Cardiovascular Sonography
Program Checklist

Forsyth Tech COMMUNITY COLLEGE

☐ **Submit Transcripts.**
- High School or GED
- All Colleges where program related courses were completed

The following items must be completed to apply to the Cardiovascular Sonography Program.

☐ **Complete Forsyth Tech Admissions Application.**

Submit a FT Admissions Application if it's been more than 1 year since you applied

☐ **Minimum Requirements English, Math & Biology**
- Must be ready to take ENG‒111 and MAT‒143 without a co‒requisite course, by having completed past ENG and MAT courses, High School unweighted GPA 2.5 or higher, test scores, associate or bachelor's degree.
- Must have Biology class. High school (D or higher, college C or higher)

☐ **Complete All Related Courses**

The following courses are the related classes, they must be completed before you apply.

BIO 163, or BIO 168, BIO 169, ENG 111, PSY 150, COM 231, MAT 171, PHY110/110A, Humanities & Fine Art Elective.   (see page 6 of MAR packet)

☐ **Complete the TEAS Exam**
- Scores expire 2 years from date taken and must remain valid through the deadline.
  Minimum Score requirement 70%.

☐ **Submit the MAR Application (March 3, 2025, until May 16, 2025)**

(see page 4 of MAR packet)

☐ **CNA, I Certified Nursing Assistant**

Students are required to complete the Nursing Assistant I Course and be listed on the North Carolina Nurse Aide I Registry from an Approved North Carolina NAI program. CNA II, CMA, EMT, Paramedic, or Military Corps man will be accepted.

Cardiovascular Sonography

Fall 2025 Deadline: May 16, 2025

Cardiovascular Sonography is a selective enrollment Associate degree program beginning each fall.

5 students are admitted for each Fall semester.

All applicants must meet minimum requirements to be considered for admission. **Please note that meeting minimum requirements does not guarantee admission**.
This program does not reserve seats for current high school seniors, however high school seniors who are dual enrolled and have completed college courses listed under the related courses section of this packet may compete against other college students for admission. Please note, meeting minimum requirements Does not guarantee admissions.

Special note: If you are just starting to work on taking classes to become competitive in the future – please look at the Related Courses on to guide you. **It is required that you complete all related classes before you participate in the selective admission process**.

1. Complete an application to Forsyth Tech

New and Former students (if it's been more than a year since you applied or enrolled in classes) must complete the online application at https://www.forsythtech.edu/apply-ft/
Complete NC Residency at www.ncresidency.org

Currently enrolled students do not need to submit a new application.

2. Submit official transcripts.

Electronic transcripts can be sent through a secure service to admissions@forsythtech.edu
-or paper transcripts can be mailed to Forsyth Technical Community College Attn: Admissions 2100 Silas Creek Parkway Winston Salem, NC 27103-5197
-or hand delivered in a **sealed** envelope to the Admissions and Records Office on the main campus
-**emailed copies from you are NOT official**

We must have:
- Official college transcripts where related classes were taken. Only undergraduate classes through bachelor's degree level, we do not need graduate level transcripts.
- Official AP scores from College Board if you want credit for applicable classes (credits showing on other college transcripts do not count).
- It is recommended to submit your graduating High School (or GED) transcript, or you may miss placement requirements.

3. <u>Check that you meet the minimum readiness levels.</u>

CONFIRM with your advisor if you are unsure if you meet the requirements

All Health Program applicants are required to demonstrate English and Mathematics college readiness by one of the following methods:

COLLEGE ENGLISH READINESS	COLLEGE MATHEMATICS READINESS
❐ **Option 1:** You have completed or received transfer credit for ENG 111.	❐ **Option 1:** You have completed or received transfer credit for <u>one</u> of the following -- MAT 143, MAT 152, MAT 171 (or a higher-level math).
❐ **Option 2:** You have completed or received waiver credit for <u>all</u> the following: DRE 096, DRE 097, DRE 098	❐ **Option 2:** You have completed or received waiver credit for <u>all</u> of the following: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050
❐ **Option 3:** You have completed or received waiver credit for ENG 002 with a minimum grade of **<u>P2</u>**	❐ **Option 3:** You have completed or received waiver credit for MAT 003 with a minimum grade of **P2**
❐ **Option 4:** You have completed or received waiver credit for ENG 011 or are currently enrolled in ENG 111/011	❐ **Option 4:** You have completed or received waiver credit for MAT 043 or are currently enrolled in MAT 143/043
❐ **Option 5:** An earned Associate or Bachelor's degree from a regionally accredited institution	❐ **Option 5:** An earned Associate or bachelor's degree from a regionally accredited institution
❐ **Option 6:** Completion of placement test and achievement of appropriate scores. <u>If you took the placement test elsewhere,</u> <u>you MUST submit those scores to Forsyth Tech Admissions & Records</u>	❐ **Option 6:** Completion of placement test and achievement of appropriate scores. <u>If you took the placement test elsewhere,</u> <u>you MUST submit those scores to Forsyth Tech Admissions & Records</u>
❐ **Option 7:** Graduate of a US high school with a GPA of 2.5 or higher	❐ **Option 7:** Graduate of a US high school with a GPA of 2.5 or higher

