychomotor skills, it is essential to determine the level of performance ability. Only through the use of a competency-based evaluation system can we determine the proficiency level a student has achieved.

It is very important that knowledge and skills be reinforced and evaluated in the clinical setting to maximize the students' clinical effectiveness. It is the program's role to provide clinical experiences designed to bridge the gap between theory and application. This can only be accomplished through quality supervised clinical experiences in the Medical Center.

The clinical portion of the radiography program is an integral part of the total curriculum. All persons involved with the program must thoroughly understand the structure and function of the clinical evaluation system for the students' total education experience to be effective.

## Clinical Procedure Performance Objective

The student must be able to perform each of the items under listed below:

### I. Clinical Performance Skills

- A. Patient Care
- B. Identification (Evaluation of requisition)
- C. Positioning (Physical facilities readiness)
- D. Equipment Manipulation
- E. Exposure Factors
- F. Digital imaging
- G. Radiation Protection
- H. Injectable media and procedures
- I. Image Evaluation
- J. General
- K. Fluoroscopic Skills
- L. Portable and Surgery Skills

### II. Professional Behavior Traits

- A. Compassion
- B. Interest and Preparation
- C. Cooperation
- D. Motivation
- E. Dependability
- F. Poise and Self-Discipline
- G. Maturity and Judgment
- H. Appearance

## Student Responsibilities

### CLINICAL RESPONSIBILITIES

- Report promptly at assigned time of duty
- Report fit for clinical assignments
- Report in proper attire
- Report promptly to area of clinical assignment
- Remain in assigned area during all procedures
- Attend and assist clinical staff with each procedure; remain until procedure is complete
- Forfeit all activities in the provision of excellent patient care
- Perform procedures which have been practically demonstrated in class as assigned/requested under direct supervision of qualified staff.
- Attend to patients at all time while on examination table.
- Demonstrate adequate respect for patients, physicians, staff, peers
- Maintain at least an 85% average in clinical and competency evaluation
- Report all complaints to school official on a timely basis

## Clinical Grade

The student radiographer's clinical grade is based on the following areas:

1. ATTENDANCE	10%
2. DRESS CODE (uniform, markers, Radiation badge and name badge)	10%
3. ROOM ROTATION OBJECTIVES (semester 1 only)	10%
4. EVALUATION OF CLINICAL PERFORMANCE (minimum of 10 per quarter)	20%
5. STAFF TECHNOLOGISTS EVALUATION (minimum of 10 per quarter)	10%
6. COMPETENCY-BASED EVALUATIONS (semester II III IV - 50%)	40%

## Competency Based Evaluation System

The student radiographer must complete the following sequence of events, in order, before achieving Final Clearance in any specific exam.

1. Didactic instruction and demonstration in the energized lab (observation)
2. Observation of procedures by a staff technologist in the clinical area (observation)
3. Laboratory test on a mock patient
4. Performance of the required number of exams under the direct supervision and instruction of the clinical preceptor or technologist within specified semester (direct supervision)
5. Exhibition of one set of images from each exam (done under direct supervision) by a clinical preceptor or staff technologist and is evaluated by the clinical preceptor. A grade of 85% or above must be achieved on the image evaluation to perform under indirect supervision. If grade is below an 85%, the student must remain under direct supervision for that procedure until competency has been achieved. If the student has not achieved passing score on the next attempt, the student must return to step 1.
6. Performance of the required number of exams under indirect supervision.
7. Re-competency evaluations at a rate of ten per quarter by staff technologist or clinical preceptor(s).

## Clinical Prerequisites

- Must complete Program Orientation prior to rotation in clinical area and have CPR certification.
- Students must complete Radiation Protection and MRI Safety Inservice Programs prior to clinical rotations.
- Junior objectives must be completed prior to Special rotations.
- Instructional In-services must be given prior to Special rotations.
- Students must complete the Medical Center Orientation within the first month of the program. (This includes fire/tornado; infection control; disaster plan and hazardous waste in-services)

## Clinical Evaluations

- Ten evaluations are required to be turned in by each quarter deadline. For each evaluation not turned in, one (1) point will be deducted from the clinical grade.
- The student radiographer is responsible for submitting ten evaluations, each from a different staff technologist that can effectively and fully evaluate the student radiographer.
- Each evaluation must be signed and dated by the evaluating staff technologist and the student technologist and the student radiographer. The completed evaluations will be kept on file in the School Office.
- The clinical evaluations will be 20% of the clinical grade.

