

RADIOLOGIC TECHNOLOGY



XAVIER
UNIVERSITY

RADIOLOGIC TECHNOLOGY is the art and science of using radiation to provide film or video images of the tissues, organs, bones and vessels that comprise the human body. A radiographer understands radiation and knows how to produce quality images through accurate positioning and technical and patient care skills. The radiographer contributes a special talent to help diagnose injury and disease. Through an integrated plan of classroom, laboratory and clinical training, students prepare to enter diagnostic imaging as a radiographer.

Associate of Science (AS) in Radiologic Technology

- ▶ Graduates can apply to sit for the certification examination with the American Registry of Radiologic Technology (ARRT).

The Xavier Advantage:

- ▶ Complete a program that is accredited by The Joint Review Committee on Education in Radiologic Technology (JRCERT).
- ▶ Choose to expand your imaging skills by completing a two-semester certificate program in magnetic resonance imaging (MRI) or earn your bachelor's degree in liberal arts with MRI concentration.
- ▶ Gain strong clinical experience at Xavier's top-quality hospital affiliates in Cincinnati.

Xavier graduates go on to:

- ▶ Hospitals, clinics and private offices as radiographers
- ▶ Careers in computed tomography (CT), diagnostic X-ray, mammography and magnetic resonance imaging
- ▶ Bachelor's degrees in general studies, management, business or education

Learn more www.xavier.edu/radiologic-tech

Ask us xuadmit@xavier.edu

Visit campus www.xavier.edu/visit



RECOMMENDED CLASS SCHEDULES

ASSOCIATE OF SCIENCE [AS] DEGREE IN RADIOLOGIC TECHNOLOGY

These schedules serve as a guideline for progress toward a degree. Students should consult with their academic advisor.

FIRST YEAR (Freshman Year)

PRE-SEMESTER (August 1 to Fall Semester)	Sem. Hrs.
RADT 150: Medical Terminology (Scheduled each afternoon during August)	1
RADT 152: Patient Care in Radiology (Scheduled each afternoon during August)	1
RADT 161: Radiographic Practicum I (Scheduled each morning during August. Course completed at the end of fall semester.)	
Total	2

FALL SEMESTER (First Semester)	Sem. Hrs.
BIOL 140: Human Anatomy & Physiology	3
BIOL 141: Human Anatomy & Physiology I Lab	1
MATH 105: Fundamentals of Math OR Placement in higher level math	3
PSYC 101: General Psychology	3
RADT 160: Radiographic Procedures I	2
RADT 161: Radiographic Practicum I (Scheduled T,TH / 8 hrs. per day)	1
RADT 154: Ethics and Law in Radiology	1
RADT 170: Principles of Radiographic Exposure I	2
Total	16

SPRING SEMESTER (Second Semester)	Sem. Hrs.
ENGL 101/115: English Comp OR Rhetoric	3
BIOL 142: Human Anatomy & Physiology II	3
BIOL 143: Human Anatomy & Physiology II Lab	1
RADT 162: Radiographic Procedures II	2
RADT 163: Radiographic Practicum III (Scheduled T,TH / 8 hrs. per day)	1
RADT 172: Principles of Radiographic Exposure II	2
RADT 180: Radiation Protection and Biology	2
SOCI 101: Intro to Sociology	3
Total	17

SUMMER SEMESTER (Third Semester)	Sem. Hrs.
THEO 111: Theological Foundations	3
COMM 207: Interpersonal Communication	3
RADT 163: Radiographic Practicum III (Scheduled M,T,W,TH,F (8 hrs. per day / 40 hrs. per wk.))	3
Total	9

SECOND YEAR (Sophomore Year)

RADT 262: Pharmacology and Drug Administration for Radiographic (1 credit)
This course starts in August and ends when the regular fall semester begins.

