COMPUTED TOMOGRAPHY

Technical Certificate

Program and Career Description:

Computed Tomography (CT) Technologists are Radiologic Technologists with specialized training who use a rotating x-ray unit and sophisticated computers to obtain detailed, cross-sectional images of patient anatomy. The images can demonstrate tissue, bones, organs, and blood vessels. The CT technologist prepares images for use by physicians in diagnosing medical conditions. CT imaging can also be used with biopsies, treatment planning, or interventional procedures. The CT technologist is responsible for imaging, patient care, equipment operation, and safety for both patients and personnel.

How is the Job Market?

Check out *www.jobs4tn.gov* website for information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at *www.bls.gov*. Visit the Occupational Outlook Handbook on this website. Salaries are not guaranteed.

How long is the certificate?

Students enrolled in the Computed Tomography (CT) Technical Certificate will be full-time, 16 semester credit hours, for one semester. The certificate includes online didactic courses and clinical requirements completed at a variety of clinical affiliates. Clinical assignments are made through agreements between Columbia State, the proposed affiliate, and the individual student.

www.columbiastate.edu/radiologic-technology

Opportunities

Columbia State's Computed Tomography certificate prepares the post-graduate registered technologist to use specialized equipment to visualize cross-sectional anatomical structures and aid physicians in the demonstration of pathologies and disease processes. The certificate is a specialty for ARRT registered radiographers, Nuclear Medicine Technology Certification Board (NMTCB) nuclear medicine technologists or radiation therapists. Academic and clinical studies prepare technologists to provide patient care and perform studies utilizing imaging equipment, professional communication and quality assurance in scheduled and emergency procedures. Completers may be eligible to sit for the ARRT post-primary certification exam in Computed Tomography. Examples of places CT Technologists may find employment include trauma centers, hospitals, clinics, urgent care centers, mobile imaging services, commercial sales or applications.

Requirements for Graduation include:

- Total certificate hours must be at least 16
- earning 25% of total program credits in residence at Columbia State.
- GPA of at least 2.0 in courses requird for the certificate.

For more information contact:
radtech@columbiastate.edu
or
Health Sciences Division office at
healthsciences@columbiastate.edu
931.540.2600 or 931.540.2599

For more information about our graduation rates, the median debt of students who completed the program and other important information, please review *Gainful Employment Disclosures* found on the website at *www.columbiastate.edu/consumer-information* for this certificate.

COLUMBIA STATE COMMUNITY COLLEGE

Student ID:_____
Student Name:_____
Adviser Name:_____

Catalog: 2020-2021 Catalog and Student Handbook
Program: Computed Tomography Technical Certificate
Minimum Credits Required:_____

Computed Tomography Technical Certificate

Computed Tomography (CT) Technologists are Radiologic Technologists with specialized training who use a rotating x-ray unit and sophisticated computers to obtain detailed, cross-sectional images of patient anatomy. The images can demonstrate tissue, bones, organs, and blood vessels. The CT technologist prepares images for use by physicians in diagnosing medical conditions. CT imaging can also be used with biopsies, treatment planning, or interventional procedures. The CT technologist is responsible for imaging, patient care, equipment operation, and safety for both patients and personnel.

Required Courses - Total Credit Hours: 16

Students must be accepted into the Computed Tomography program before they can register for RAD courses. **Students enrolled in the Computed Tomography (CT) Technical Certificate will be full-time, 16 semester credit hours, for one semester. The certificate includes online didactic courses and clinical requirements completed at a variety of clinical affiliates.**

Course Name	Credits:	Term Taken	Grade	Gen Ed
RAD 210 - Computed Tomography Patient Management	Credits: 4			
RAD 220 - Computed Tomography Physics	Credits: 4			
RAD 230 - Computed Tomography Clinic	Credits: 8			

Note(s):

Requirements for Certificates Include:

1. Total certificate hours must be 16
2. earn 25% of total program credits in residence at Columbia State
3. earn a GPA of at least 2.0 in program courses
4. earn a cumulative GPA of 2.0 or higher

Students and advisors should run a degree audit from myChargerNet each semester to confirm classes are applicable to the program of study.

For more information about our graduation rates, the median debt of students who completed the program and other important information, please review the Gainful Employment Disclosures for this certificate.

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931.540.2600 or 931.540.2599

Detailed information is also available via *www.columbiastate.edu/computed-tomography*

Admission Process

1. Applicants must meet all college general requirements for admission as a degree-seeking student as stated in the catalog.
2. In addition to completing the application process for admission to Columbia State, students seeking admission to the Computed Tomography Certificate program must complete the program application by June 1. Applications are accepted March 15 - June 1 annually. Applications received after June 1 may be considered on a space available basis.
3. Applicants must be graduates of an accredited Radiologic Technology, Nuclear Medicine, or Radiation Therapy program and eligible for or certified/registered by the ARRT or NMTCB. **Transcripts and copies of credentials/certification are required.**
4. Admission to the program is not guaranteed. Class size is limited. The class will be filled with candidates on a first qualified (all requirements completed), first admitted basis.

Students enrolling in the clinical course (RAD 230 Computed Tomography Clinic) must submit documentation of the following to the division's Health Records Clerk prior to the first day of the semester:

1. Evidence of good health by returning a completed Physical Examination form. Required forms will be provided to students upon the offer of a seat in the class.
2. Students must provide a current negative 2-step TB skin test and/or chest x-ray
3. Clinical Access Documentation Required:
    a. MMR (positive titer)
    b. Varicella Zoster/Chicken Pox (positive titer)
    c. Hepatitis B (vaccine series completion or titer)
    d. Tetanus/Diphtheria (within past 10 years)
4. CPR (Cardiopulmonary Resuscitation) Requirements: All admitted students must submit evidence of current BLS (Basic Life Support) Provider certification compliant with American Heart Association (AHA) standards. Inclusion of two-person CPR and AED (Automatic Electronic Defibulator) use is required. In order to meet clinical affiliate expectations, AHA HeartCode® (blended learning) nor HeartSaver® are accepted. BLS classes are available through numerous providers and are periodically offered by Columbia State through the Workforce & Continuing Education Department. Certification must be maintained continuously for the duration of enrollment.
5. Malpractice insurance is required for the clinical component. A group policy is available. The fee for the required group policy is assessed as part of tuition/fees.
6. Criminal Background check clearance by clinical site.
7. A negative 10-panel drug screen is required

Advanced Standing

Radiologic Technologists credentialed by the ARRT who have independently performed whole-body computed tomography an equivalent of one year full-time within the past three years may qualify for advanced standing for the clinical education component. Competence in the performance of computed tomography of the head, neck, spine, chest, abdomen, pelvis and musculoskeletal system must be documented.

What does the certificate provide?

1. Online didactic instruction and clinical competency development.
2. Supervised practical experience in approved clinical facilities.
3. Clinical procedure volume and variety which meets/exceeds American Registry of Radiologic Technologists (ARRT) exam eligibility requirements.
4. Life-long learning experiences applicable to ARRT continuing education requirements for primary discipline renewal.