## Monthly Clinical Progress Report

Name: \_\_\_\_\_ Month: \_\_\_\_\_

### Evaluations

Clinical Performance/Re-comps \_\_\_\_\_ (20/Semester)

Weekly Review \_\_\_\_\_ (20/Semester)

### Room Objectives

1	2	4	5	6	8	ED	Port	Trans	MDB 1	MDB 2	Front Ofc/file	Rounds	Peds

### Special Rotations

		Spine		Cancer		
OR	CT	center	Venip	center	Trauma	Ortho

Comments:

## Clinical Competency Record

Radiographic Procedure		M/E	O	D	I	R	Radiographic Procedure		M/E	O	D	I	R
<b>CHEST AND THORAX</b>							<b>SPINE AND PELVIS</b>						
Chest routine	5	M					Cervical Spine	3	M				
Chest AP (wc/stretcher)	3	M					Thoracic Spine	1	M				
Ribs	2	M					Lumbar Spine	5	M				
Chest Lateral Decub	1	E					Cross-table lateral spine	1	M				
Sternum	1	E					Pelvis	5	M				
Upper airway (ST neck)	1	E					Hip	5	M				
<b>UPPER EXTREMITY</b>							x-table lateral hip						
Thumb or Finger	2	M					Sacrum and/or Coccyx	1	E				
Hand	4	M					Scoliosis Series	1	E				
Wrist	4	M					Sacroiliac Joints	1	E				
Forearm	2	M					<b>ABDOMEN</b>						
Elbow	4	M					Abdomen Supine (KUB)	5	M				
Humerus	2	M					Abdomen Upright	5	M				
Shoulder	4	M					Abdomen Decubitus	2	E				
Trauma Shoulder (Y-view, Axillary, Transthoracic)	3	M					Intravenous Urography	2	E				
Clavicle	2	M					<b>FLUOROSCOPY STUDIES - Candidates must select either UGI or Contrast Enema plus one other elective procedure from this section</b>						
Scapula	1	E					UGI	3	E				
AC Joints	1	E					Contrast enema (S or D)	2	E				
Trauma: Upper Extremity (non-shoulder)*	1	M					Small Bowel Series	3	E				
<b>LOWER EXTREMITY</b>							Esophagus/Barium Swallow						
Toes	1	E					Cystography/ Cystourethrography	2	E				
Foot	4	M					ERCP	1	E				
Ankle	4	M					Myelography	4	E				
Knee	4	M					Arthrography	3	E				
Tibia-Fibula	2	M					Hysterosalpingography	4	E				
Femur	2	M					<b>MOBILE C-ARM STUDIES</b>						
Trauma: Lower Extremity*	1	M					C-arm procedure (Requiring manipulation to obtain more than one projection)	3	M				
Patella	4	E					Surgical C-arm procedure	3	M				
Calcaneus (Os Calcis)	1	E					<b>MOBILE STUDIES</b>						
<b>CRANIUM- Candidates must select one elective from this section</b>							Chest						
Skull	1	E					Abdomen	5	M				
Paranasal Sinuses	1	E					Orthopedic	2	M				
Facial Bones	1	E					<b>PEDIATRICS (6 or younger)</b>						
Orbits	1	E					Chest Routine (2 views)	5	M				
Zygomatic Arches	1	E					Upper Extremity	2	E				
Nasal Bones	1	E					Lower Extremity	2	E				
Mandible (Panorex)	1	E					Abdomen	3	E				
TMJ Joints	1	E					Mobile Study	2	E				
							<b>GERIATRIC PATIENT (65 and older and physically or cognitively impaired)</b>						
							Chest Routine						
							Upper Extremity						
							Lower Extremity						

\*Trauma is considered a serious injury or shock to the body and requires modifications in positioning