Biology competency
There are two ways to demonstrate this:
- College-level course with a "C" or better
- High school-level course with a "D" or better

When we receive the MAR application it will be reviewed to make sure you meet the minimum requirements including taking the TEAS test and meeting the required score. If you do not meet these requirements, you will not be eligible and will not be placed into the applicant pool.

<u>If applying to more than one program (you can apply to up to three programs at a time) be sure that you have checked the MAR packet for that program to ensure that you meet the minimum requirements and have taken the necessary related cour</u>

4. Submit the MAR application

Access the online application here:
CVS MAR application
Application is open March 3, 2025, until May 16, 2025

What to expect after submitting the application:

- Submitting the MAR application adds you to the MAR review list.
- Your paperwork will be emailed to you after your MAR application is reviewed. This can happen throughout the application process even up to two weeks after the deadline **so do not expect to be notified immediately.**
- Check your **Forsyth Tech email** and keep your phone and address updated with the school. We will email your MAR application paperwork to your Forsyth Tech email.
- Within 6 weeks after the deadline, you will be notified of your status – admitted, alternate, or not admitted regardless of the decision.
- If you are admitted to the program, there will be instructions in your admission letter with requirements that apply to admitted students – **make sure to meet any of those deadlines/requirements or you can lose your seat in the program.**
- If you are an alternate, we will contact you by phone or email if any seats open in the program.

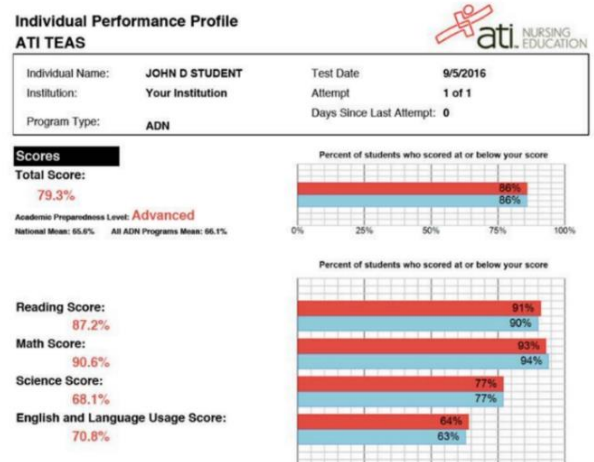## 5. Attach a copy of your TEAS score report to the MAR application

Click here to schedule your test: **Link to Schedule TEAS**

You must submit the score report that shows scores for **ALL** sections of the test as well as the overall score. (*see picture*)
Scores are valid for 2 years from the date taken and must not expire before the application deadline

Download your report (no need to pay to request an official report) and attach a copy to your MAR application.

TEAS tests taken at Forsyth Tech are **not automatically submitted** with applications. When filling out the MAR application, there will be a question asking you to upload your TEAS score report. This is a REQUIREMENT. **MAR applications will not be accepted without a valid TEAS score report**.

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6. <u>Additional Requirements for Accepted Students</u>

It is strongly recommended that you begin working on these certifications prior to acceptance to the Cardiovascular Sonography program. Nurse Aide I and CPR training courses fill up quickly. If you are unable to complete these requirements by the deadline set by the CVS department after acceptance, you will lose your seat in the program.

Accepted students must hold current healthcare provider level CPR certification through the American Heart Association by the first day of class, clinical, or end of first semester. CPR certification can be completed through Forsyth Tech's Corporate and Continuing Education Division (336-734-7023). CPR will also be completed during the NA I class.

