



FALL 2024

CARDIOVASCULAR SONOGRAPHY AAS

Application Period

Jan 11, 2024 - extended to
April 25, 2024



Minimum requirements are subject
to change each academic year.

ASSOCIATE IN APPLIED SCIENCE in CARDIOVASCULAR SONOGRAPHY

Selective Admission Process: this program requires a separate, program specific application in addition to admission to the college; all application deadlines are firm

Application Period: January 11, 2024 through April 25, 2024 (extended 3/25/24)

MINIMUM REQUIRMENTS ARE SUBJECT TO CHANGE EACH ACADEMIC YEAR

The fall 2024 selection process is subject to change when extenuating circumstances arise. If any changes arise involving CFCC's ability to adhere to the information below, CFCC will reserve the right to make adjustments and will make every effort to communicate these to the applicants in a timely manner.

PROGRAM DESCRIPTION

The Cardiovascular Sonography (CVS) AAS program provides individuals with the knowledge and skills necessary to acquire, process, and evaluate the human heart and vascular structures. The program's goal is to prepare competent entry-level adult cardiac sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Coursework includes introduction to patient care, cardiac sonography, sonographic physics, and vascular sonography.

Graduates of this program are eligible to seek certification by the American Registry of Diagnostic Medical Sonography, or other recognized accrediting agencies. Employment opportunities include a variety of health care settings such as hospitals, imaging centers, medical clinics, physician's offices, mobile companies, education, and equipment applications or sales. According to the Society of Diagnostic Medical Sonography, the median hourly wage for sonographers (\$35.16/hour) equates to an approximate base salary of \$73,133 annually. Note: this is a national average and does not reflect the local annual base average of \$56,000.

GENERAL ADMISSION INFORMATION

It is the Cardiovascular Sonography applicants' responsibility to ensure that all requirements are met by the established deadlines. Cardiovascular Sonography deadlines, guidelines, and policies apply equally to all students; thus, there will be no exceptions.

The Cardiovascular Sonography faculty conduct detailed information sessions that are held during the fall of 2023 and spring of 2024 (see CVS website for specifics). Note: attendance is beneficial but does not provide points for the fall 2024 application period.

Admission to any and all educational programs offered by Cape Fear Community College is made without regard to race, color, sex, national origin, gender identity, sexual orientation, disability, veteran status or other irrelevant factors.

The Cardiovascular Sonography program at CFCC requires a separate, program specific application as it is selective admission. Students must meet minimum requirements and complete an "Intent to Apply" during the application period. This is done electronically and can be accessed at the program website: <https://cfcc.edu/cardiovascular-sonography/>.

Prior to completing the “Intent to Apply”, prospective students must first be accepted for general admission to Cape Fear Community College. Below are the steps for acceptance to CFCC.

Note: if you are interested in this program but are not sure about meeting all requirements, you are encouraged to contact the staff of the HSEC: healthsciences@cfcc.edu or complete the form on the [application website](#) for further support.

Students Must:

1. Complete CFCC General Admissions Application, which includes the Residency Determination Application. For students who have applied to or have taken classes at CFCC previously, the application has to be active. If the prospective student has not attended classes at CFCC for one year (12 months) or longer, they must reapply and be accepted prior to filing an “Intent”.
2. Request official transcripts from a regionally accredited High School/High School Equivalency Agency. High School/High School Equivalency transcripts must indicate the date graduated. Official transcripts are those received either electronically, by mail, or by hand delivery to CFCC in the original, sealed envelope from the awarding institution or agency. If a prospective student graduated from a North Carolina public high school within the past three years, they may request that an official high school transcript be sent electronically to the Admissions Office via the College Foundation of North Carolina (CFNC) website at www.cfnc.org. The official school administrator for homeschooled students must submit a copy of the homeschool’s approved registration from the state in which they are registered (if applicable), and a homeschool transcript with graduation date. All students selected to the program must have graduated from high school at the start of the program or have earned the equivalent credentials.
3. Request official transcripts from **all** colleges and/or universities attended (if applicable; must come from institution where classes were taken) to be mailed or electronically sent to the Admissions and/or Records Office. These will be reviewed for possible transfer credit. Note: transcripts from Masters or Ph.D. programs are not required. Transcripts from colleges that are not regionally accredited may be evaluated on a case-by-case basis.