## DIDACTIC EDUCATION

### Prerequisites for didactic courses

**Orientation:** Entry level prerequisites

**A & P:** High School level Biology

**Introduction to Radiologic Technology:** Entry level prerequisites

**Medical Terminology:** entry level prerequisites

**Patient Care and Management:** Entry level prerequisites

**Radiation Protection:** Entry level prerequisite and attendance at Radiation Safety Lecture

**Skeletal Positioning and Procedures:** Orientation and entry level prerequisites

**Visceral Positioning and Procedures:** Orientation and entry level prerequisites

**Radiation Biology:** Radiation Protection

**Principles of Radiographic Exposure:** General Mathematics

**Skull Positioning and Procedures:** Skeletal and Visceral Positioning and Procedures

**Special Procedures:** Skeletal and Visceral Positioning and Procedures

**Evaluating Radiographs:** Visceral, Skeletal and Skull Positioning and Procedures

**Radiation Physics:** Radiation Biology

**Radiographic Pathology:** A & P, Medical Terminology

**Pharmacology:** Patient Care and Management

**Ethics:** Patient Care and Management, Introduction to Radiologic Technology

**Introduction to Computer Literacy:** General Math, POE

**Quality Assurance:** Radiation Protection, Principles of Exposure

## Curriculum/Course description

### **Introduction to Radiologic Technology** Sem I (16 clock hours/1 credit hour)

This course is designed to introduce the student to the basic aspects of the department of Imaging, radiologic technology, and the health care system in general. The basic principles of radiation protection are introduced. The student should gain a better understanding of the structure and function of agencies through which medical services are delivered.

### **Methods of Patient Care** Sem I,II,III (Patient Care and Management) (48 clock hours/3 credit hours)

This course is designed to prepare the student radiographer to deal with patients, regardless of their health condition, in a manner that does not cause additional injury or discomfort to the patient, or hinder the patient's recovery. This course also includes vital signs, EKG's and Venipuncture.

### **Medical Ethics and Law** Sem IV (16 clock hours/1 credit hour)

This course is designed to help the student radiographer understand how to deal with confidential information and the interpersonal relationships, or interaction, with patients and other health care team members. In addition, attention is given to medicolegal considerations, as well as to professional guidelines and codes of ethics.

### **Medical Terminology** Sem I,II (32 clock hours/2 credit hours)

This course is designed to prepare the student radiographer to work effectively in radiology, to understand the written and spoken language of medicine, and incorporates many uncommon words, meanings, and symbols.

### **Principles of Radiation Protection** Sem I (32 clock hours/2 credit hours)

This course is designed for the student radiographer to understand how to use ionizing radiation in a safe and prudent manner. Patients, as well as radiographers and co-workers, must be protected from unnecessary radiation. Therefore, radiographer must know how exposure factors affect radiation dose, what the dose limits are, and the methods of exposure monitoring. The objective is to practice "as low as reasonably achievable: (ALARA) concept in diagnostic radiology.

### **Principles of Radiation Biology** Sem II (32 clock hours/2 credit hours)

This course is designed to instruct the student radiographer in the hazardous effect of ionizing radiation on living tissue. The student radiographer must be thoroughly familiar with the reactions that occur when a single living cell or the entire organism is irradiated.

### **Radiation Physics** Sem III, IV (64 clock hours/4 credit hours)

This course is designed to help the student radiographer understand how radiation works and interaction of radiation with matter. This course concentrates on basic information about the physical properties of radiation, how it is produced, how it is measured, and how it is used in the

medical environment. Included is information about electrostatics, electrical safety, x-ray tubes and transformer and x-ray circuits and equipment.

**Radiographic Procedures** Sem I,II,III,IV Skeletal, Visceral, Head and Neck, and Special Procedures (128 clock hours/8 credit hours)

This course is designed to educate the student radiographer in performing radiographic procedures ranging from simple radiographic imaging to the more complex requiring contrast media, special radiographic equipment, and accessory materials.

**Principles of Radiographic Exposure** Sem II,III,IV (32 clock hours/2 credit hours)

This course is designed to give the student radiographer the ability to select technical factors required to produce high-quality diagnostic radiographs. This course also includes mathematical principles used in producing a diagnostic radiograph and technical changes needed when accessory equipment is used.

**Human Structure and Function** Sem I,II,III,IV (64 clock hours/4 credit hours)

This course is designed to educate the student radiographer in the anatomy and physiology of the human body. For the radiographer to do radiographic procedures on various anatomic parts, it is necessary to know the location and function of all body parts.

**Radiographic Image Evaluation** Sem I,II,III,IV (32 clock hours/2 credit hours)

This course integrates all of the material previously learned. Although the radiographer does not interpret the radiograph, the radiographer will evaluate it for diagnostic quality to include consideration of pathologic conditions.

**Radiographic Pathology** Sem IV (16 contact hours/1 credit hour)

This course is designed to acquaint the student with various disease conditions that may affect the resulting radiographic image. In addition, knowledge of the disease entities is helpful in working with the patients.

**Pharmacology** Sem IV (16 contact hours/1 credit hour)

This course is to help the student radiographer in the medical imaging profession better understand the importance of pharmacologic principles and practices in patient care. This course also focuses on essential information that radiographers need to know for safe administration of drugs. The content of the course includes contemporary and traditional medication, common problems, up-to-date regulations, legal issues for radiographer administering drugs, and emergency pharmacology.

