

www.clcillinois.edu/programs/mim

CERTIFICATE PROGRAM

**Biological and Health Sciences Division
Room B213 (847) 543-2042**

COMPUTED TOMOGRAPHY (Certificate) Plan 21MT

The Computed Tomography (CT) certificate prepares radiographers to work in medical facilities as a CT Technologist. Graduates of the program are qualified to take the national CT certification examination given by the American Registry of Radiologic Technologists (ARRT).

REQUIREMENTS

This is a limited enrollment program. Didactic courses are only offered online. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

The mission of the College of Lake County Computed Tomography Program is to cultivate exceptional Computed Tomography Technologists through equitable high-quality instruction in didactic and clinical settings. The Computed Tomography Program advocates independent, professional and ethical judgment, cultural and technical competence, advanced quality care, and continuous education to the diverse communities it serves.

The College of Lake County Computed Tomography Program's Vision is committed to providing a holistic education designed to meet the needs of community stakeholders. In addition, the Computed Tomography Program upholds the Values of the College of Lake County... Purpose, Integrity, Excellence, Inclusion, Unity and Compassion.

- Students must have submitted the following documents to the Welcome and One-Stop Center:
 - Student Information Form.
 - CT Request for Screening Form
 - Copy of current certification of your imaging field
 - A professional resume documenting years of experience in a related imaging field (must include employer, job responsibilities, and dates employed)
- Meet minimum technical performance standards as defined for the profession.

Please note that CT is an advanced certificate and open only to students who are registered in radiography or radiation therapy. In addition, students must maintain registration in radiography or radiation therapy by the ARRT at all times to be eligible for certification and registration in Computed Tomography.

SCREENING DEADLINE

The deadline is the first Wednesday in March of even years. If space is available in the program after the initial screening deadline, qualified students will be accepted in an order based on academic qualifications. All required materials must be submitted to the Records Office by the screening deadline.

The number of students that can be admitted to any clinical education course is limited for any given session. Therefore, a screening procedure is used to select the academically best qualified from those who request consideration.

- Preference is given to residents of CLC's district, or a community college district which does not offer a Medical Imaging program and is a member of the CAREER consortium. Students who live outside of CLC's district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.
- Students who are selected for the program are required to undergo a background check and a urine drug screen. The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student. Students must maintain a minimum grade of "C" in each Medical Imaging course to continue in and graduate from the CT program.

Note: The lecture portion of the courses is taught online

FALL SEMESTER (EVEN YEARS)	8
MIM 252 CT Physics, Instrumentation, and Procedures I	3
MIM 256 CT Sectional Anatomy and Pathology I	3
MIM 273+ CT Practicum I	2

SPRING SEMESTER	8
MIM 254 CT Physics, Instrumentation, and Procedures II	3
MIM 258 CT Sectional Anatomy and Pathology II	3
MIM 274 CT Practicum II+	2

Total Hours for Certificate **16**

+ The Practicum has been designed to be flexible and accommodate a variety of schedules. Actual clinic days and hours will be determined by the student and the instructor.

TYPICAL JOBS

- Computed Tomography (CT) Technologist

EMPLOYERS

- Hospitals
- Acute Care Centers
- Diagnostic Imaging Centers
- Outpatient Centers
- Hospitals

CONTACT INFO

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Medical Imaging Technical Performance Standards

Medical Imaging is a practice of discipline with cognitive, sensory, affective, and psychomotor performance requirements. Based on those requirements [and the State of Illinois licensing requirements], a list of “Performance Standards” has been developed. Each standard has an example of an activity or activities that a potential student will be required to perform while enrolled in the radiography program. Please note that these examples are not all inclusive.