Once accepted to CFCC, students must meet the minimum requirements listed below and then need to file an “Intent to Apply” electronically during the application period:

1. **Applicants must meet minimum English and Math requirements.** Any parts of the criteria below can be combined to meet the requirements. ***Official transcripts and/or test scores are required.***
 - An Associate’s Degree or higher **OR**
 - An Unweighted U.S. High School GPA of 2.8 or higher regardless of graduation year or NC Community College Adult High School (AHS) unweighted GPA of 2.8 or higher **OR**
 - High School Career and College Ready Graduate (CCRG) Enhanced English IV score of 80 or higher on Tiers I and II **AND**
 - High School CCRG Math score of 80 or higher on Tiers I and II **OR** Math 3 End of Course (EOC) score of 4 or higher **OR**

- Completion of English Composition I or higher (or its equivalent; i.e., ENG-111 in the North Carolina Community College common course library) and college level Statistics or higher (or its equivalent; i.e. MAT-152 or higher in the North Carolina Community College common course library) with a grade of “C” or better at a regionally accredited college. (Note: if both requirements are met via CFCC transfer credit, then skip to bullet no. 2). **OR**
 - Successful completion of developmental or transitional English and Math classes at a North Carolina Community College (only) that would allow direct placement into ENG-111 and MAT-152 without pre- or co-requisites (see specifics about math course requirement below; if taken at a four-year college/university or out of state, please contact the CFCC Health Science Enrollment Center at healthsciences@cfcc.edu if you have questions) **OR**
 - Completion of an NCDAP, Accuplacer (Classic, not Next Gen.), RISE, or COMPASS Placement Test with English and Math placement-into English 111-and Math 152 without pre- or co-requisites, regardless of completion date. Please contact the CFCC Health Science Enrollment Center at healthsciences@cfcc.edu if you have questions about the use of test scores to meet Math and English requirements.
2. **Students must have an overall GPA of 2.5 or higher in all post-secondary coursework completed at Cape Fear Community College** (if the applicant has never attended CFCC this requirement may be disregarded. After an “Intent to Apply” has been filed, the student must consistently maintain a minimum GPA of 2.5 for each semester enrolled at CFCC to enter the program in the fall). If the student’s CFCC cumulative GPA is below 2.5 at the time of filing an “Intent to Apply” and they have not been enrolled in CFCC for one year (12 months) or longer, they may be eligible for *Academic Forgiveness* (see 2023 – 2024 catalog for more information).
 3. **All students who wish to apply for the CVS Program must have completed a college level Anatomy and Physiology class (with lab) within five (5) years of the start date of the CVS program and achieved a grade of “C” or higher.** Note: Interested applicants who need to meet the Anatomy & Physiology requirement may take BIO 168 or 169; Basic A&P BIO-163 will not be accepted.

Special Note: The five-year age requirement for the Anatomy and Physiology class will be waived for Radiography/Imaging Professionals who have been employed full-time (32 hours per week or more) for a minimum of one year within the last two years (employment documentation must be submitted prior to the application deadline and will be reviewed on an individual basis by the program director).

4. **All students who wish to apply for the CVS Program must have completed a college level Statistics, Algebra, or higher-level math course and achieved a grade of “C” or higher.** Interested applicants who need to meet the course requirement may take MAT-152 or MAT-171.
5. **All students who wish to apply for the CVS Program must have completed a college level Physics course and achieved a grade of “C” or higher.** Interested applicants who need to meet the Physics requirement may take PHY-110 and 110A, Conceptual Physics and Lab, or equivalent.
6. **All students who wish to apply for the CVS Program must have completed a college level Medical Terminology course (3 semester hours) within five (5) years of the start date of the CVS Program and achieved a grade of “C” or higher.** Interested applicants who need to meet the course requirement may take MED-121.

Special Note: This requirement is waived for current health care professionals or graduates of an imaging program. Supportive documentation must be submitted prior to filing an “Intent to Apply” and will be reviewed on an individual basis by the program director.

7. **All students who wish to apply for the CVS Program must have completed a college level Communications course and achieved a grade of “C” or higher.** Interested applicants who need to meet the course requirement may take COM 110, COM 120, or COM 231.
8. **Completion of the TEAS Test (by ATI; versions 6 and 7 only) and meet the cut off score requirement (have scored minimum of 59 overall).**
9. **Patient care:** In order to file an "Intent to Apply", applicants will be required to have approved patient care experience. This requirement can be acquired by taking a CNA course or having approved patient care experience.

CNA credentials must be within the last five (5) years (if currently enrolled in a course the requirement is met; must have official transcript on file at HSEC) or patient care experience (see detailed requirements below) in order to file an “Intent to Apply”. For patient care experience, applicants must have a minimum of 480 hours of patient care experience within the last five (5) years. The following programs/credentials are acceptable examples of how a student might acquire health care experience: Emergency Medical Technician (EMT B or I), Paramedic, or applicants with degrees in nursing, radiography, medical sonography, nuclear medicine, respiratory therapy, physical therapy, occupational therapy, or surgical technology. Required documentation is to include job description/duties, length of employment, and hours worked. Applicants must submit proper documentation on official letterhead, dated, and signed by a management team member. All documentation must be on file with Health Science Enrollment Center office prior to the application deadline in order to meet the requirement to file an Intent to Apply (April 25, 2024). Any patient care experience that does not fall into the listed categories above may be submitted for evaluation by the Program Director (please allow ample time for review and decision). Please email a description of the care experience to the staff of the HSEC (healthsciences@cfcc.edu) who will consult with the Program Director and will inform the applicant of the decision.

