



FALL 2024

# RADIOGRAPHY AAS

## Application Period

Jan 17, 2024 - Apr 17, 2024



Minimum requirements are subject to change each academic year.

## **RADIOGRAPHY**

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

**Application Dates: January 17, 2024 through April 17, 2024**

***MINIMUM REQUIREMENTS 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.*

Radiographers use radiation to produce images of tissues, organs, bones, and vessels that comprise the human body. The curriculum includes instruction in patient care and management, radiation protection, imaging procedures, quality assurance, recording media processing, equipment maintenance, interpersonal communication, and professional responsibility through an integration of classroom, laboratory, and clinical education. The radiographer is a skilled healthcare professional qualified to provide patient services using imaging modalities as directed by qualified physicians. Program graduates are eligible to apply to take the national examination administered by the American Registry of Radiologic Technologists for certification and registration as medical radiographers. **Please visit the Radiography Program website for more information on the program and the profession: <http://cfcc.edu/radiography/>**

The Radiography program is a five semester, full-time program beginning in the fall semester of each year. Classes are held at the downtown campus and the clinical education component of the program is conducted in various hospitals and other medical facilities affiliated with Cape Fear Community College by contract. Collectively the clinical affiliates provide a sufficient number and variety of radiographic procedures to offer students a well-balanced, supervised clinical experience. Hours for clinical rotations are generally from 7:00 am to 4:30 pm. During the second year of the program students will rotate three to four weeks through weekend and weeknight shifts (2:00 pm to 10:30 pm). The entire semester clinical schedule will be posted prior to the beginning of each semester. Sites are located up to 60 miles from the downtown campus. Transportation to and from the sites are the students' responsibility. *Note: A criminal background check and drug screen is required for all clinical sites.*

### **Employment**

Program graduates work in radiology departments in hospitals, clinics, physicians' offices, research and medical laboratories, federal and state agencies and industry. The hospital offers a wide variety of sub-specialties including orthopedics, mammography, operating room, and trauma areas. Average starting hourly wage will range from \$18.00 - \$24.00 per hour.

### **Program Mission, Goals and Student Learning Outcomes**

Mission Statement: the program's mission is to prepare graduates to be competent radiographers.

Goals and outcomes in support of the program's mission:

Program Goal #1: The graduates of the program will demonstrate competence in skills basic to the Radiography Profession.

- The student will competently perform routine radiographic procedures.
- The student will provide proper patient care and management.
- The student will demonstrate proper radiation safety practices to patients, self and others.
- The student will be clinically competent by rotating through excellent clinical sites provided by the program.

Program Goal #2: The graduates of the program will be able to effectively utilize problem solving and critical thinking skills.

- The student will demonstrate competence in non-routine examinations.
- The student will apply critical thinking skills in the practice of diagnostic radiography.

Program Goal #3: The graduates of the program will communicate effectively with patients and healthcare teams.

- The student will demonstrate effective oral communication skills.
- The student will demonstrate effective written communication skills.

Program Goal #4: The program meets the needs of the community by providing qualified radiographers.

- Students will complete the program.
- Graduates of the program will indicate satisfaction with preparation for employment.
- Employers will indicate satisfaction with graduates' quality of work.
- Graduates will pass the ARRT exam on the first attempt.
- Graduates will gain employment in radiography or enter advanced education programs.

## APPLICATION PROCESS

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

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

Admissions 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 Radiography 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/radiography>.**

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](mailto:healthsciences@cfcc.edu) or complete the form on the [application website](#) for further support.

**Students must:**

1. Complete the CFCC General Admissions Application, which includes the Residency Determination Application. For students that 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 the 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](http://www.cfnc.org). The official school administrator for homeschooled students must submit a copy of the home school’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/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 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, II, and III **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 Quantitative Literacy or higher** (or its equivalent; i.e. MAT-143 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-143 **without concurrent pre- OR 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](mailto: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-143 **without pre-or co-requisites**, regardless of completion date. Please contact the CFCC Health Science Enrollment Center at [healthsciences@cfcc.edu](mailto: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 2023 – 2024 catalog for more information).
  3. **High School or College Biology course with a grade of “C” or better.** All students who wish to apply for the Radiography program must have completed a Biology course in high school or college and achieved a grade of “C” or higher within five (5) years of the start date of the Radiography Program. Applicants who have taken a High School Equivalency exam may also meet this requirement if they achieved a standard score on the Science Exam of any of the following High School Equivalency tests, a 145 on the 2014-present GED, or an 8 on the 2014-present HiSet. If a student doesn’t meet this requirement, BIO 163 or BIO 168 is the recommended course (if BIO 168 is selected, BIO 169 must also be completed to meet graduation requirements).
  4. **Filing an “Intent to Apply”**  
An “Intent to Apply” for the Radiography program is completed **ONLINE** during the application period of January 17, 2024 through April 17, 2024. Students must visit the programs’ website ([www.cfcc.edu/radiography](http://www.cfcc.edu/radiography)), 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 e-mail account explaining the next steps. Students who file an “Intent to Apply” and do not meet the minimum requirements will receive an email 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.

