Forsyth Technical Community College
2100 Silas Creek Parkway
Winston-Salem, NC 27103-5197

Computed Tomography and Magnetic Resonance Imaging Technology - CT Imaging Technology Expanded Traditional Clinical Certificate

<u>**Applicants must hold current ARRT and/or NMTCB certification and registration in a supporting category or be enrolled in the final semester of a supporting category educational program.**</u>

Fall 2019 Deadline: June 13, 2019
Admissions Information

Computed Tomography and Magnetic Resonance Imaging Technology – The CT Imaging Technology Expanded Traditional Clinical Certificate is a selective enrollment, advanced specialty certificate that provides didactic instruction in core content considered essential in educating technologists in the postprimary practice of computed tomography and facilitated clinical practicums. **The Expanded Traditional Clinical Certificate is designed for credentialed technologists and new graduates wanting to specialize in computed tomography**. The Certificate curriculum is based on the American Society of Radiologic Technologists' Computed Tomography Curriculum and is offered each fall. Applicants must be:

1. ARRT credentialed in radiography, radiation therapy, and/or nuclear medicine technology or
2. NMTCB certified in nuclear medicine technology or
3. In the final semester of a radiography, radiation therapy, or nuclear medicine technology educational program at an accredited, ARRT-approved institution

The Expanded Traditional Clinical Certificate is 32 semester credit hours divided into two semester-specific sub certificates, the Traditional Clinical I (C45200TA) and the Traditional Clinical II (C45200TB). Didactic courses are taught in a traditional classroom environment and clinical practicum courses are completed on the campuses of Forsyth Tech affiliates located in or near Winston-Salem, NC. **Successfully completing all Expanded Traditional Clinical Certificate requirements satisfies the ARRT postprimary pathway certification and registration requirements. Graduates are eligible to purse postprimary certification and registration in CT.**

Resources such as clinical facilities and faculty, as well as approval standards, limit the number of applicants accepted to **8 students** for the fall. A minimum of 4 seats are reserved for applicants currently enrolled in the final semester of a qualifying primary modality educational program. Currently enrolled applicants will only compete for seats with other currently enrolled applicants in the final semester of a qualifying primary modality educational program. If the minimum number of designated seats from either the seasoned technologist or currently enrolled groups is not filled, applicants from either group will be considered for any remaining seats.

The CT Imaging Technology Expanded Traditional Clinical Certificate is an **advanced certificate** and applicants must meet minimum requirements to be considered for admission. **Please note, however, that meeting minimum requirements does not guarantee admission**.

Program specific questions should be directed to Cindy Smith, Program Coordinator for CT, at 336-734-7560 or csmith@forsythtech.edu. Qualified applicants will be ranked based on criteria listed in this packet. Applicants not admitted to the program must reapply and complete a new MAR Review if they wish to be considered for the following year's class.

PHASE I: APPLICATION PROCESS

The following steps must be completed by June 13, 2019 for the fall 2019 program. Please note that you are **NOT** required to participate in an Allied Health Information Session.

1. Complete the Residency Determination Service (RDS) and a Forsyth Tech application. If currently enrolled in classes at Forsyth Tech, complete the update form in the Admissions Office.

2. Have official transcripts from all colleges or schools attended since high school (with the exception of Forsyth Tech) sent to the Admissions Office. Hospital-based transcripts must report the final cumulative GPA on a 1.0 – 4.0 scale. Official transcripts must have the school seal or original signature and be in a sealed unopened envelope or submitted electronically from the school. Electronic transcripts should be sent to Admissions@forsythtech.edu. Official college transcripts should be received and evaluated before a MAR is conducted. Evaluation of transcripts typically takes 5-7 business days to complete once transcripts have been received. Please do NOT bring in transcripts the day you come to complete your MAR review. Due to the differences in program structures, CT specific and/or related courses are ineligible for transfer credit.

3. Submit proof of ARRT and/or NMTCB certification and registration to the Admissions Office.

NOTE: The information provided in this packet is subject to change annually.