10. **Filing an “Intent to Apply”**

An “Intent to Apply” for the Cardiovascular Sonography AAS Program may be completed **ONLINE** during the application period of January 11, 2024 through April 25, 2024. Students must visit the programs’ website (www.cfcc.edu/cardiovascular-sonography/), click on the “File My Intent” button, and study the instructions to proceed. Students must make sure to complete all required fields/areas all the way to the end and then submit the form. If the “Intent” is approved, i.e., all eligibility requirements are met, the student will receive information in their CFCC email account explaining the next steps. Students who file an “Intent to Apply” and do not meet the minimum requirements will receive an e-mail addressing the missing items. Once eligible, they may re-file their “Intent” as long as it is prior to the end of the application period. Note: If technical difficulties are encountered, students may contact the CFCC Helpdesk at 910-362-4357. All interested applicants must file the “Intent to Apply” prior to the end of the application period.

“Intent to Apply” Checklist for the Cardiovascular Sonography AAS Program:

- Admission to CFCC (via general college admission) or active application status

- Official high school transcript on file at CFCC
- Official college/university transcripts (if applicable) on file at CFCC
- Overall GPA at CFCC of 2.5 or higher (criteria waived if students do not have an established GPA at CFCC)
- Meet English and Math eligibility (see pages 2-3)
- Completion of BIO 168 or 169 with a grade of “C” or better within the last five (5) years
- Completion of MAT 152, 171, or higher with a grade of “C” or better
- Completion of a college level Physics class with a grade of “C” or better
- Completion of a college level Medical Terminology class (3 semester hours) within the last 5 years with a grade of “C” or better
- Completion of COM 110, 120, or 231 (or transfer equivalent) with a “C” or better
- Completion of the TEAS exam (versions 6 or 7) and have scored a minimum of 59 (Total Score) PRIOR to filing an “Intent to Apply”
- Documentation of acceptable patient care or CNA credentials must be on file in the HSEC (may require approval by the program director).

Note: Completion of general education courses prior to the start of the program does not decrease the number of semesters required to graduate. It takes five semesters to complete all CVS classes.

TESTING INFORMATION

Students who wish to be considered for admission to CFCC’s CVS program must first ensure they meet the minimum application requirements. They should schedule and complete the TEAS exam (by ATI, choose “*Nursing*”) prior to filing an “Intent to Apply”. This is done independently from the CFCC CVS application process. There is no set limit to the number of times an applicant may take the TEAS test, however, if using CFCC as a testing site, a student may test only two times per academic year; additional tests may be taken offsite. Those who have taken the TEAS test in previous years should be aware that tests are only valid for five years from the time they file an “Intent to Apply”. Once the TEAS test is taken and **only if the cut off score requirements are met (see below)**, the applicant should request that an official score report be made available to CFCC. If the TEAS test was taken at CFCC, the staff of the HSEC will have access to the results. Applicants who tested should include the date the test was taken, as well as the TEAS student number (located on the top left of the official score report) on the “Intent to Apply” form.

Note: **Applicants who test more than once are responsible for selecting the TEAS test with the highest overall score.** In addition, we will not create a new score using the highest points in each test category among several tests (i.e., we do not “superscore”).

THE “INTENT TO APPLY”, AS WELL AS ALL TESTING, MUST BE COMPLETED ON OR BEFORE April 25, 2024 and must be on file in the Health Science Enrollment Center at CFCC in order to be considered for the CVS program. “Intents to Apply” and results from tests completed after April 25, 2024 will not be accepted.

Flexible Testing Options: Applicants may take the TEAS exam at any available PSI Test Center (see ATI website for a list of locations: <https://www.atitesting.com/TEAS>), remotely with ATI, or on

campus with limited availability at the CFCC Union Station Testing Center (**maximum of two times at CFCC; no limits set if testing off campus**).

Testing Locations: All available on campus test sessions for the CVS application period will be scheduled using the ATI Testing company. More information is available at <https://cfcc.edu/testingservices>. An option to test at any available PSI Test Center will also be made available as a choice. It may provide a greater number of testing dates, times, and locations. Applicants who meet minimum requirements to apply to the CVS program may use this option but must be aware of the testing/“Intent” deadline of **April 25, 2024**.

Testing with Accommodations: Students who need accommodations for the TEAS test should contact Student Accessibility Services (SAS) at sas@cfcc.edu. The scheduling of the accommodated test must be coordinated by the staff of SAS and CFCC Testing Services who will guide the student through the process. Note: Testing at a PSI Test Center may not guarantee appropriate accommodations.