In addition to the CPR requirement, accepted applicants **must complete and pass NC state approved Nursing Assistant I (NA I) by the first day of Fall 2025 semester**. You do not need to take the tests to be on the registry, you only need to pass the class.

NA I is usually a 6-week course so students must begin the course in time to complete it by the deadline. The CNA I must be complete at an accredited program in the state of North Carolina. Possession of a higher–level certification such as Certified Nursing Assistant I or II (CNA I or II), Certified Medical Assistant (CMA), Emergency Medical Technician (EMT B or I), Paramedic or Military Corpsman will also be accepted to meet this requirement. If a student is already CNA I certified, it must be current at the time of MAR application.

Approved students must provide the appropriate documentation to the Cardiovascular Sonography Program Coordinator's office to verify the completion of these requirements by **the first day of Fall 2025 semester**. CNA I, EMT, and CPR certifications can be completed through Forsyth Tech's Economic and Workforce Development-Education Division (336-734-7023). CPR is included in the NA I course.

Understanding the Ranking Process

When the MAR application and TEAS score requirements are met, qualified applicants are ranked using a point system. The points come from the grades in the "related courses" that are part of the program and will not only give you points but also lighten the course load if you are admitted into the program. Then your TEAS total score is added to the Related Course points to give you the score that you are being ranked with in the competition for the program.

1. **Related Courses**

Points are awarded for course grades **completed by the deadline**.
                **You are required to finish all these classes before applying. **
Grade points are valued as follows: A = 4 points, B = 3 points, C = 2 points.
These points are then multiplied by the credit hours for each course.
For example, ENG 111 (3 credit hours) with a grade of B (3 points) gives a student 9 total points for that course.
AP credit is based upon the individual scores as follows: 5=A=4 points, 4=B=3 points and 3=C=2 points.
Please note that if a course is repeated, the highest grade earned will be used in the ranking.

> Related Courses – College Level Only
> *BIO 163 or BIO 165 **&** 166 or BIO 168 **&** 169
> ENG 111
> ENG 115 or COM 231
> PSY 150 or PSY 118
> **MAT 171 or higher-level math course
> PHY 110/110A or higher-level physics course
> Humanities/Fine Arts elective

*To qualify for ranking points and transfer credit, courses must satisfy the required semester hours and descriptions. Please note that BIO 165 & 166 must be completed at the same college or university to transfer. Applicants completing BIO 168 & 169 are not restricted to taking both anatomy courses at the same college or university. Since BIO 163 is the preferred curriculum course, students taking the two-part sequence (BIO 168/169 or 165/166) should be aware that the two grades are averaged and multiplied by five credit hours to calculate an equivalent BIO point total.
** Statistics will not count towards ranking points or transfer credit.

Please note that if a course is substituted for points, it does not guarantee that it will count towards graduation. Accepted students must confirm the course substitution with the program department chair during their first semester in the program**.**

2. **TEAS Total Score**

An applicant must test and meet the required minimum 70% or higher Total Score on the TEAS. This score will be used as part of the ranking process.

3. **Additional Points:**

Must be submitted before the MAR application.

Points will be awarded for the completion of the following. Please note these are NOT requirements for admission to the program. Appropriate documentation must be submitted for these points to be awarded.

> ==10 points – CNA I== (must be valid and current)
> The possession of a higher-level certification such as but not limited to Certified Nursing Assistant II, Certified Medical Assistant (CMA), Emergency Medical Technician (EMT B or I) Paramedic or Military Corpsman can also qualify for the 5 points with verification of valid and current registry.

> ==(1-10 points) - Volunteer Scan Lab points==
> Additional Points will be given for participating as a volunteer for the scanning lab. These volunteer scan labs are done during the spring semester. Please Contact the Program Coordinator Mr. Wood at dwood@forsythtech.edu for the schedule in January. The time slots are offered on a first come first serve basis.

4. **Total Points for Ranking**

CVS PROGRAM ADMISSIONS PROCESS POINTS SUMMARY			
CATEGORY 1	TEAS SCORE **99 PTS POSSIBLE** (MIN 70 TO BE ELIGIBLE FOR CVS PROGRAM)		40% OF OVERALL MAR SCORE
CATEGORY II	RELATED COURSE GRADES SUMMARY	**ADDITIONAL POINTS (CNA or other certification and/or Volunteer for Scanning Lab)**	60% OF OVERALL MAR SCORE

Adding together the related courses grade points and additional points will determine 60% of the total score while the TEAS will count for 40% of the score total. Your TEAS score is not added directly to the point total as it has been in years past. Students with the highest point total will be accepted. In the event of a tie, the applicant with the higher Science Score on the TEAS will be ranked higher. An alternate list will also be developed. Applicants not admitted to the program must reapply **and** complete a new MAR application if they wish to be considered for the following year's class.

