



FALL 2023

CARDIOVASCULAR SONOGRAPHY AAS

Application Period

Jan 12, 2023 - Mar 31, 2023



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 12, 2023 through March 31, 2023

MINIMUM REQUIRMENTS ARE SUBJECT TO CHANGE EACH ACADEMIC YEAR

Special Note from the Dean of Health and Human Services office:

Due to the potential effects of the COVID-19 crisis, the below described Fall 2023 selection processes to CFCC's health sciences are subject to change. 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; 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 2023 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.

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) 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 complete/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**
 - New: 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 on page 3). **OR**
 - Successful completion of Developmental (Transitional) English and Math classes that would allow placement into ENG-111 and MAT-143 without co-requisites (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 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. However, after an “Intent to Apply” has been filed, the student must consistently maintain a minimum GPA of 2.0 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 2022 – 2023 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 (BIO-168).**

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. **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 12, 2022 through March 31, 2023. 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 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 (acceptable versions: 6 and 7) and have scored a minimum of 59 (Total Score) PRIOR to filing an “Intent to Apply”

Note I: Having an active registry of CNA I or preapproved patient care experience is not part of meeting minimum requirements to apply; it does count for points (see pages 7 - 8 for details). Beginning Fall of 2024, patient care experience will be a minimum requirement.

Note II: 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 (acceptable versions: 6 and 7) 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. 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 9-digit 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 score potential in all four areas.** 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 MARCH 31, 2023 and must be on file in the Health Science Enrollment Center at CFCC in order to be considered for the CVS program. “Intent to Apply” and results from tests completed after March 31, 2023 will not be accepted.

Flexible Testing Options: Applicants may take the TEAS exam (acceptable versions: 6 and 7) 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.

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 **March 31, 2023**.

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 \$85.00 per test. Remote testing via ATI, as well as testing at a PSI Testing Center will cost approximately \$115.00 per test. An additional fee of \$27.00 may be charged when applicants have to order an official score report if they do not select CFCC as the receiving college upon testing.

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(acceptable versions: 6 and 7), including the following:
<https://libguides.cfcc.edu/TEAS>.

After the Test: Students will have access to test results shortly after they complete the TEAS exam. **In order to be considered for the Medical Sonography 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/>

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 2023 including instructions on how to agree or recheck the total point count. Program semi-finalist decision notifications will be emailed by early May.

Applying to Multiple Programs: If selected into multiple health science majors at CFCC, students are required to commit to the program of choice by the deadline stated in the correspondence sent by the Health Science Enrollment Center. Failure to do so in writing will result in the loss of the seat.

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 work experience, documentation, and course work needed for points **MUST** be on file and completed at the HSEC prior to the application deadline of the program (March 31, 2023). **Eligible courses need to be completed prior to the application deadline to receive points. No points will be awarded for documentation received after the application deadline.** 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 Sonography Skills Assessment in the early summer of 2023 (see page 9). 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 2023.**

Section A: Non-Coursework (Note: not a minimum requirement for Fall 2023- only used for point count):

Nurse Aide I Completion and/or Direct Patient Care Experience

Sixty (60) points will be awarded for applicants with health care experience such as CNA I or II with active registry. Points may also be awarded to applicants who **have a minimum of 480 hours of patient care experience within the last five (5) years.** The following certifications/degrees are examples of acceptable 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 receive points (March 31, 2023).**

Note: Effective for the program start of Fall 2024, patient care experience will be part of the minimum requirements to file an "Intent to Apply".

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

College Level Classes

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, the 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 2023 applicants: only valid for points and towards graduation if taken Fall 2018 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).

Section C: 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 an option.** If an applicant wants to take the test additional times, then that can be done using the ATI At-Home 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 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 (the “Intent to Apply” should NOT be submitted until the applicant has completed all testing).** Once the applicant indicates the test they wish to use on the “Intent”, these test scores will be used on the point count.

Calculation of Total Points

The applicant’s total points are calculated using approved work experience, 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 2023 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 students' privacy, point count totals can only be discussed with the applicant.*

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 (TBA). **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 2023.

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 2023 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).

NOTIFICATION PROCEDURE

All CVS applicants will receive notification by 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 below.

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 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 and 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.

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

$\frac{3}{4}$ Time 9 Credit Hours

$\frac{1}{2}$ 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)	\$160.00	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)	60.00
CPR certification (2 year)	Varies		
Electronic Records Fee	150.00	Fall Semester Two	Cost
Criminal Background Check/Drug	97.00	Tuition <i>In State</i> (includes student fees)	1216.00
		Tuition <i>Out the State</i> (includes student fees)	3904.00
Fall Semester One	Cost	Textbooks	150.00
Tuition <i>In State</i> (including student fees)	1,374.00	Liability Insurance	15.00
Tuition <i>Out of State</i> (including student fees)	4,446.00	Mileage to school and clinical sites	Varies
Textbooks	550.00		
Liability Insurance	15.00		
Calculator	10.00	Spring Semester Two	Cost
Mileage to school and clinical sites	Varies	Tuition <i>In State</i> (includes student fees)	979.00
NCUS Student Membership	15.00	Tuition <i>Out of State</i> (includes student fees)	3,091.00
		Textbooks	100.00
		NCUS Annual renewal fee (January)	15.00
Spring Semester One	Cost	Mileage to school and clinical sites	Varies
Tuition <i>In State</i> (including student fees)	1,374.00	NCUS Meeting (approximate)	380.00
Tuition <i>Out of State</i> (including student fees)	4,446.00	ARDMS specialty exam	250.00
Textbooks	150.00		
ARDMS SPI Registry exam	225.00		
Mileage to school and clinical sites	Varies		
NCUS student fee; optional	15.00		
NCUS Meeting (registration, travel, hotel, meals, etc.) optional	380.00		

Tuition costs may vary.

Revised 7/2021

**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 2023: only valid for points and towards graduation if taken Fall 2018 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.