Cost: The cost of the TEAS test may vary by each provider. If testing at CFCC the cost will approximately be \$90.00 per test. For cost information on remote testing via ATI, as well as testing as a PSI Testing Center, please refer to the ATI website. Also, if applicants do not select CFCC as the receiving college upon testing, an additional fee will be charged to make the test accessible to CFCC (please refer to ATI website for details).

Test Preparation: It is recommended that students utilize TEAS study guides which are available for purchase online and in some book stores. In addition, the staff in the CFCC Learning Lab (910-362-7496) may be able to provide resource materials to help prepare for the TEAS exam, including the following: <https://libguides.cfcc.edu/TEAS>.

After the Test: Students will have access to test results immediately after they complete the TEAS exam. **In order to be considered for the CVS program, a student must meet the minimum score requirements on the TEAS of 59 for the Total Score (see Individual Performance Profile).** Students may file an “Intent to Apply” during the application period once test scores meet the minimum score requirement and are on file at the HSEC by the testing deadline. No additional application forms are required.

For further details regarding the TEAS test, students are encouraged to visit the Health Science Admissions page and refer to the FAQ link to TEAS related information:

<https://cfcc.edu/admissions/health-sciences-enrollment/>

Note: Students cannot apply to both the Cardiovascular AAS program and the Cardiovascular Sonography diploma program.

Note: Depending on the Health Science program neither federal law nor North Carolina law permits undocumented individuals or those with DACA (Deferred Action for Childhood Arrivals) classification to receive professional licenses. See 8 U.S.C. § 1621(a) and (c)(1)(A). This does not prevent a DACA student from enrolling in a Health Science program, but may prohibit the student from receiving a professional license. If students have any questions about eligibility for professional licensure please contact the professional organization’s website.

CARDIOVASCULAR SONOGRAPHY SELECTION PROCESS

The point system was implemented as an objective means for evaluating Cardiovascular Sonography applicants. ALL course work eligible for points MUST be on completed and on file at the HSEC prior to the application deadline of the program (April 25, 2024). If students are currently, or were previously enrolled in another college, it is their responsibility to ensure that the official, final transcript is received by CFCC prior to the application deadline.

Six (6) students with the highest point count totals will be required to enroll in a Cardiovascular Sonography Skills Assessment in the early summer of 2024 (see page 8). If two or more students have the identical point count total, the date and time that the “Intent to Apply” form was successfully submitted (i.e., eligibility criteria were met) will be the determining factor. After completion of the skills assessment, **the four (4) students with the highest grades will be selected to enroll in the Cardiovascular Sonography program in the fall of 2024.**

College Level Coursework (Note: not a minimum requirement- used for point count and to satisfy program General Education coursework)

College courses completed prior to the application deadline with a grade of “C” or better will earn the applicant points. Points will also be awarded for credit earned based on AP (Advanced Placement) and/or CLEP examinations. (For point distribution, refer to the attached point count worksheet).

Note: Courses completed in the spring semester (after application deadline) will not earn points.

In order for the Anatomy and Physiology (A&P) credits to apply to the Cardiovascular Sonography curriculum requirement, either course must have been completed within five (5) years of the start date of the CVS Program. Acceptable A&P courses are BIO-168 and BIO-169 (A&P I and II with labs). Only the first attempt with a grade of “C” or better will be considered in the point count (within the last five (5) years of the program start date; for 2024 applicants: only valid for points and towards graduation if taken fall 2019 or after).

Other required courses for points: ENG-111, COM-120 (or COM-110 or COM-231), PSY-150 or SOC-210, and MAT-152, MAT-171 or higher with a grade of “C” or higher.

Humanities/Fine Arts Elective: This requirement may be met by taking an approved Humanities or Fine Arts course. For approved courses, please refer to the student’s program evaluation (course substitutions may be an option).

Note: Students who have questions or concerns regarding the transfer credits they received for courses taken at other colleges and/or universities must address and resolve these prior to the end of the application period (please contact a staff member at the CFCC Health Science Enrollment Center).

TEAS Scores (to be taken prior to filing an “Intent to Apply”; cut off score requirements must be met)

Points are awarded for scores on the TEAS exam in the following four areas: Math, Science, Reading, and English and Language Usage for a maximum of 100 points (see the *TEAS Individual Performance Profile*: “Total Score %”). TEAS tests are valid for five years from the date the “Intent to Apply” is filed. Applicants may test more than one time as there are no set limits. **Note: Applicants are only permitted to take the test twice on campus at the CFCC Testing Center. Attempting to take the test more than twice at the CFCC Testing Center is not permitted.** If an applicant wants to take the test additional times, then that can be done using the ATI remote option, the PSI Testing Center option, or by testing at another college testing center other than CFCC. If the applicant indicates that they are testing for Cape Fear Community College as their primary school when scheduling the test, then the test results will be automatically available for CFCC staff to download. **Applicants should select the test with the highest score when filing their “Intent to Apply” during the application period.** Applicants should file an “Intent to Apply” when they have completed the TEAS test and meet the cut off score requirements during the application period. If they choose to retest, they need to make sure that official score reports of all tests are on file at CFCC (please contact the staff of the HSEC at healthsciences@cfcc.edu if you have any questions).