Issue	Standard	Examples of Required Activities (Not all inclusive)
Visual	Visual ability sufficient for observation and assessment necessary in the operation of equipment and care of patients.	<ul style="list-style-type: none"> • Visualize x-ray collimator centering light and identify its center. • Observe the patient in order to assess the patient’s condition and/or needs from a distance of at least 20 feet. • Can see numbers, letters, calibrations, etc., of varying sizes located on equipment utilized by a radiographer.
Hearing	Auditory abilities sufficient to monitor and assess patient needs, and to provide a safe environment.	<ul style="list-style-type: none"> • Hear a patient talk in a normal tone from a distance of 20 feet • Hear monitor alarm, emergency signals, and cries for help.
Tactile	Tactile ability sufficient for patient assessment and operation of equipment and care of patients.	<ul style="list-style-type: none"> • Perform palpation, tactile assessment and manipulation of body parts to ensure proper body placement and alignment. • Manipulate dials, buttons and switches of various sizes.
Mental	Mental ability sufficient for patient assessment and operation of equipment and care of patients.	<ul style="list-style-type: none"> • Be able to visually concentrate and focus attention, thoughts, and efforts on patients and equipment for varying periods of time. • Be able to respond to patients’ changing physical conditions.
Environmental Requirements	Physical health sufficient enough to be able to tolerate certain conditions present in the clinical setting.	<ul style="list-style-type: none"> • Be able to tolerate risks of discomforts in the clinical setting that require special safety precautions, additional safety education, and health risk monitoring (i.e., ionizing radiation), working with sharps, chemicals, and infectious disease. Students may be required to use protective clothing or gear such as masks, goggles, gloves, and lead aprons.
Communication	Communication abilities sufficient for interaction with others in verbal and written form.	<ul style="list-style-type: none"> • Effectively communicate to the patient in order to converse, instruct the patient, relieve anxiety, gain their cooperation during procedures, understand the patient when they are communicating symptoms of medical emergency.

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Issue	Standard	Examples of Required Activities (Not all inclusive)
Mobility	Physical abilities sufficient to move from room to room and maneuver in small spaces.	<ul style="list-style-type: none"> • Assist all patients, according to individual needs and abilities, in moving, turning, transferring from transportation devices to x-ray table, etc. • Be able to push, pull, and lift a minimum 50 lbs. • Push a stretcher and/or wheelchair without injury to self, patient, and others. • Push a mobile x-ray machines from one location to another, including turning corners, getting on and off an elevator, and manipulating it in a patient's room or surgery.
Motor Skills	Gross and fine motor abilities sufficient to provide safe effective patient care.	<ul style="list-style-type: none"> • Manually move the x-ray tube and position the tube at various angles and heights up to 7 feet. • Accurately draw up sterile contrast media and other solutions without contaminating the syringe and/or needles, etc. • Physically be able to administer emergency care including performing CPR. • Place cassettes (image receptors) in Bucky trays and properly manipulate all locks. • Be able to stand for periods as long as 2-hours wearing lead aprons and to walk a distance of 5 miles during a normal work day.
Critical Thinking	Critical thinking ability sufficient for safe, clinical judgment.	<ul style="list-style-type: none"> • Identify cause-effect relationships in clinical situations. • Evaluate radiographs to ascertain that they contain proper identification and are of diagnostic value. • Select exposure factors and accessory devices for all radiographic procedures with consideration of patient size, age, and extent of disease. • Assess patient's condition and needs from a distance of at least 20 feet. • Initiate proper emergency care protocols, including CPR, based on assessment data.
Interpersonal Behavioral and Social Skills	Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	<ul style="list-style-type: none"> • Establish rapport with patients, families, and colleagues. • Allow mature, sensitive, and effective relationships with patients and fellow workers (interpersonal skills). • Tolerate physically taxing workload. • Function effectively under stress. • Adapt to changing environments (flexible schedules, emergency conditions). • Display compassion, professionalism, empathy, integrity, concern for others, and interest and motivation.

Developed by St. Petersburg College Radiography Program: Permission granted to CLC.

The American with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 and College of Lake County policy prohibits discrimination against individuals with disabilities. One of the purposes of this document is to ensure that students are aware of the requirements of this program and acknowledge their understanding of the program requirements. Students who have a disability and are in need of accommodations or modifications must contact the Office for Students with Disabilities ("OSD"). The OSD will determine whether or not any reasonable accommodations or modifications can be provided.