FALL SEMESTER (Fourth Semester)	Sem. Hrs.
HISTORY course	3
PHYS 140: Technical Physics	2
RADT 272: Principles of Computed Tomography	1
RADT 200: Digital Imaging	1
RADT 250: General Radiography	2
RADT 260: Special Procedures	2
RADT 270: Principles of Radiographic Exposure III	2
RADT 272: Principles of Computed Tomography (CT)	1
RADT 261: Radiographic Practicum IV (Scheduled M,W,F / 8 hrs. per day)	2
Total	16

SPRING SEMESTER (Fifth Semester)	Sem. Hrs.
PHIL 100: Ethics as Intro to Philosophy	3
PHYS 141: Radiological Physics	2
RADT 292: Imaging Equipment and Film Processing	2
RADT 294: Radiographic Sectional Anatomy	2
RADT 280: Pathology	2
RADT 263: Radiographic Practicum V (Scheduled M,W,F / 8 hrs. per day)	2
Total	13

SUMMER SEMESTER (Sixth Semester)	Sem. Hrs.
RADT 265: Radiographic Practicum VI - Tutorial (Scheduled M,T,W,TH,F / 8 hrs. per day / 40 hrs. per wk.)	1-3
Total	1-3

Total number of credits: 76 hours (with a minimum of 73 credit hours required for the degree, if mathematics is waived)

► For additional class schedule information, see www.xavier.edu/radiologic-tech.

THE PROGRAM

Xavier University's College of Social Sciences, Health, and Education offers a two-year/full-time (23 months) classroom and clinical training program leading to an Associate of Science (AS) degree in Radiologic Technology. Graduates are then eligible to apply to the American Registry of Radiologic Technology (ARRT) to take their certification examination.

The Xavier radiologic technology program is accredited by The Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182, phone: 312-704-5300; website: www.jrcert.org.

Education for the radiography student is an integrated plan of classroom, laboratory and clinical education. The radiographic practicum courses (12 credit hours and approximately 1,900 clock hours) allow the students to practice theories taught at Xavier and apply them in a clinical setting.

Also offered is a magnetic resonance imaging (MRI) program. This program is designed to help MRI technologists working in the field prepare for the ARRT advanced examination or to enable radiographers to expand their career opportunities in MRI imaging.

Xavier's hospital affiliates in Cincinnati are Good Samaritan Hospital and Mercy Hospital-Western Hills. Both are fully staffed by registered radiographers. Each hospital also has a clinical instructor whose primary responsibilities are to oversee the clinical education of students enrolled in Xavier's radiologic technology program. Under the supervision of the clinical instructor, students experience hands-on training in a friendly, professional atmosphere. Clinical education includes experience in general radiography, fluoroscopy, tomography, surgical computed tomography, magnetic resonance imaging, trauma, portable and special procedures.

ADMISSION PROCESS

All applicants must be accepted as an undergraduate student at Xavier University before applying to the radiologic technology program. Students entering the radiologic technology program must be 18 years of age by September 30 of the enrollment year. This age requirement is set by the National Council of Radiation Protection and Measurements. The admission requirement for applying to the radiologic technology program is outlined at www.xavier.edu/radiologic-tech/Admission.cfm.

Waiting lists for admission into the radiologic technology programs are common in the State of Ohio. Xavier University has a waiting list of one to two years. If you are accepted into Xavier but placed on the radiologic technology program's waiting list, you may use your first year to complete courses toward a bachelor's degree. You will be notified of the waiting period for entry into the program during the application and interview process.

RESOURCES

Opened in August 2010, the Conaton Learning Commons is the heart of the James E. Hoff, S.J., Academic Quad on Xavier's campus. The Commons provides students with the facilities, technologies and services to help them master essential skills and gain a competitive advantage in their respective disciplines and careers.

OUTCOMES

Employment of radiologic technologists is expected to increase by about 17 percent through 2018, faster than the average for all occupations, according to the U.S. Bureau of Labor Statistics. As the population grows and ages, there will be increased incidences of illness and injury, which often require diagnostic imaging for diagnosis. Diagnostic imaging also is used to monitor the progress of disease treatment. With the increasing success of medical technologies in treating disease, diagnostic imaging will increasingly be needed to monitor progress of treatment.

