

# Radiologic Technology

## A PROGRAM GUIDE

Application Deadline :  
September 15



Radiologic technology is the science of using radiation or radioactive substances in a controlled manner for the diagnosis of illness or injury and the treatment of disease. The Radiologic Technology program at the University of Southern Indiana prepares individuals to function effectively as entry-level radiographers. Radiographers are radiologic technologists who, under the direction of a physician, perform radiologic (x-ray) examinations of all parts of the human body.

The Radiologic Technology (RT) Program provides a curriculum which includes didactic courses in conjunction with laboratory and clinical experiences. The curriculum consists of 1½ years of pre-requisite general education courses and 2½ years of professional education course work. Completion of these 4 years results in a baccalaureate degree in Radiologic and Imaging Sciences. The student will be eligible to sit for the national certification examination administered by the American Registry of Radiologic Technologists (ARRT). The Bachelor of Science degree in Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology.

### ADMISSION TO THE RADIOLOGIC TECHNOLOGY PROGRAM

Prospective students must be accepted for admission to USI before being considered for admission to the Radiologic Technology Program. Applicants must have graduated from high school and have completed all RT program prerequisite courses with a minimum grade point average of 3.0 (4.0 scale). Official university transcripts must be submitted to the RT program as part of the admission procedure. RT program application, accompanying required documents and transcripts must be received by **September 15** of the year the student desires admission to the program. The admission process follows the university's *Student's Rights and Responsibilities* on discrimination: "Each student has the right to be free from discrimination, including harassment, on the basis of race, sex, religion, disability, age, national origin, sexual orientation, or status as a disabled veteran of the Vietnam era. Applicants meeting academic requirements must be in good health, be eligible for ARRT licensure, and be capable of fulfilling the essential functions of a radiologic technologist.

The RT student selection process involves a review of all required documents and an interview by the RT admission committee. This committee consists of the program faculty and clinical instructors from each clinical site. Applicants are informed when to schedule the interview via letter/ or email from the RT program director. All interviews are conducted privately and by appointment only. The committee's decision is conveyed by letter within approximately two weeks after all interviews are completed.

It is strongly recommended that applicants observe a minimum of 20 hours in a radiology department to gain understanding of basic radiologic procedures prior to **September 15**. Credit toward admission into the Radiologic Technology program will be given to applicants with previous health care experience.

Individuals whose applications are incomplete or unsatisfactory will be notified. In order to be interviewed, all inadequacies must be corrected.

The RT program is limited in the number of students that may be accepted each year. USI, in collaboration with the clinical affiliates, reserves the right to determine the number of students enrolled in each beginning class. Total admission can not exceed the maximum number established by the Joint Review Committee on Education in Radiologic Technology.

Prior to beginning the RT courses, admitted students must submit a medical history and results of a physical examination, drug screen, criminal check, immunization records, documentation of current tuberculosis test status, documentation of completion of Hepatitis B vaccination (3 part series), proof of health insurance, and documentation of CPR certification at the health profession level.

Students admitted to the RT program must complete all professional course work (RADT) with the grade of C or better to progress in the RT program.

## PROGRAM FEES FOR RADIOLOGIC TECHNOLOGY

The expenses of the program include tuition and fees, books and uniforms. For information on current charges for tuition and fees, contact the USI Office of Admissions at 812/464-1765. Books required during the program will cost approximately \$1200-\$1500 and uniforms approximately \$250-\$500. These expenses can vary and are subject to change. If housing is required, information on cost and availability can also be obtained through the Office of Admissions. Financial aid information can be obtained through the Office of Student Financial Assistance at 812/464-1767.



### CHECKLIST FOR APPLICATION PROCESS

- Apply to the University of Southern Indiana (complete admissions process)
- Declare Radiologic Technology as your major with Registrar's office
- Enroll in and complete prerequisite courses for RIS program
- File this application with Radiologic and Imaging Sciences program
- Submit copies of any completed degrees or diplomas with application
- Provide 2 copies of a narrative addressing the questions below. One copy is signed and dated. The student ID number should replace the student name on the second copy and be void of any other identifiers.
  - Why do you believe you are a good candidate for this program?
  - What are your career goals?
  - Do you have any health care experience? If so, explain in what capacity, length of time, and what you gained from the experience.
  - What have you learned through your volunteer experiences within a radiology department?
- Request transcripts from all colleges (not USI transcripts) to be sent to address below

Submit all materials no later than September 15 of the year you wish to be considered for admission to Radiologic Technology program to:

Radiologic Technology  
College of Nursing and Health Professions  
University of Southern Indiana, 8600 University Boulevard, Evansville IN 47712

For more information, contact:  
USI Radiologic and Imaging Sciences Program  
812/465-1181



## 2010 –Bachelors Degree Radiologic and Imaging Sciences –Radiologic Technology

<b>First Year</b>	
<b>Fall</b>	
<i>BIOL 121 Anatomy &amp; Physiology I</i>	3
<i>ENG 101 Rhetoric &amp; Composition I</i>	3
<i>HP 115 Medical Terminology</i>	2
<i>MATH 111 College Algebra</i>	4
<i>IND.DEV./SOC.BEH. (Choose a C2 approved Course)</i>	<u>3</u>
	15
<b>Spring</b>	
<i>ARTS (Choose a B2 approved Course)</i>	3
<i>BIOL 122 Anatomy &amp; Physiology II</i>	3
<i>CHEM (CHEM 103 or higher) or</i>	
<i>PHYS (PHYS 101 or higher)</i>	3
<i>RADT 196 Orientation to Radiographic &amp; Imaging Sciences</i>	2
<i>CMST 101 Introduction to Speech or</i>	
<i>CMST 107 Interpersonal Communication</i>	<u>3</u>
	14

<b>Second Year</b>	
<b>Fall</b>	
<i>ENG 201 Rhetoric &amp; Composition II</i>	3
<i>HIST (Choose a C1 approved Course)</i>	3
<i>IND.DEV./SOC.BEH. (Choose a C2 approved Course)</i>	3
<i>WESTERN CULTURE (Choose one from the C4 approved Courses—HUM I or For. Lang 203)</i>	3
<i>PED Activity</i>	1
<i>HEALTH /FITNESS (Choose B3 approved course)</i>	<u>1</u>
	14

<b>Spring</b>	
<i>DMS 301 Patient Care for Imaging Science Professionals</i>	2
<i>HA 356 Ethics &amp; Healthcare in a Pluralistic Society</i>	3
<i>RADT 308 Introduction to Radiographic Positioning</i>	3
<i>RADT 311 Introduction to Radiographic Technology</i>	3
<i>WESTERN CULTURE (Choose from C4 approved courses)</i>	3
<i>GLOBAL COMM. (Choose a C5 approved course)</i>	<u>3</u>
	17

<b>Summer I, II, III (15 weeks)</b>	
<i>RADT 312 Radiographic Exposure</i>	3
<i>RADT 313 Radiographic Procedures I</i>	3
<i>RADT 333 Clinical Applications of Radiology</i>	<u>2</u>
	8

<b>Third Year</b>	
<b>Fall</b>	
<i>RADT 316 Radiographic Procedures II</i>	3
<i>RADT 334 Radiographic Physics</i>	3
<i>RADT 343 Clinical I</i>	2
<i>RADT 411 CT/MRI Physics &amp; Instrumentation</i>	3
<i>RADT 412 Advanced Radiographic Exposure &amp; Mobile Radiography</i>	<u>3</u>
	14
<b>Spring</b>	
<i>RADT 318 Radiographic Procedures III</i>	3
<i>RADT 335 Radiation Biology</i>	2
<i>RADT 337 Intro. to Invasive Imaging Procedures</i>	3
<i>RADT 353 Clinical II</i>	2
<i>RADT 355 Adv. Patient Care for Imaging Sciences</i>	3
<i>RADT 413 CT/MRI Procedures I</i>	<u>3</u>
	16

<b>Summer I, II, III (15 weeks)</b>	
<i>RADT 415 CT/MRI Procedures II</i>	3
<i>RADT 435 Clinical III</i>	<u>3</u>
	6

<b>Fourth Year</b>	
<b>Fall</b>	
<i>HA 405 Health Informatics</i>	3
<i>RADT 345 Radiography Pathology</i>	2
<i>RADT 425 Radiographic Critique</i>	3
<i>RADT 427 Radiology Department Information Systems</i>	3
<i>RADT 445 Clinical IV</i>	<u>3</u>
	14
<b>Spring</b>	
<i>RADT 424 Rad. &amp; Imag. Sciences Practice &amp; Res.</i>	3
<i>RADT 455 Clinical V</i>	3
<i>RADT 491 Integration of Advanced Imaging Concepts</i>	3
<i>SYNTHESIS (Choose a D approved course)</i>	<u>3</u>
	12

*Classes in Italics must be completed or in progress during the semester student applies for RT program*

ALL DMS, RADT COURSES and ENG 101, 201, BIOL 121, BIOL 122, MATH 111, & HP 115 must be completed with a grade of "C" or better

Students admitted to the program are assigned a home clinical site, but rotate through other clinical facilities. Students may be assigned or rotate through a clinical facility that will require travel up to seventy miles away from the university. Clinical hours are routinely scheduled during day shift hours (5 a.m.– 7 p.m. CST). Students may elect rotations in their last semester of clinical for shifts on non-day hours (evenings and nights). For detailed information on clinical assignment or hours, please see the student handbook located on the Program's web-site.

