COMPUTED TOMOGRAPHY - UNDERGRADUATE CERTIFICATE

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Gain the skills to excel in Computed Tomography with Kent State's undergraduate certificate program. With a blend of theoretical knowledge and practical experience, this program equips you with the skills needed to operate computed tomography equipment and perform diagnostic scans. Enroll now and take the first step towards a rewarding career in healthcare. Read more...

Contact Information

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- Chat with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online
  - Mostly online
- **Location:**
  - Salem Campus

Admission Terms

- Fall

Admission Requirements

Admission to this program is selective. Applicants must have graduated from a program in radiologic technology, diagnostic medical sonography, nuclear medicine or radiation therapy and be a registered or registry-eligible radiologic technologist, diagnostic medical sonographer, nuclear medicine technologist or a radiation therapist. Applicants must have a minimum 2.50 overall GPA prior to program entry.

The program begins in fall with an application deadline of July 1 each year.

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements [1]		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I (min C grade)	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II (min C grade)	2
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I (min C grade)	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY (min C grade)	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I (min C grade)	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I (min C grade)	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II (min C grade)	2
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II (min C grade)	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II (min C grade)	2
Minimum Total Credit Hours:		**18**

[1] Students are encouraged to register for the following courses during the summer term: RIS 44068 is a review course for the national certification exam. RIS 44069 allows students to gain added experience in MRI and to complete required clinical competencies for the ARRT exam. These courses not required to graduate with the certificate.

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- All clinical education courses must be completed and with successful passage of all required clinical competencies.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Fall Semester		Credits
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
	Credit Hours	**10**
Spring Semester		
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
	Credit Hours	**8**
Summer Term		
Optional courses		
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	

RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	
	Credit Hours	**0**
	Minimum Total Credit Hours:	**18**

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge to the practice of computed tomography.
2. Effectively utilize critical thinking, problem-solving and decision-making skills in the practice of computed tomography.
3. Effectively communicate in oral and written form with patients, customers and all members of the health care team.
4. Successfully perform computed tomography procedures and attain results of high diagnostic value, while providing patient care.
5. Exhibit personal and professional attributes and values relevant to the practice of computed tomography.

Full Description

The Computed Tomography undergraduate certificate provides coursework in anatomy, patient management, procedures and image production. Students observe computed tomography procedures, perform procedures under direct supervision of registered technologists and complete required clinical competencies toward the national certification exam for computed tomography or to be applied toward continuing education requirements as deemed by the American Registry of Radiologic Technologists (ARRT)

Computed tomography (CT) scans are ordered on trauma, cancer and non-trauma patients and is often the first diagnostic imaging exam ordered on patients. A computed tomography technologist works in hospitals or outpatient healthcare facilities using a CT scanner with an x-ray unit that rotates to image anatomy in the body as slices. The images are assembled and reconstructed digitally to create a series of diagnostic images that physicians use to interpret for a patient diagnosis.

The Computed Tomography certificate offers a seamless transfer pathway into the Bachelor of Radiologic Imaging Sciences Technology (B.R.I.T.) degree. Students are able to complete the certificate, sit for the national certification exam, begin working in the profession and then enroll in the B.R.I.T. degree and complete the remaining requirements to earn the bachelor's degree.

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.