# COMPUTED TOMOGRAPHY CERTIFICATE IN APPLIED SCIENCE

## Program Description

This program prepares the post-graduate registered technologist to use x-rays and computed radiologic technology to produce cross-sectional anatomical images of the human body for diagnostic testing, radiation therapy treatment planning and nuclear medicine PET scanning.

The Computed Tomography program is a full-time, one-semester program consisting of online didactic courses and clinical requirements performed, if possible, close to the student's home at a local clinical site. The clinical component is designed to meet clinical competency requirements of the American Registry of Radiologic Technologist (ARRT).

## Mission Statement

The mission of the Computed Tomography program is to provide well trained and knowledgeable, entry-level CT technologists to meet the needs of the medical community.

## Type of Program

Full-time, distance education (online with clinical component)

## Entrance Requirements

High school diploma or GED

Current certification as a radiologic technologist, radiation therapist or nuclear medicine technologist (ARRT or NMTCB registered). State certification is required, if applicable.

- Recent graduates of a radiography, nuclear medicine and/or radiation therapy program may apply to the program but are required to pass the ARRT registry exam for their discipline no later than four weeks after beginning the Computed Tomography program.

See "Program Requirements" Section for additional requirements.

## Professional Credentials

Registered Computed Tomography Technologist (subject to passing ARRT registry exam)

## Program Accreditation

- This program is recognized by the American Registry of Radiologic Technologists.

## Employment Opportunities

Hospitals, outpatient imaging centers, radiation therapy centers, mobile imaging, sales, applications

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Visit https://www.gvltec.edu/academics_learning/licensure-disclosures/index.html (https://www.gvltec.edu/academics_learning/licensure-disclosures/) for important information concerning educational requirements for professional licensure in a specific state or territory.

## Program Requirements

Prior to acceptance into the program, the student must

- Be a registered radiologic technologist (ARRT), radiation therapist (ARRT) or registered nuclear medicine technologist (ARRT or NMTCB) or registry eligible.
- Have state certification in radiography, nuclear medicine or radiation therapy in the state of employment or location of the clinical rotation site.
- Have earned a grade of "C" or higher in Anatomy and Physiology I and II.
- Meet the specific program requirements outlined in the School of Health Sciences admissions requirements.

## General admissions requirements

- Submit a Greenville Tech application.
- Provide a completed Greenville Tech physical exam form completed by a physician, physician's assistant or nurse practitioner documenting current immunization requirements.
- Submit a copy of current ARRT card and state certification if applicable.
- Submit a copy of current CPR card.
- Submit official college transcripts documenting completion of a radiography, nuclear medicine and/or radiation therapy program.
- View an online Career Talk Session for the Computed Tomography program.
- Complete Pre-Clinical Orientation.
- An acceptable criminal background check is required.
- Students must be able to attend all clinical experiences.
- A negative 10-panel drug screen is required.

## Requirements for Completion

- Students must maintain a grade of "C" or higher in all required courses to remain in the program.
- Up to three courses may be taken by non-program registered technologists for continuing education.
- Registered radiologic technologists employed full-time in computed tomography may exempt the clinical component of the program with appropriate documentation and permission of the program coordinator.
- Students are required to attend a one-hour online class and an average of 18 hours of clinical experience weekly. Students must complete 270 hours of clinical experience for the Computed Tomography program.
- Upon successful completion of the program, the student may sit for the ARRT Advanced Registry in Computed Tomography.

## Recommended Program Schedule

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

| Course | Title | Hours |
|---|---|---|
| **Fall Semester** | | |
| AHS 206 | Cross Sect. Anatomy for Medical Imaging | 2 |
| RAD 103 | Introduction to Computed Tomography | 2 |
| RAD 120 | Principles of Computed Tomography | 3 |
| RAD 135 | CT Body and Musculoskeletal Protocols | 2 |
| RAD 140 | Computed Tomography Clinical App I | 6 |
| RAD 145 | CT Physics and Instrumentation | 3 |
| **Total Required Credit Hours** | | **18** |