Calculation of Total Points

The applicant’s total points are calculated using academics (completed course work) and the scores of the TEAS test. Qualified applicants will be invited to review their point count electronically **after the application deadline and after all point counts are completed.** A copy of their point count will be emailed in April 2024 including instructions on how to agree or recheck the total point count. **APPLICANTS WHO FAIL TO RESPOND TO THE REQUEST TO REVIEW THEIR POINT COUNT WILL WAIVE THEIR RIGHT TO CONTEST THEIR POINT TOTAL.** *Applicant’s point counts are confidential; to protect the student’s privacy, point count totals can only be discussed with the applicant.*

Cardiovascular Sonography Skills Assessment Requirement for 6 Semi Finalists

After the point count review, the **top six (6) students** with the highest score totals will become semi-finalists. They will be notified by email and are required to participate in the *Sonography Skills Assessment*. It will be held during the summer semester (May 21st-May 24th, times TBA). **The attendance requirement is 100 percent and missing one or more meeting times will result in failing the assessment.** The assessment is designed to give an overview of the profession and include basic sonographic concepts. Students’ understanding of the material will be assessed through interactive lab tasks. The **top four (4) students** with the highest total grade will be admitted into the Cardiovascular Sonography AAS Program to begin in the fall semester 2024.

Note: Students may participate in the skills assessment a maximum of **two (2) times**. If a student completes the summer skills assessment a second time with a passing score and is not selected for enrollment in the fall semester, the student will not be eligible to apply to the program again. In addition, if a student receives a failing grade after the first attempt of the skills assessment, a second “Intent to Apply” to the program(s) will not be accepted.

Acceptance into the program is for the current application year only (fall 2024 enrollment). Students who decide to decline their seat will need to reapply for future admission.

Cardiovascular Sonography applicants who are selected from the skills assessment are conditionally accepted into the program pending the submission and review of a medical history form provided by

Cape Fear Community College. Acceptance is also conditional on the results of a required urine drug screen and criminal background check (see below).

Applying to Multiple Programs: If accepted into multiple health sciences programs at CFCC, students are required to commit to the program of choice by the deadline stated in the program decision email sent by the Health Science Enrollment Center. Failure to do so in writing (i.e., via response form) will result in the loss of the seat. Once a student accepts their seat and attends the orientation, they finalize their commitment to the Cardiovascular Sonography program and will no longer be considered for seats in other programs, unless granted prior approval by the staff of the HSEC. For any questions or concerns they may reach out to the staff members of the HSEC: healthsciences@cfcc.edu.

NOTIFICATION PROCEDURE

All CVS applicants will receive notification via CFCC email of their status for the upcoming program year. **The top four (4) students who are selected will be notified when to complete the following:**

1. Medical Reports

All completed health/medical reports must be received by the specified date noted in the materials provided at the program orientation.

2. Policy Manual

Students are required to read the Cardiovascular Sonography Program Student Policy Manual online prior to attending the new student orientation. Policies will be discussed during the orientation and students will have an opportunity to ask questions. Students will sign a statement to verify that they have read the policy manual.

3. Cardiopulmonary Resuscitation (CPR) – BLS for Healthcare Providers (HCP) – 2 Year

Students must also submit documentation of current two-year CPR certification in American Heart Association Basic Life Support for Healthcare Providers (infant, child and adult). No online courses accepted. Details will be provided at the orientation.

4. Drug Screening/Criminal Background Check/ Immunization Tracker

A twelve (12)-panel urine drug screen and criminal background check is mandatory. **Drug screens cannot be completed prior to the CVS Orientation.** Information will be given to students by the program director at the orientation. Any drug screens completed prior to the orientation will not be accepted. In addition to the initial drug screening, at their discretion, clinical sites may require an additional drug screening and/or a criminal background check prior to allowing students into the clinical setting (if required, any associated fees will be the responsibility of the student). Testing positive on the drug screening, or evidence of tampering with a specimen, will disqualify a student from participation in the clinical assignment. In addition, certain criminal activity, as evident by a criminal background check, may also disqualify a student from clinical participation. Please be aware that failure to participate in a clinical assignment based on either the drug screening or criminal background check will result in dismissal from the CVS Program. For further information, students should see the “Drug and Alcohol Policy” in the CFCC Student Handbook. **Information will be disseminated during orientation by the director of the program.**

Students are required to have all immunization records current prior to beginning clinical education. After acceptance into the program, students will be instructed on how to set up their background check and immunization tracker. A drug screen and criminal background check will be completed annually.