## ESSENTIAL FUNCTIONS OF A RADIOLOGIC TECHNOLOGIST

The USI Radiologic Technology Program is covered by two federal laws that prohibit discrimination against persons with disabilities: The Americans with Disabilities Act of 1990, and Section 504 of the Rehabilitation Act of 1973. Under these laws, the Program may not discriminate against a “qualified student with a disability”, which is defined as a student with a disability who meets the academic and technical standards requisite for admission or participation in a post-secondary educational program or activity.

One or both of these laws also apply to most employers of Radiologic Technologists. Covered employers are prohibited from discriminating against a “qualified individual with a disability”, which is defined as an individual with a disability who (1) is able to satisfy the general skill, experience, education, and other job-related requirements of the position, and (2) can perform the essential functions of the job, with or without a reasonable accommodation. “Essential Functions” are the job duties that an employee must be able to perform, based on factors such as the reason the position exists, the number of other employees available to perform the function or among whom performance of the function can be distributed, and the degree of expertise or skill required to perform the function.

In order to successfully complete program requirements, achieve full competence as a radiologic technologist, and be eligible for employment after pro-gram completion; **the student must demonstrate that they can perform the following essential functions commonly performed by radiologic technologists, with or without reasonable accommodation:**

- Access and accurately understand requisitions, orders, charts, directions, and other job-related documentation and communications.
- Independently travel through the radiology department and to other departments and floors of the hospital.
- Remain in a stationary position for long periods of time.
- Assist patients to transfer from beds, wheelchairs, and stretchers to the radiographic table and back.
- Give clear commands to patients and communicate effectively with patients and professional staff; including with individuals wearing masks.
- Independently access, adjust, and operate radiographic equipment.
- Independently assess the ongoing functioning of the radiographic machine and other equipment.
- Independently assess radiographic images, controls, labels, and observe patients.
- Work in a sterile environment, prepare sterile fields, and fill sterile syringes.

## UNIVERSITY OF SOUTHERN INDIANA COLLEGE OF NURSING AND HEALTH PROFESSIONS MISSION

The USI College of Nursing and Health Professions promotes excellence in its academic programs, faculty, students, and graduates and demonstrates leadership in health care education, research, practice, and community service.

## UNIVERSITY OF SOUTHERN INDIANA RADIOLOGIC TECHNOLOGY

The University of Southern Indiana Radiologic Technology Program seeks to graduate students with the knowledge and skills essential for an entry level radiographer. Students will be prepared to care for patients in a variety of health care settings. They will be skilled in problem solving and critical thinking, they will be equipped with effective communication tools, and they will be dedicated to professional growth and development.

## UNIVERSITY OF SOUTHERN INDIANA RADIOLOGIC TECHNOLOGY PROGRAM GOALS

Goal # 1: Student will demonstrate problem solving and critical thinking skills.

Outcome 1: Student will show how to modify exams and/or technical factors for patient condition, equipment, accessories, pathology and other variables.

Outcome 2: Student will evaluate images for appropriate positioning and image quality.

Goal # 2: Student will show the use of effective communication.

Outcome 1: Student will demonstrate effective oral communication skills.

Outcome 2: Student will demonstrate effective written communication skills.

Goal # 3: Student will demonstrate clinical competency.

Outcome 1: Student will produce quality radiographs by proper positioning.

Outcome 2: Student will produce quality radiographs through selection of appropriate technical factors.

Outcome 3: Student will demonstrate professional standard practices in radiation safety.

Goal # 4: Student will participate in professional growth and development activities.

Outcome 1: Student will demonstrate clinical professionalism.

Outcome 2: Student will plan a career path for professional goals.

Goal # 5: Student will be prepared as an entry level radiologic technologist.

Outcome 1: Program graduates will pass the ARRT examination on the first attempt.

Outcome 2: Student will complete the program in 28 months.

Outcome 3: Program graduate will be employed within six months if seeking entry level employment.

Outcome 4: Graduate will be satisfied with education.

Outcome 5: Employers will be satisfied with graduate's performance.