Note: Students requesting to transfer from another radiography program may contact the Health Science Enrollment Center (HSEC) at 910-362-7139 or [healthsciences@cfcc.edu](mailto:healthsciences@cfcc.edu) for details.

**5. 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).**

**“Intent to Apply” Checklist for the Radiography 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 (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)
- English and Math eligibility (see page 3)
- Completion of a high school or college level Biology class with a grade of “C” or better (#3 above) within the last five (5) years
- Completion of the TEAS exam and have scored a minimum score of 59 overall PRIOR to filing an “Intent to Apply”

Note I: Completion of all general education courses that are part of the Radiography program is not required in order to complete the selective admissions application to the program.

Note II: Completion of general education courses prior to the start of the program does not decrease the number of semesters required to graduate. The program duration is five semesters.

## **TESTING INFORMATION**

**Students who wish to be considered for admission to CFCC’s Radiography 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 health science 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 must 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 requirement is 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 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 test 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 17, 2024 and must be on file in the Health Science Enrollment Center at CFCC in order to be considered for the Radiography program. “Intents to Apply” and results from tests completed after April 17, 2024 will not be accepted.**

**Flexible Testing Options:** Applicants may take the TEAS exam at any available PSI Test Center (see ATI at <https://www.atitesting.com/teas> for a list of locations), remotely with ATI, **or on campus with limited availability at the CFCC Union Station Testing Center (maximum of two times at CFCC per academic year; no limits set if testing off campus).**

**Testing Locations:** All available on campus test sessions for the Radiography 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 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 Radiography program may use this option but must be aware of the testing/“Intent” deadline of April 17, 2024).**

**Testing with Accommodations:** Students who need accommodations for the TEAS test should contact Student Accessibility Services (SAS) at [sas@cfcc.edu](mailto: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 be approximately \$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 scores immediately after they complete the TEAS exam. **In order to be considered for the Radiography program, a student must meet the minimum score requirements on the TEAS of an overall score of 59 or higher.** 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:** 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 students from enrolling in a Health Science program, but may prohibit the student from receiving a professional license. If students have questions about eligibility for professional licensure please contact the professional organization’s website.

## **RADIOGRAPHY SELECTION PROCESS**

**The point system was implemented as an objective means for evaluating Radiography applicants.** ALL documents (including official, up to date transcripts) needed for points must be on file at CFCC prior to the application deadline (April 17, 2024). 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 final transcript is received by CFCC prior to the application deadline.

Applicants will be ranked based upon points earned, and **twenty-six (26) students** with the highest point count totals will be required to enroll in a **Radiography Skills Assessment** in the summer of 2024 (see page 8).

If two or more students have an identical point count total, the date and time that the Radiography “Intent to Apply” was submitted successfully (i.e. eligibility criteria were met) will be the determining factor. After completion of the assessment, **18 students with the highest grades in the assessment will be selected to enroll in the Radiography program for fall of 2024.**

**Points are awarded as follows:**

### **SECTION A: Non-Coursework (Note: not a minimum requirement- only used for point count):**

#### **Current CNA or Medical Assisting Certification**

To gain five (5) points, proof of current CNA or Medical Assisting certification must be on file at the Health Science Enrollment Center prior to the application deadline. **Successful completion of CNA or Medical Assisting courses will not satisfy this requirement; certification must be on file.**

- Points for Grade Point Average – ten (10) points will be awarded for students with a **Grade Point Average of 3.5 or higher at CFCC** (minimum of 12 credits, excluding developmental classes).