PHASE II: MINIMUM ADMISSIONS REQUIREMENTS

1. **Certification and Registration**
     Applicants must be:
     - ARRT credentialed in radiography, radiation therapy, and/or nuclear medicine technology or
     - NMTCB certified in nuclear medicine technology

2. **Grade Point Average (GPA)**
     Minimum final cumulative GPA in primary pathway educational program
     - Radiography: 3.0
     - Radiation Therapy: 3.0
     - Nuclear Medicine Therapy: 2.75

3. **Student Application and Admission Requirements**

   In addition to completing Phase I, student applicants must meet the following criteria to be considered for admission:
   1. In the final semester of a qualifying primary pathway educational program at an accredited, ARRT-approved institution
   2. Minimum Cumulative GPA through Fall 2018:
      - Radiography: 3.0
      - Radiation Therapy: 3.0
      - Nuclear Medicine Therapy: 2.75
   3. Be formally recommended by the Program Coordinator or Director of the supporting primary pathway educational program
      - A formal letter of recommendation should be addressed to:
        Forsyth Tech
        2100 Silas Creek Parkway
        Winston Salem, NC 27103
        ATTN: Heather Azzu, Coordinator of Admissions

   Student acceptance is contingent upon the applicant satisfying all admission requirements prior to the start of the 2019 fall semester:
   1. Submit an official final transcript (see item 3 under Phase I on page 2 for additional information) from the college or school attended (with the exception of Forsyth Tech) documenting completion of a primary pathway educational program with a minimum final cumulative GPA of :
      - Radiography: 3.0
      - Radiation Therapy: 3.0
      - Nuclear Medicine Therapy: 2.75
   2. Submit proof of ARRT or NMTCB certification and registration in supporting discipline to Heather Azzu, Coordinator of Admissions.
      - Hand Deliver: 2361 Strickland Center
      - Mail: Forsyth Tech, 2100 Silas Creek Parkway, Winston Salem, NC 27103, ATTN: Heather Azzu
      - eMail: hazzu@forsythtech.edu

   Applicants who do not satisfy the program requirements by required dates will lose their seat in the program for Fall 2019.

3. **Cardiopulmonary Resuscitation (CPR) Certification**

   Applicants who are accepted must also hold current American Health Association Health Care Provider cardiopulmonary resuscitation (CPR) certification prior to the start of the 2019 fall semester. CPR certifications can be completed through Forsyth Tech's Economic and Workforce Development - Education Division (336- 761-1002).

PHASE III: MINIMUM ADMISSIONS REQUIREMENTS (MAR) REVIEW

After **completion** of Phase I and II, applicants are eligible to meet with an Admissions Counselor to complete the Minimum Admissions Requirements (MAR) Review. Applicants who wish to be considered for the fall 2019 program **must** complete the MAR Review between the dates of September 5, 2019 and the deadline of June 13,

2019. Applicants for the fall 2019 program will not be considered for admission until this step is completed. Please do NOT bring in college transcripts the day you come to complete your MAR review, as the Admissions Office is not the office responsible for transcript evaluations.

Due to new state regulations regarding residency, applicants are strongly encouraged to complete both RDS and the online application prior to coming in to complete the MAR. It may not be possible to complete both steps at the time of MAR. This is of particular note to applicants applying close to the deadline.

The Admissions Office hours for the MAR Review are 8:00 a.m. – 6:00 p.m. Monday through Thursday. The review is done on a walk-in basis and no appointment is necessary. The Admissions Office is located in the Strickland Center, room 2361. **Please note that only one counselor is available after 5:00 p.m.**

When can the MAR Review be completed?

Fall 2019 Applicants

If you are applying for fall 2019 and are a credentialed technologist applicant, you can complete your MAR:	If you are applying for fall 2019 and are a currently enrolled student graduating in 2019, you can complete your MAR:
September 5-June 13*	**January 22-June 13***

*MAR reviews will not be conducted October 8-12, November 12, November 19-23,
December 17- January 18, January 21, February 18-22 and March 18-22.

Reminder: MAR reviews will not be conducted on Fridays.