Note: Students with a criminal record may be ineligible for clinical education and may not be approved to take the American Registry for Diagnostic Medical Sonography (ARDMS) registry exams. It is recommended that students with a misdemeanor or felony conviction complete the ARDMS eligibility review application to have their case reviewed prior to applying to the CVS Program. This process could take up to 3 months. The application can be found on the ARDMS website: (www.ardms.org).

PROGRESSION POLICY

Students admitted to the Cardiovascular Sonography Program must achieve or have achieved a “C” in each course in the curriculum in order to progress semester by semester.

Grading Policy

A	Excellent	92-100
B	Good	84-91
C	Average	76-83
D	Poor	68-75

PHYSICAL AND COGNITIVE EXPECTATIONS OF A CVS STUDENT SONOGRAPHER

Cardiovascular Sonography is a practice discipline with cognitive, sensory, affective, and psychomotor performance requirements. For purposes of sonography program compliance with the 1990 Americans with Disability Act, a qualified individual with a disability is one who, with or without reasonable accommodation or modification, meets the essential eligibility requirements for participation in the sonography program.

If a student believes that they cannot meet sonography program requirements without accommodations, the Student Accessibility Services office will determine on an individual basis, whether or not the necessary accommodations or modifications can be reasonably made. Further information regarding the physical and cognitive expectations of a student sonographer and the Technical Standards may be found in the student policy manual for cardiovascular sonography.

CFCC provides reasonable accommodations to otherwise qualified students with disabilities, as long as such disabilities, as determined on a case-by-case basis, do not preclude the student from meeting the qualifications considered essential to the program. The essential functions (Technical Standards) are listed on the next page.

REQUIRED TECHNICAL STANDARDS

CRITERION	STANDARD	EXAMPLES OF NECESSARY ACTIVITIES (Not all Inclusive)
Critical Thinking	Critical Thinking ability sufficient for clinical judgment	Correlate clinical information with patient findings. Being familiar with each patient's limitations.
Interpersonal	Interpersonal abilities to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds	Ability to make eye contact while: 1) Introducing yourself to patients and family members 2) Explaining each exam to your patient 3) Explaining your findings to physicians and other nursing staff Ability to accept and apply Constructive Criticism from clinical instructors, physicians, and other staff members.
Communication	Communication abilities sufficient for interaction with others in verbal and written form	Fluently explain exams to the patients and or family members in the English language. Write reports and verbally explain all findings to a physician in the English language.
Mobility	Physical abilities sufficient to move from room to room and maneuver in small places	Push stretchers with patients on them up and down hallways and into rooms. Maneuver patients in wheelchairs. Bend, stoop, reach, and lean often. Move ultrasound equipment throughout hospitals and into patient rooms. Ability to transfer large patients from stretchers and wheelchairs to exam tables. Put on sterile gloves used for guided biopsy procedures.
Motor Skills	Gross and fine motor abilities sufficient to provide safe and effective patient care	Range of motion to sufficiently reach across a stretcher or exam table. Transducer manipulation using fingers of one hand while the other hand uses keyboard to type and adjust machine knobs. Safely move patients and equipment. Caring for patients with bedpans, IV's and other devices.
Hearing	Auditory ability sufficient to monitor and assess health needs	Detect patient monitor alarms. Respond to patients in need while they are turned in the opposite direction. Respond to emergency codes throughout the hospital. Gather information about patient's health history.
Visual	Visual ability sufficient for observation and assessment necessary in patient care	Ability to distinguish colors and shades of gray correctly. Operate ultrasound equipment in a dimly lit room while watching images on a monitor. Distinguish normal from abnormal anatomy.
Tactile	Tactile ability sufficient for physical assessment	Perform palpation, functions of physical examination, and/or those related to therapeutic intervention. Manipulate patient properly to complete each sonographic exam (e.g., ability to palpate a breast lump, feel for a pulse, properly mark areas on the body for drainage).

Students who feel they need accommodations should contact the staff of the Student Accessibility Services office in the Union Station Building (Room U-218) on the Downtown Campus or call 910-

362-7800.

Note: Students selected for the Cardiovascular Sonography Program must be aware that traveling outside of New Hanover County is necessary for clinical education. Some clinical sites are over 50 miles outside of Wilmington. Travel is required during all five semesters of the program. Students must provide their own reliable transportation to clinical sites.

RESOURCES/ASSISTANCE

For questions or concerns regarding the selective admissions process and other available resources, please contact a staff member of the Health Science Enrollment Center at the Wilmington Campus in the Union Station Building (Room U-297); healthsciences@cfcc.edu; 910-362-7139.

FINANCIAL AID

The Financial Aid office monitors a policy that is based on federal regulations that establishes a maximum time frame for completion of a program of 150 percent of the published length of an educational program. This means that as a student majoring in Pre-Sonography or another Health Science program, the student will need to pay careful attention to the number of hours attempted prior to actual admission into the program of choice. Depending on the number of hours attempted prior to admission into a Health Science program, a student may not be eligible for enough financial aid to complete the program after they have been admitted.