Accepted student data from the previous 3 years

Please note that the data below is for informational purposes only! Points and criteria vary each year. It is in a student's best interest to accumulate as many points as possible to be as competitive as possible.

Year	Number of qualified applicants	Point range of accepted students
2024	21	102.6 – 92.3
2023	19	105.8 - 91
2022	10	89.7 - 99.68

Forsyth Technical Community College
Sonography Curriculum
Technical Standards for Curriculum Completion

        The Associate Degree in Applied Science in Cardiovascular and Medical Sonography signifies that the graduate is prepared for entry into the practice of sonography. Therefore, the graduate must have both the knowledge and skills to function in a broad variety of situations and to render a wide spectrum of health-related services.

Candidates for the degree must have a variety of abilities and skills in the areas of:

    A. Observation
    B. Communications skills
    C. Motor and function
    D. Intellectual: Conceptual, Integrative, and Quantitative
    E. Behavioral and Social Skills

> Technical compensation (i.e. eyeglasses, hearing aides) can be made for some handicaps in certain areas but a candidate must be able to perform in a reasonably independent manner.

    A. **Observation** - abilities required of a candidate include sight sufficient to:

    1. Skillfully use precision instruments such as microscopes, oscilloscopes, gauges, control panels, and other electronic digital equipment.
    2. Observe and evaluate (i.e. patient's body habitus, transducer selection).
    3. Observe the results of technical factors (i.e. image critique).
    4. Observe the results of certain stimuli (i.e. medication reaction).
    5. Observe changes in equipment operation (i.e. see loss of quality of equipment).

> The senses of vision, smell and hearing are necessary for a candidate to effectively function in the Sonography Curriculum.

    B. **Communication Skills -** required by candidates include: the ability to speak, hear, and observe patients to:

    1. Elicit information and cooperation (i.e. questioning of patient, giving breathing instructions).
    2. Describe changes in mood, activity, and posture.
    3. Perceive nonverbal communication (i.e. pain, lack of understanding).

> A candidate must be able to communicate effectively and sensitively with patients, including not only speech and hearing, but reading, writing, and electronic forms. A candidate must be able to communicate effectively and efficiently in oral and written form with members of the health care team.

    C. **Motor and Function -** Abilities required of a candidate include gross and fine muscular movements, equilibrium, strength, and functional use of the senses of touch and vision for the handling of patient, self, and equipment too:
    1. Elicit information from patients by palpation, auscultation, percussion, testing muscle strength and function, penetration of the skin, and other diagnostic maneuvers.
    2. Safely perform procedures.
    3. Provide other patient services and patient associated services.
    4. Safely lift, manipulate, and use equipment.

A candidate must have these abilities to provide safe care for patients in various states of mobility and awareness.

      D. **Intellectual: Conceptual, Integrated and Quantitative** – Abilities required of a candidate include measurement, calculation, reasoning, analysis, and synthesis to:

        1. Solve problems (i.e. mathematical computation).
        2. Comprehend three dimensional relationships (i.e. anatomical relations).
        3. Understand the spatial relationship of structures.

A candidate must have these abilities to accurately perform sonographic techniques to produce quality sonograms.

      E. **Behavioral and Social Skills** – required of candidate:

        1. Allow mature, sensitive and effective relationships with patients, clients, and fellow workers (interpersonal skills).
        2. Tolerate physically taxed workloads.
        3. Function effectively under stress.
        4. Adapt to changing environments (i.e. flexible schedules).
        5. Display flexibility and ability to function during uncertainty inherent in health care (i.e. emergency conditions).
        6. Display:
          a. Compassion
          b. Empathy
          c. Integrity
          d. Concern for others
          e. Interest and motivation

A candidate must have these abilities to provide empathetic support to patients where quality care is dependent on a team approach.

All the above abilities, skills, and knowledge in a candidate will be continually tested and evaluated during the educational process of this curriculum.