# Radiologic Technology
## A PROGRAM GUIDE

**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 4years results in an Associate of Science degree in Radiologic Technology and a baccalaureate degree in Radiologic and Imaging Sciences. The student will be eligible to sit for the national registration examination administered by the American Registry of Radiologic Technologists (ARRT). The Associate 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 2.7 (4.0 scale). The program's minimum GPA will raise to 3.0, effective for program admissions in Fall 2010. Official university transcripts must be submitted to the RT program as part of the admission procedure. RT program application and 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, color, national or ethnic origin, religion, sexual orientation, or veteran status in accordance with the applicable federal, state, and local laws." Applicants meeting academic requirements must be in good health, be eligible for ARRT licensure, and be capable of fulfilling program technical standards.

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 from the RT program director. All interviews are conducted privately and by appointment only. The committee's decision is conveyed by letter 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 immediately.

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-$300. 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 to accompany application**
- **Provide a signed, dated narrative that addresses these questions:**
  - **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 high schools, colleges to be sent to address below**

**Submit all materials no later that 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

# 2009 –Bachelors Degree Radiologic and Imaging Sciences –Radiologic Technology

## First Year

**Fall**

| | |
|---|---|
| *BIOL 121 Anatomy & Physiology* | *3* |
| *ENG 101 Rhetoric & Composition I* | *3* |
| *HP 115 Medical Terminology* | *2* |
| *MATH 111 College Algebra* | *4* |
| *IND.DEV/SOC.BEH. (Choose a C2 approved Course)* | *3* |
| | *15* |

**Spring**

| | |
|---|---|
| *ARTS (Choose a B2 approved Course )* | *3* |
| *BIOL 122 Anatomy & Physiology* | *3* |
| *CHEM 103 General Chemistry/Non-majors or* | |
| *PHYS 101 Introduction to Physical Sciences* | *3* |
| *RADT 196 Orientation to Radiographic & Imaging Sciences* | *2* |
| *CMST 101 Introduction to Speech or* | |
| *CMST 107 Interpersonal Communication* | *3* |
| | *14* |

## Second Year

**Fall**

| | |
|---|---|
| *ENG 201 Rhetoric & Composition II* | *3* |
| *HIST (Choose a C1 approved Course)* | *3* |
| *IND.DEV./SOC.BEH. (Choose a C2 approved Course)* | *3* |
| *WESTERN CULTURE (Choose one from the C4 approved Courses— HUM I or For. Lang 203* | *3* |
| *PED Activity* | *1* |
| *HEALTH /FITNESS (Choose B3 approved course)* | *1* |
| | *17* |

**Spring**

| | |
|---|---|
| DMS 301 Patient Care for Imaging Science Professionals | 2 |
| HA 356 Ethics & Healthcare in a Pluralistic Society | 3 |
| RADT 308 Introduction to Radiographic Positioning | 3 |
| RADT 311 Introduction to Radiographic Technology | 3 |
| WESTERN CULTURE (Choose from C4 approved courses) | 3 |
| GLOBAL COMM. (Choose a C5 approved course) | 3 |
| | 17 |

**Summer I, II, III (15 weeks)**

| | |
|---|---|
| RADT 312 Radiographic Exposure | 3 |
| RADT 313 Radiographic Procedures I | 3 |
| RADT 333 Clinical Applications of Radiology | 2 |
| | 8 |

## Third Year

**Fall**

| | |
|---|---|
| RADT 316 Radiographic Procedures II | 3 |
| RADT 334 Radiographic Physics | 3 |
| RADT 343 Clinical I | 2 |
| RADT 411 CT/MRI Physics & Instrumentation | 3 |
| RADT 412 Advanced Radiographic Exposure & Mobile Radiography | 3 |
| | 14 |

**Spring**

| | |
|---|---|
| RADT 318 Radiographic Procedures III | 3 |
| RADT 335 Radiation Biology | 2 |
| RADT 337 Special Procedures | 2 |
| RADT 353 Clinical II | 2 |
| RADT 413 CT/MRI Procedures | 3 |
| HP 325 Pharmacology & Therapeutics | 3 |
| | 15 |

**Summer I, II, III (15 weeks)**

| | |
|---|---|
| RADT 415 CT/MRI Procedures II | 3 |
| RADT 435 Clinical III | 3 |
| | 6 |

## Fourth Year

**Fall**

| | |
|---|---|
| HP 335 Mechanisms of Pathophysiology | 3 |
| RADT 345 Radiography Pathology | 2 |
| RADT 424 Radiologic & Imaging Sciences Practice & Research | 3 |
| RADT 427 Radiology Department Information Systems | 3 |
| RADT 445 Clinical IV | 3 |
| | 14 |

**Spring**

| | |
|---|---|
| RADT 425 Radiographic Critique | 3 |
| RADT 455 Clinical V | 3 |
| RADT 465 Directed Study in Radiologic Technology | 3 |
| RADT 491 Integration of Advanced Imaging Concepts | 3 |
| SYNTHESIS (Choose a D approved course) | 3 |
| | 15 |

*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 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.

## TECHNICAL STANDARDS FOR RADIOLOGIC TECHNOLOGY

Prospective students for the RT program are required to meet certain technical standards necessary for successful and competent performance in radiography. The technical standards listed below are determined by the activities commonly performed by radiographers in daily practice. The ability of each student to meet the technical standards is determined through physical examination and competency evaluation.

Each student's general state of health including hearing, eyesight, physical condition and mobility are checked prior to the beginning of clinical education through a physical examination conducted by a physician. Other technical standards such as ability to operate radiographic equipment, lift and move patients and equipment, fill syringes, communicate effectively are determined through competency evaluations conducted during clinical courses.

In order to complete program requirements and achieve full competence as a radiographer, **the student must be able to**:

- Read and understand requisitions, orders, charts, directions and other printed matter.
- Walk through the radiology department and hospital, use stairs and stand for long periods of time.
- Lift, move, and assist patients from beds, wheelchairs, and stretchers to the radiographic table and back.
- Give clear verbal commands to a patient and communicate effectively with patients and professional staff verbally and in writing.
- Reach, adjust, and operate radiographic equipment.
- Hear sounds from the radiographic machine; hear spoken words including individuals wearing masks.
- Clearly see 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.

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

Goal # 3: Student will demonstrate clinical competency.

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

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

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