

Computed Tomography

Computed Tomography Certificate in Applied Science

Mission Statement:

To provide well trained and knowledgeable, entry-level CT technologists to meet the needs of the medical community.

Entrance Requirements:

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

Type of Program:

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

Professional Credentials:

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

Employment Opportunities:

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

- 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).
- Upon successful completion of the program, the student may sit for the ARRT Advanced Registry in Computed Tomography.
- 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.
 - 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 School of Health Sciences admissions requirements.
- General admissions requirements:
 - Submit a Greenville Tech application with appropriate application fee.
 - 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.
 - A crime-free criminal background check is required.

- ❑ Students must be able to attend all clinical experiences.
- ❑ A negative 10-panel drug screen is required.
- 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.

Recommended Program Schedule

Fall Semester

| | | | |
|-----|-----|--|-----|
| AHS | 206 | Cross-Sectional Anatomy for Medical Imaging | 2.0 |
| RAD | 103 | Introduction to Computed Tomography | 2.0 |
| RAD | 120 | Principles of Computed Tomography | 3.0 |
| RAD | 135 | Computed Tomography Body and Musculoskeletal Protocols | 2.0 |
| RAD | 140 | CT Clinical Applications I | 6.0 |
| RAD | 145 | CT Physics and Instrumentation | 3.0 |

Total Required Credit Hours: **18.0**

Students are required to attend a two-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.

Visit <https://www.gvltec.edu/gainful-employment/> for important information about the educational debt, earnings and graduation rates of students who attended programs.