To make sure students understand this policy and plan ahead in order to use their financial benefits in a wise and timely manner, students are encouraged to consult with the staff of the CFCC Financial Aid Office located in the Union Station Building (Room U-138) on the Wilmington Campus or in the McKeithan Center (Room NA-100) on the North Campus.

The Cape Fear Community College Foundation supports student education opportunities through program support and scholarships. All students are encouraged to apply to scholarships if eligible. Please be aware that there is a firm scholarship application deadline in place and students may not know their program acceptance status until after the deadline. For more information, please visit the Foundation website: <https://cfcc.edu/foundation/>.

CAPE FEAR COMMUNITY COLLEGE TUITION & FEES

Payment can be made by cash, check, VISA, MasterCard, American Express, Discover, financial aid, payment plan or a third-party sponsorship. All forms of payment must be received by the Business Office to be officially registered.

Tuition is established by the North Carolina State Legislature and is subject to change without prior notification.

Credit Hours	In-State Tuition	Out-of-State Tuition	Student Activity Fees	Parking & Security Fee	Technology Fees
1	76.00	268.00	35.00	40.00	3.00
2	152.00	536.00	35.00	40.00	6.00
3	228.00	804.00	35.00	40.00	9.00
4	304.00	1072.00	35.00	40.00	12.00
5	380.00	1340.00	35.00	40.00	15.00
6	456.00	1608.00	35.00	40.00	18.00
7	532.00	1876.00	35.00	75.00	21.00
8	608.00	2144.00	35.00	75.00	24.00
9	684.00	2412.00	35.00	75.00	27.00
10	760.00	2680.00	35.00	75.00	30.00
11	836.00	2948.00	35.00	75.00	33.00
12	912.00	3216.00	35.00	75.00	36.00
13	988.00	3484.00	35.00	75.00	39.00
14	1064.00	3752.00	35.00	75.00	42.00
15	1140.00	4020.00	35.00	75.00	45.00
16 or more	1216.00	4288.00	35.00	75.00	48.00

Liability Insurance: \$15.00 Per School Year (Nursing and Health Science Students)

Full Time: 12 Credit Hours
 ¾ Time 9 Credit Hours
 ½ Time 6 Credit Hours

Revised 7/2022

Estimated Expenses for the Cardiovascular Sonography AAS Degree
CAPE FEAR COMMUNITY COLLEGE

Before Fall Registration	Cost	Summer Semester	Cost
Uniforms (3 sets plus lab coat)	\$200.00	Tuition <i>In State</i>	\$1137.00
Embroidery for scrub tops and lab coat	Included	Tuition <i>Out of State</i>	3633.00
Shoes (clinical)	50.00	Mileage to school and clinical sites	Varies
Medical Examination, 2-step TB test, HEP-B Vac, varicella proof, seasonal flu shot, etc.	Varies	Criminal background and drug screen (for second year)	59.00
CPR certification (2 year)	Varies		
Electronic Records Fee	150.00		
Criminal Background Check/Drug Screening/	105.00		
My Clinical Exchange Tracker	79.00		
Fall Semester One	Cost	Fall Semester Two	Cost
Tuition <i>In State</i> (including student fees)	1,374.00	Tuition <i>In State</i> (includes student fees)	1,216.00
Tuition <i>Out of State</i> (including student fees)	4,446.00	Tuition <i>Out the State</i> (includes student fees)	3,094.00
Textbooks	550.00		
Liability Insurance	15.00	Liability Insurance	15.00
Mileage to school and clinical sites	Varies	Mileage to school and clinical sites	Varies
Spring Semester One	Cost	Spring Semester Two	Cost
Tuition <i>In State</i> (including student fees)	1,374.00	Tuition <i>In State</i> (includes student fees)	979.00
Tuition <i>Out of State</i> (including student fees)	4,446.00	Tuition <i>Out of State</i> (includes student fees)	3,091.00
ARDMS SPI Registry exam	225.00	NCUS Annual renewal fee	25.00
Mileage to school and clinical sites	Varies	Mileage to school and clinical sites	Varies
NCUS Student Membership	15.00	NCUS Meeting (approximate)	380.00
NCUS Meeting (registration, travel, hotel, Meals, etc.)	380.00	ARDMS cardiac specialty exam	250.00

Tuition costs may vary.