**Digital Imaging Technologies** Sem IV (16 contact hours/1 credit hour)

This course is designed to introduce the student radiographer to computed radiography, digital radiography, PACS

## Student responsibilities

### DIDACTIC RESPONSIBILITIES

- Report for class at assigned time
- Report in proper attire
- Report prepared and attentive for class (written/reading) assignments
- Perform written/reading assignments at proper time/place
- Maintain at least a C average or a 2.0 GPA

Didactic quarterly progress report

Student:

Year: I Semester: I Quarter: I

Anatomy and Physiology	
Patient Care	
Visceral Positioning	
Radiation Protection	
Skeletal Positioning	
Introduction to Radiology	
Medical Terminology	
Image Evaluation	

\_\_\_\_\_  
Student

\_\_\_\_\_  
Date

\_\_\_\_\_

## Didactic semester grade report

Date Issued:

Mercy Hospital St. Louis

School of Radiologic Technology

615 South New Ballas Road St. Louis, MO 63141

**Student Name:**

**Student ID:**

Course/Instructor	Semester I	Semester II	Semester III	Semester IV	Clock/Credit
	8/1 – 12/1	1/1 – 5/1	8/1 – 12/1	1/1 – 5/1	Hours
Anatomy & Physiology/Ringwald	16/1	16/1	16/1	16/1	64/4
Eval. Radiographs/Fletcher	8/.5	8/.5	8/.5	8/.5	32/2
Intro to Rad. Tech./Ibaviosa	16/1	---	---	---	16/1
Medical Terminology/Ibaviosa	16/1	16/1	---	---	32/2
Patient Care/Ringwald	16/1	16/1	16/1	---	48/3
Principles of Exposure/Ibaviosa	---	16/1	16/1	---	32/2
Radiographic Pathology/Ibaviosa	---	---	---	16/1	16/1
Radiation Protection/Ibaviosa	32/2	---	---	---	32/2
Radiation Biology/Ibaviosa	---	32/2	---	---	32/2
Radiation Physics/Ibaviosa	---	---	32/2	32/2	64/4
Skeletal Positioning/Fletcher	16/1	16/1	16/1	16/1	64/4
Special Procedures /Ibaviosa	---	---	16/1	16/1	32/2
Visceral Positioning/Fletcher	16/1	16/1	---	---	32/2
Pharmacology/Ringwald	---	---	---	16/1	16/1
Digital Technology/Fletcher	---	---	---	16/1	16/1
Medical Ethics/Ringwald	---	---	---	16/1	16/1
Radiography Journal					
<b>Clock/Credit</b>	136/8.5	136/8.5	120/7.5	152/9.5	544/34
<b>Didactic GPA</b>					
Class Average					
	7/1 – 12/1	1/1 – 6/1	7/1 - 12/1	1/1 – 6/1	
Practical Positioning Evaluation					
Competency Evaluation					
Clinical Grade					
<b>Clinical GPA</b>					
<b>Clock/Credit</b>	720/7.5	720/7.5	720/7.5	720/7.5	2880/30
Absent/Tardy					3424/64
Start Date/ Completion Date					

### Certificate of Completion Awarded in Radiologic Technology

James E. Ibaviosa, R.T., MBA  
Program Director

Thomas A. Applewhite, MD  
Medical Advisor

## GRADUATION REQUIREMENTS

### Program completion

After successful completion of the 24 months of didactic and clinical education, the student will be awarded a certificate of completion in Radiologic Technology.

- Patient Care requirements (CPR, Vital signs, sterile technique, venipuncture, patient transfers, care of patient medical equipment).
- Terminal Competencies/Evaluation (average score of 2)
- Required Clinical Competencies (> 85% average)
- Clinical Courses with an accumulative of 85% or better
- Clinical rotations and objectives
- Program Completion requirements
- Didactic Objectives with an accumulative GPA of 2.0 or better
- Minimum number of Clock Hours
- Required Program Evaluations
- Returned all property belonging to program or Medical Center (lead markers, radiation badge, library books, Name ID, Parking tag, Electronic security badge, etc.)