PHASE III: RANKING PROCESS

After completion of Phase I and II, applicants who complete a MAR Review are ranked using a point system. As this is a selective enrollment program, it is in the student's best interest to achieve as many ranking points as possible. The components of the ranking system include the following items:

1. Academic Performance (GPA) in Primary Pathway Educational Program: 20 Point Maximum

GPA	**Points**
3.75 - 4.00	20
3.50 - 3.74	15
3.25 - 3.49	10
3.00 - 3.24	5

2. Scaled ARRT and/or NMTCB Registry Score: 20 Point Maximum

Score	**Points**
94% and Up	20
89% - 93%	15
84% - 88%	10
75% - 83%	5

3. Additional Certification and Registration: 10 Point Maximum

Credential		Points
(R)	Radiography*	2
(N)	Nuclear Medicine*	2
(T)	Radiation Therapy*	2
(MR)	MRI	2
(S)	Sonography	2
(M)	Mammography	2
(QM)	Quality Management	2
(BD)	Bone Densitometry	1
(CI)	Cardiac-Interventional Radiography	2
(VI)	Vascular-Interventional Radiography	2
(CV)	Cardiovascular-Interventional Radiography	2
(VS)	Vascular Sonography	2
(BS)	Breast Sonography	2
R.R.A.	RA - Radiologist Assistant	2

*Second credential using primary pathway

4. Professional Experience: Full or Part Time Employment as a properly credentialed Technologist in a supporting discipline within the past 5 Years: 20 Point Maximum

Time	Points
More than 5 Years	20
3 - 5 Years	15
1 - 2 Years	10
6 Months - 1 Year	5

*The applicant must submit a signed and dated letter on facility letterhead, written by his or her **direct supervisor** verifying hire date, separation date if applicable, and a description of duties performed. The student is responsible for verifying the required information is provided **before** submitting the letter to Admissions. **All** requested information must be provided in order for Professional Experience points to be awarded **Falsified work experience terminates the application process and renders the applicant ineligible for admission to the CT Imaging Technology Program.***

Total Points for Ranking

Adding together the points from the areas above will determine the total score. Students with the highest point total will be accepted. In the event of a tie, the person with the highest actual primary modality educational program GPA will be the determining factor. Currently enrolled students are ranked using the cumulative GPA through Fall 2018. If an additional tiebreaker is needed, the **completion** dates of Phase I will be the determining factor. An alternate list will also be developed. Alternates will only be accepted if a student originally accepted, declines their seat. Applicants not admitted to the program must reapply if they wish to be considered for the following year's class.

Notification Procedure

Notification letters will be mailed to accepted students. If an applicant did not meet the minimum requirements or was not accepted or declined admission, he or she must submit a new application and complete the MAR Review for the 2020 CT Imaging Technology Expanded Traditional Clinical Certificate by the specified deadline.

CT Imaging Technology Program TENTATIVE Curriculum Schedule Expanded Traditional Clinical Certificate

C45 200 TA Fall Semester: 16 Credit Hours

Course	Credit Hours	Course Name	M	T	W	R	F
CAT 210-100	3.00	CT Physics & Equipment		2:00p-3:20p		2:00p-3:20p	
CAT 210A-100	1.00	CT Physics & Equipment		3:30p-4:25p		3:30p-4:25p	
CAT 212-100	3.00	CT Sectional Anatomy		10:00a-11:20a		10:00a-11:20a	
CAT 215-100	3.00	CT Procedures		12:00p-1:20p		12:00p-1:20p	
CAT 226-100	6.00	CT Clinical Practicum	9:00a-3:50p		9:00a-3:50p		9:00a-3:50p

C45 200 TB Spring Semester: 16 Credit Hours

Course	Credit Hours	Course Name	M	T	W	R	F
CAT 211-100	4.00	CT Procedures		12:00p-1:50p		12:00p-1:50p	
CAT 214-100	3.00	CT Pathology		10:00a-11:20a		10:00a-11:20a	
CAT 228-100	8.00	CT Clinical Practicum	8:00a-4:45p		8:00a-4:45p		8:00a-4:45p
CAT 261-100	1.00	CT Exam Prep*		2:30p-4:10p		2:30p-4:10p	

*Course begins the last four weeks of the semester

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2017

CT Imaging Technology Program
Expanded Traditional Clinical Certificate
Technical Standards for Admission and Progression

Computed Tomography integrates scientific knowledge, technical competence, and patient interaction skills to provide safe and accurate procedures with compassion. A computed tomography technologist recognizes patient conditions essential for the successful completion of the procedure.