Revised 7/2023

Cardiovascular Sonography AAS Curriculum
CAPE FEAR COMMUNITY COLLEGE

Fall Semester I

Course	CVS Curriculum Course Title	Class	Lab	Clinical	Credit
SON 111	Sonographic Physics	3	3	0	4
BIO 169*	Anatomy & Physiology II	3	3	0	4
CVS 160	CVS Clinical Education	0	4	9	5
CVS 163	Echo I	3	2	0	4
			Totals		17

Spring Semester I

Course	CVS Curriculum Course Title	Class	Lab	Contact	Credit
CVS 161	CVS Clinical Education II	0	0	24	8
CVS 164	Echo II	3	2	0	4
SON 250	Vascular Sonography	1	3	0	2
			Totals		14

Summer Semester I

Course	CVS Curriculum Course Title	Class	Lab	Contact	Credit
CVS 162	Clinical education III	0	0	15	5
CVS 277	Cardiovascular Topics	2	0	0	2
PSY 150 or SOC 210*	General Psychology or Intro to Sociology	3	0	0	3
ENG 111	Writing & Inquiry	3	0	0	3
			Totals		13

Fall Semester II

Course	CVS Curriculum Course Title	Class	Lab	Contact	Credit
CVS 260	Clinical Education IV	0	0	24	8
			Totals		8

Spring Semester II

Course	CVS Curriculum Course Title	Class	Lab	Contact	Credit
CVS 261	Clinical Education V	0	0	24	8
HFA*	Humanities/ Fine Arts Elective	3	0	0	3
					11
Other Gen Eds required prior to the program (BIO-168, COM; MAT)					11
Total Core Credits					50
Total Major Credits					70

*May be taken prior to the acceptance to the program; BIO 169 expires after five years (for 2024: only valid for points and towards graduation if taken fall 2019 or after). The other General Education classes listed above in the curriculum do not expire. If general education courses are completed prior to acceptance in the program, this will not reduce the length of the 5-semester program.

Note: PHY110/110A and Medical Terminology MED-121 are minimum requirements to apply; they are not part of the CVS AAS degree.

CARDIOVASCULAR SONOGRAPHY AAS | FALL 2024

MINIMUM REQUIREMENTS (must be completed in order to apply to the program)

- Admission to CFCC (by Admissions) or active application status
- Official high school transcript on file at CFCC
- Official college/university transcripts (if applicable) on file at CFCC
- English and Math eligibility
- Overall GPA at CFCC of 2.5+ (criteria waived if students do not have an established GPA at CFCC)
- Completion of BIO 168 with a grade of "C" or better within the last five years
- Completion of TEAS exam (minimum of 59 as total score). Should submit highest scoring test with intent if testing multiple times
- Completion of MAT 152 OR 171 OR higher with a grade of "C" or better
- Completion of a college level Physics class with a grade of "C" or better (no points)
- Completion of a college level Medical Terminology class (three semester hours) within the last five years with a grade of "C" or better
- Completion of COM 110, 120, OR 231 (or transfer equivalent) with a grade of "C" or better
- Nurse Aide I course OR preapproved patient care

POINT COUNT WORKSHEET

SECTION A: COLLEGE COURSEWORK

Courses required prior to or during the program as outlined in the college catalog. Points apply if taken prior to the application deadline.

*BIO 168 Anatomy and Physiology I (4 sem hrs) A (30pts) _____
B (20pts) _____
C (10pts) _____

*BIO 169 Anatomy and Physiology II (4 sem hrs) A (30pts) _____
B (20pts) _____
C (10pts) _____

*Only the first attempt with a letter grade of "C" or better will be considered for the point count; courses expire if older than five years prior to the start of the program (i.e. must have been taken after August 2018); therefore, points will not be awarded AND cannot use courses towards graduation.

ENG 111 Writing & Inquiry (Expository Writing) A (15pts) _____
(3 sem hrs) B (10pts) _____
C (5pts) _____

COM 120 Interpersonal Communications A (15pts) _____
(3 sem hrs, COM 110 OR COM 231 also accepted) B (10pts) _____
C (5pts) _____

PSY 150 General Psychology (3 sem hrs) A (15pts) _____
OR B (10pts) _____
SOC 210 Intro to Sociology (3 sem hrs) C (5pts) _____

Humanities/Fine Arts Elective (3 sem hrs) A (15pts) _____
B (10pts) _____
C (5pts) _____

MAT 152 Statistical Methods I (4 sem hrs) A (15pts) _____
OR B (10pts) _____
MAT 171 Precalculus Algebra OR higher (4 sem hrs) C (5pts) _____

Total Points _____

(Maximum total for sections A is 135)

SECTION B: TEAS (VERSIONS 6 AND 7)

	Score
Reading	_____
Math	_____
Science	_____
English and Language Usage	_____

Score Total

(Maximum total for section B is 100)

Please refer to the cut-off scores as outlined above and in the information packet.

SUMMATION OF POINT TOTALS

Section A	_____
Section B	_____
Grand Total	_____

NOTE 1: If students have the same point count total, the date and time that the Intent to Apply was submitted will be the deciding factor.

NOTE 2: In order to receive points in any of the areas above, all documentation must be on file at CFCC as outlined in the information packet (by the deadline and in the required format).