Graduates in radiologic technology are eligible to apply to the American Registry of the Radiologic Technologist (ARRT) and will be prepared to work as a radiographer in a number of different settings, such as:

- Hospitals
- Clinics
- Private offices

Radiologic technology is a rapidly growing field with many career opportunities in such areas as:

- Computed tomography (CT)
- Diagnostic X-ray
- Fluoroscopy
- Magnetic resonance imaging (MRI)
- Mammography
- Mobile examinations
- Radiography
- Special procedures (vascular studies)
- Surgery

- ▶ Features 84,000 square feet, five floors and 24/7 environment.
- ▶ Creates a new focal point for connecting teaching, learning and our Jesuit mission of service to others.
- ▶ Equips students with all the latest academic and technological tools in a wireless setting.
- ▶ Offers ample space for individual study and group work in a wireless setting with access to plasma screens, movable white boards—and a café.
- ▶ Houses centers for academic advising and career services and labs for math, writing and modern languages.

Resources include a digital media lab, classrooms, auditorium and centralized location for reference and technology assistance.

COLLEGE OF SOCIAL SCIENCES, HEALTH, AND EDUCATION (CSSHE)

The Radiologic Technology Program is housed in the CSSHE, whose programs have a special focus on society in the areas of education, health, community services and more. The college houses a wide variety of departments that include undergraduate programs, master's degree programs and a doctoral program in psychology.

The CSSHE prepares undergraduate and graduate students in the Jesuit Catholic tradition intellectually, morally and spiritually for careers and professions of service by:

- ▶ Challenging students to strive for academic excellence and life-long learning.
- ▶ Providing applied experiences grounded in theoretical foundations.
- ▶ Promoting collaboration and community partnerships.
- ▶ Incorporating research, scholarship, and innovation.
- ▶ Integrating ethical behavior and a respect for individual differences and diversity.

CORE CURRICULUM

The foundation of Xavier's success is its commitment to its Jesuit heritage. The Core Curriculum embodies Xavier's mission and philosophy of education and serves as a valuable foundation for all undergraduate students. Within the Core, the four-course Ethics/Religion and Society (E/RS) Focus fosters students' understanding of socially significant issues through study of the humanities, especially literature, philosophy and theology, as well as the social and natural sciences. Along with courses in their major, Xavier students also take Core courses in: cultural diversity, English composition, fine arts, foreign language, history, literature, mathematics, philosophy, science, social science and theology.

ACADEMIC REQUIREMENTS

Core Curriculum: 29 credit hours, including 23 hours in the following liberal arts areas: biology, English, philosophy, psychology, sociology and theology; three hours of history; and three hours of mathematics.

Major in radiologic technology: 47 credit hours, including 40 hours in specific radiologic technology courses, plus three hours of interpersonal communication and four hours of technical and radiologic physics. The radiographic practicum courses (12 credit hours and approximately 1,900 clock hours) allow students to practice theories taught at Xavier and apply them in a clinical setting.

Before starting clinical courses, all students must provide evidence of required liability insurance, health care coverage and health history, including immunizations.

MRI program: This is a two-semester certificate program with 17 credit hours of didactic courses and 720 hours of clinical training. Students can apply these courses toward a bachelor degree in liberal arts. To be eligible for the MRI program, you must be registered with the ARRT as a registered technologist in radiography (R.T.(R)).



XAVIER AT A GLANCE

Founded in 1831, Xavier University is a Jesuit Catholic university in Cincinnati, Ohio, annually ranked among the nation's best universities. Its three colleges offer 85 undergraduate majors, 54 minors and 11 graduate programs to 7,019 total students, including 4,368 undergraduates.

FOR MORE INFORMATION

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RADIOLOGIC TECHNOLOGY PROGRAM

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