Computed tomography (CT) technologists must demonstrate an understanding of human anatomy, human physiology, pathology, and medical terminology. They must maintain a high degree of accuracy in positioning and exposure technique. CT technologists must possess, utilize, and maintain knowledge about radiation safety. CT technologists prepare, administer, and document activities related to medications and radiation exposure in accordance with federal and state laws or lawful institutional policy.

CT technologists independently perform or assist the licensed independent practitioner in the completion of diagnostic, therapeutic, interventional, and fusion computed tomography procedures.

CT technologists are the primary liaison between patients, licensed independent practitioners, and other members of the support team. CT technologists must remain sensitive to the needs of the patient through good communication, patient assessment, patient monitoring, and patient care skills. As members of the health careteam, CT technologists participate in quality improvement processes and continually assess their professional performance.

CT technologists think critically and use independent, professional, and ethical judgment in all aspects of their work. They engage in continuing education to include their area of practice to enhance patient care, radiation safety, public education, knowledge, and technical competence.*

American Society of Radiologic Technologists. (2016, October 21). *Practice Standards*. Retrieved from American Society of Radiologic Technologists Web site: http://www.asrt.org

I. Cognitive Skills

    A. Critical thinking ability sufficient for safe clinical judgment

        1. Example: Function safely and effectively in high stress situations

        2. Example: Maintain composure while managing multiple tasks simultaneously

        3. Example: Assess patient condition and needs

    B. Possess satisfactory intellectual and emotional functions to analyze information obtained during assessment to develop an action plan for patient care and completing the procedure

        1. Example: Identify cause-effect relationships in clinical situations

        2. Example: Initiate proper emergency care protocols based on assessment data

    C. Exercise independent judgment and discretion in the technical performance of CT imaging

        1. Example: Evaluate images to ascertain diagnostic quality

        2. Example: Select technical factors and accessory devices for procedures with consideration of patient size, age, and extent of disease

II. Interpersonal Skills

    A. Possess adequate interpersonal skills sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds regardless of age and physical condition

        1. Example: Display patience, empathy, and concern for others

        2. Example: Deal with fear and hostility in a calm manner

        3. Example: Work with others in stressful situations

III. Communication Skills

    A. Communication abilities sufficient to interact with others using written, verbal, and nonverbal methods to articulate information in a prompt, coherent, and concise manner

        1. Example: Communicate patient instructions in a prompt, clear, and concise manner

        2. Example: Accurately document pertinent patient history and exam information

3. Example: Document actions and responses when indicated

    B. Must be able to follow spontaneous verbal and written instructions

        1. Example: Gathers relevant information from the patient, medical record, significant others and health care providers

IV. Mobility Skills

    A. Physical abilities sufficient to move independently with a normal range of motion

        1. Example: Respond promptly to patient needs

        2. Example: Manipulate equipment

    B. Must be able to bend, crouch, squat, kneel, balance, reach above head, and twist at waist

    C. Must be able to stand, sit, or walk for extended periods

        1. Example: Respond promptly to patient needs

        2. Example: Manipulate equipment

        3. Example: Lift a minimum of 30 pounds

        4. Example: Exert a sustained force of 20 pounds

        5. Example: Push/pull equipment weighing up to 300 pounds

        6. Example: Participate in a team move of an incapacitated patient weighing 150 pounds, ensuring patient safety

V. Motor Skills

    A. Gross and fine motor abilities sufficient to safely and effectively perform job tasks and respond to patient needs

        1. Example: Ability to grasp, hold, grip, seize, turn, or otherwise manipulate equipment with hands

VI. Sensory Skills

    A. Hearing perception sufficient to monitor and assess patient needs and equipment operation

        1. Example: Hear a patient speaking in a normal tone without the use of hearing assistive devices

        2. Example: Detect and evaluate monitor alarms and equipment alerts

    B. Visual acuity sufficient to observe and assess patient needs and equipment operation

        1. Example: Observe and monitor patients

        2. Example: Evaluating images for technical quality

    C. Tactile ability sufficient to assess patient condition and operate equipment

        1. Example: Perform palpation, tactile assessment, and manipulate anatomy to insure proper placement and alignment

        2. Example: Manipulate computer mouse, pressure sensitive response pads, dials, buttons, and switches