

Radiologic Technology (9380)

Radiographers work under the supervision of qualified radiologists or physicians. Radiographers perform imaging examinations, process radiographic films, evaluate radiographic equipment, manage quality assurance, provide patient education relevant to specific imaging procedures, and apply radiation protection principles to patients, self, and others. Work settings include hospitals, specialized imaging centers, urgent care clinics, private physician offices, industry, or civil service/public health centers.

Lakeland's Radiologic Technology degree program prepares students to be competent entry-level radiographers. Upon satisfactory completion of the program requirements, graduates are eligible to apply for examination by the American Registry of Radiologic Technologists. Students convicted of any felony or misdemeanor may be prohibited from applying for the certification examination.

Students must be admitted to the Radiologic Technology program to enroll in RADT courses. Other courses may be taken prior to admission to the program.

All students enrolled in a nursing or allied health program/certificate must complete a criminal background check. In accordance with clinical site requirements, students with a criminal record may be ineligible to participate in a clinical course/rotation/practicum. Delays, for any reason, in obtaining background results may cause an interruption in the clinical rotation sequence or inability to complete program requirements. Additional background screening may be required by individual facilities.

Drug Testing may be requested in accordance with clinical affiliation requirements and/or for patient/student health and safety.

A minimum GPA of 2.0 and a "C" grade or better is required in all science and program-specific courses for graduation.

Certificates in Computed Tomography and Magnetic Resonance Imaging are available.

ADMISSION PROCEDURES

Students must meet specific admission requirements for this program.

Listed below are requirements for admission to the Radiologic Technology Program:

OPTION 1: High School Option

This option is for current high school seniors or high school graduates who apply to the program within two years of high school graduation.

Please Note: Deadlines for submission of applications may be obtained from the admissions or counseling offices.

- Complete college application(s).
- Composite score of 21 or higher on the American College Test (ACT) or combined score of 1400 on the Scholastic Aptitude Test (SAT).
- Complete high school algebra, chemistry, and biology with a "C" grade or better.
- An overall high school GPA of 2.5 on a 4.0 scale or equivalent.
- Meet with a counselor to review program prerequisites and requirements.

Upon successful completion of the above criteria, the applicant will be admitted into the program. Students must complete HLTH 1210 (Medical Terminology) with a "C" grade or better prior to enrolling in their first health technology course.

OPTION 2: College Option

This option is for students who do not qualify for admission under Option 1. **Please Note: Deadlines for submission of applications may be obtained from the admissions or counseling offices.**

- Complete college application(s).
- Submit high school transcript as well as any college transcript(s).
- Successful passing score on the required program pre-admission test.
- Meet with a counselor to review program prerequisites and requirement.
- The following courses, or equivalent courses at other regionally accredited colleges, must be completed with a "C" or better and have a minimum cumulative GPA in program applicable courses of 2.8 or better.
 - HLTH 1210 Medical Terminology
 - BIOL 2210 Anatomy & Physiology I

NOTE: Students must meet one of these requirements to take BIOL 2210:

1. High school biology within last five years and high school chemistry.
2. High school biology within last five years and CHEM 1100 Elementary Chemistry.
3. Biology 1200 Fundamentals of Biology for the Health Technologies.

Students are required to take the Math Placement Test and be placed into MATH 0950 or complete MATH 0850 with a "C" grade or higher.

First Semester:

BIOL 2210	Anatomy and Physiology I	.4
ENGL 1110*	English Composition I (A)	3
	OR	
ENGL 1111	English Composition I (B)	
RADT 1100	Introduction to Radiologic Technology	.4
RADT 1210	Radiographic Procedures I	.3
RADT 1310	Clinical Experience I	.1

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Second Semester:

BIOL 2220	Anatomy and Physiology II	.4
ENGL 1120	English Composition II	.3
ITIS 1000	Introduction to Personal Computers	.1
RADT 1150	Principles of Imaging I	.4
RADT 1220	Radiographic Procedures II	.3
RADT 1320	Clinical Experience II	.2

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Summer Semester:

RADT 2010	Digital Imaging	.2
RADT 2050	Seminar I	.1
RADT 2310	Clinical Experience III	.4

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Third Semester:

PSYC 1500 Introduction to Psychology3
RADT 2100 Special Imaging Modalities2
RADT 2150 Medical Physics3
RADT 2200 Principles of Imaging II2
RADT 2320 Clinical Experience IV3

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Fourth Semester:

RADT 2280 Radiographic Pathology2
RADT 2330 Clinical Experience V3
RADT 2410 Radiation Protection and Biology3
SPCH 1000 Effective Public Speaking3

OR

SPCH 1100 Effective Interpersonal Communications3
Choose course(s) from the Arts and Humanities Electives list.3		

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Summer Semester:

RADT 2340 Clinical Experience VI4
RADT 2450 Seminar II2

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Program Total: 72

**English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).*

Arts and Humanities Electives: minimum 3 credits

ARTS 1120, 2220, 2230, 2240, 2245; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 2200, 2250; PHIL 1500, 2000; THEA 1000, 1100

Radiologic Technology Certificates

- Computed Tomography
- Magnetic Resonance Imaging

Computed Tomography Certificate (3811)

Computed Tomography (CT) technologists are responsible for taking detailed cross-sectional images of the internal structures of the human body using advanced computerized x-ray equipment. These members of the healthcare team work closely with physicians to provide radiographic studies that assist with patient diagnoses and treatment.

The Computed Tomography certificate program provides technologists with a solid foundation in CT physics and imaging, cross-sectional anatomy, and pathophysiology.

Students must meet specific admission requirements for this program. Candidates for this certificate program must be registered by the American Registry of Radiologic Technologists (ARRT), or be registry eligible. Students should contact the director of admissions or the Counseling Office for details about applying for admission to the certificate program.

First Semester:

RADT 2600 Introduction to Computed Tomography and Magnetic Resonance Imaging2
RADT 2620 Sectional Anatomy and Pathophysiology I3
RADT 2720 CT Clinical Experience2

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Second Semester:

RADT 2640 Sectional Anatomy and Pathophysiology II3
RADT 2710 CT Physics and Imaging2
RADT 2720 CT Clinical Experience2

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Certificate Total: 14

Magnetic Resonance Imaging Certificate (3821)

Magnetic resonance imaging (MRI) technologists use radio waves, powerful magnets, and computers to create images of the body. MRI has become an important diagnostic imaging method that has had a significant impact in the field of medicine.

The Magnetic Resonance Imaging certificate program provides technologists with a solid foundation in MRI physics and imaging, cross-sectional anatomy, and pathophysiology.

Students must meet specific admission requirements for this program. Candidates for this certificate program must be registered by the American Registry of Radiologic Technologists (ARRT), or be registry eligible. Students should contact the director of admissions or the Counseling Office for details about applying for admission to the certificate program.

First Semester:

RADT 2600 Introduction to Computed Tomography and Magnetic Resonance Imaging2
RADT 2620 Sectional Anatomy and Pathophysiology I3
RADT 2820 MRI Clinical Experience2

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Second Semester:

RADT 2640 Sectional Anatomy and Pathophysiology II3
RADT 2810 MRI Physics and Imaging3
RADT 2820 MRI Clinical Experience2

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Certificate Total: 15