## Exit Evaluation

The graduate shall be able to:

1. provide basic patient care and comfort and anticipate patient needs †
2. provide appropriate patient education
3. practice radiation protection
4. understand basic x-ray production and interactions
5. operate medical imaging equipment and accessory devices
6. position the patient and medical imaging system to perform examinations and procedures
7. exercise independent judgment and discretion in the technical performance of medical imaging procedures
8. demonstrate knowledge of human structure, function and pathology
9. demonstrate knowledge and skill relating to quality assurance activities
10. evaluate the performance of medical imaging systems
  
11. evaluate medical images for technical quality
12. demonstrate knowledge and skill relating to medical image processing
13. understand the safe limits of equipment operation
14. recognize equipment malfunctions and report them to the proper authority
15. demonstrate knowledge and skills relating to verbal, nonverbal, and written medical communication in patient care intervention and professional relationships
16. support the profession's code of ethics and comply with profession's scope of practice
17. recognize emergency patient conditions and initiate first aid and basic life support procedures
18. exercise independent judgment and discretion in the technical performance of medical imaging procedures
19. apply principles of body mechanics
20. Complete all Mandatory and Elective procedures as specified on Competency Record

## ADMINISTRATIVE POLICIES

### Policy and procedure manual

### Mission Statement

*In Keeping with the Mission of Mercy, the School of Radiologic Technology is committed to Providing a Safe and Creative Learning Environment for the Development of Highly Skilled Radiographers, who Provide Compassionate Care and Exceptional Service*

## Program Goals and Student Learning Outcomes

### **Goal 1: Clinical Competence**

Develop a Radiographer who demonstrates clinical proficiency and competence

Student Learning outcomes:

- Graduates will provide compassionate care to all patients
- Students will demonstrate proper radiation protection to self, patients and others
- Students will demonstrate proficiency in technical factors of image production

### **Goal 2: Communication**

Develop a Radiographer who communicates effectively in the clinical setting

Student Learning outcomes:

- Students will demonstrate communication skills through patient rapport, awareness, and interaction
- Students will educate the patient about the imaging procedure
- The student effectively communicates with radiologists, radiographer and other healthcare professionals

### **Goal 3: Critical Thinking**

Develop a Radiographer who demonstrates critical thinking and problem-solving skills

Student Learning outcomes:

- Students will correctly select exposure factors for various patient conditions to produce optimal image quality
- Graduates will demonstrate the skills necessary to perform non-routine procedures
- Students can recognize trauma patient conditions and initiate appropriate treatments

### **Goal 4: Professionalism**

Develop a Radiographer who demonstrates professional and ethical behavior

Student Learning outcomes:

- Students will demonstrate punctuality to room assignments and procedures
- Graduates will utilize good judgment and discretion while performing exams
- Employers will be satisfied with the educational levels of the graduates

### **Goal 5: Program effectiveness**

Provide a quality program that meets the expectation of the graduates

Student Learning outcomes:

- Program will demonstrate a consistent program completion rate
- Graduates will express satisfaction with the training they received from this program
- Program will prepare the students to pass the ARRT
- The program will prepare the students to be employable as entry-level radiographers
- Employers will be satisfied with the student's entry level skills

## Program effectiveness data

ARRT Results	2019	2020	2021	2022	2023	5YR Ave
% Examinees Passing 1 <sup>st</sup> attempt	100%	100%	88%	86%	86%	92%
# 1 <sup>st</sup> time Examinees passed/attempted	7/7	8/8	7/8	6/7	6/7	34/37

Benchmark 5 yr pass rate average of not less than 75% at first attempt within 6 months of graduation

Job Placement	2019	2020	2021	2022	2023	5YR Ave
#grads that found employment 12 mo after graduation	7	8	7	6	7	35/35= 100%
#grads actively sought employment*	7/7	8/8	7/7	6/6	7/7	

Benchmark 5 yr average job placement rate of not less than 75% within 12 months of graduation

Program Completion	2019	2020	2021	2022	2023
Students Enrolled	8	8	8	7	7
Students Graduated	7	8	8	7	7
100%Completion rate	88%	100%	100%	100%	100%

Benchmark 75% of those entering the program will graduate within the course timeframe (This is an annual measurement)

Satisfaction	2019	2020	2021	2022	2023	5YR Ave
Graduate	100%	100%	100%	100%	100%	100%
Employer	100%	100%	100%	100%	100%	100%

Benchmark 100% satisfaction with program and graduate

\*The JRCERT has defined “not actively seeking employment” as:

- 1) Graduate fails to communicate with program officials regarding employment status after multiple attempts OR
- 2) Graduate is unwilling to seek employment that requires relocation, OR
- 3) Graduate is unwilling to accept employment due to salary or hours, OR
- 4) Graduate is on active military duty, OR
- 5) Graduate is continuing education.

JRCERT standards

[2021-Radiography-Standards.pdf \(jrcert.org\)](#)

[Radiography Flipbook \(jrcert.org\)](#)