### **SECTION B: Other Coursework (Note: not a minimum requirement- only used for point count)**

- Five (5) points each for high school Chemistry and Physics courses with a “C” or better. If the applicant is currently a high school senior with a 3.5 or higher GPA (unweighted), he/she is eligible for fifty-five (55) points, if the high school student has not completed college course work that contributes to the point count for this program. Note: A student will not get points for both a 3.5 (unweighted) high school GPA and college courses. Points will be awarded for one or the other, whichever is highest.
- Fifteen (15) points will be given for a college Chemistry course and ten (10) points for a college Physics course (must be “C” or higher and cannot earn points for both high school and college courses in the same area).



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

- Radiography applicants may earn points for the completion of various related courses in CFCC's Radiography program. In order to earn points for college courses, applicants must have achieved grades of "C" or higher. Please refer to the RAD "Point Count Worksheet" for point values.
- Note: To receive points for courses listed on the point count, the courses must be completed before the application deadline.

#### **SPECIAL NOTES:**

- BIO 163 or BIO 168 and BIO 169 must have been taken in the last five (5) years to the start date of the program. First attempt with a letter grade of "C" or better will be considered for the point count.
- 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 apply).

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

### **SECTION D: TEAS Scores (to be taken prior to filing "Intent to Apply"; cut off score requirements must be met)**

Points are awarded for an overall score on the TEAS Exam in the four following areas: Math, Science, Reading, and English and Language Usage for a maximum of 100 points. 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 per academic year. 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: [healthsciences@cfcc.edu](mailto:healthsciences@cfcc.edu)).

### **Calculation of Total Points**

The applicant's total points are calculated using non-course work (GPA and CNA/Medical Assisting certifications), academic course work, and the averaged total of the TEAS (see point count sheet). 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.*

### **Radiography Skills Assessment Requirement for the top 26 students**

- After the point count review, the top twenty-six (26) students with the highest score totals will become semi-finalists and will be required to participate in the *Radiography Skills Assessment*. This will be held during the summer semester for two (2) weeks (beginning June 3 and ending June 12, 2024).
- Students will meet on Monday 6/3, Wednesday 6/5, Friday 6/7, Monday 6/10 and Wednesday 6/12 for three hours in the morning (section A) **OR** three hours in the afternoon (section B).
- The Radiography Skills Assessment is designed to give an overview of the profession and include basic radiographic concepts. Students' understanding of the material will be assessed through interactive lab tasks and written exams.
- The attendance **requirement is 100 percent and missing one or more sessions will result in failing the assessment**. Students who pass the assessment will be ranked by their degree of radiography skills and potential for successful program completion based on the evaluation. **The top 18 students** will be accepted and will begin class in August of 2024.

### **SPECIAL NOTES:**

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

**Applying to Multiple Programs:** If accepted into multiple health science 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 Radiography program and give up any seats in other programs, unless granted prior approval by the staff of the HSEC. Any questions or concerns should be addressed to the staff members of the HSEC: [healthsciences@cfcc.edu](mailto:healthsciences@cfcc.edu).

### **NOTIFICATION PROCEDURE**

Eighteen (18) students will be admitted to the Radiography Program for the fall of 2024.

Radiography applicants will be conditionally accepted into the program pending the submission and review of a medical history form, drug screening, criminal background check and CPR certification.

All Radiography applicants will receive notification via CFCC email of their status for the upcoming program year. **The top eighteen students who are selected will be notified when to complete the following information:**

#### **1. Physical Exam and Immunizations**

All completed health/medical reports must be received by the specified date noted in the materials provided at the program orientation. This includes a required Covid-19 vaccination. More details will be given at the new student orientation after acceptance.

## 2. CPR

Students must also submit documentation of current two-year CPR certification in American Heart Association (AHA), Basic Life Support BLS, or BCLS (adult, child, and infant). Classes are available through any American Heart CPR Provider <https://cpr.heart.org/en/course-catalog-search>. More details will be given at the new student orientation after acceptance.

## 3. Criminal Background Check and Drug Screening

**Information on specifics will be given at orientation after acceptance.** Clinical sites require a drug screening and a criminal background check prior to allowing students into the clinical setting (any associated fees will be the responsibility of the student). Criminal Background and Drug screen results will be shared with any clinical site that requests it. Clearance is determined by the site and any student that is not cleared will not be eligible for enrollment in the program. Testing positive on the drug screening, or evidence of tampering with a specimen, will disqualify a student from participation from 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 Radiography Program.** **Information on obtaining a criminal background check will be provided in the student's acceptance email.** More details will be given at the new student orientation after acceptance.

Be advised that if a student has been convicted of a crime with the sole exception of speeding and parking violations, the student may not be eligible to take the ARRT national certification registry exam. This means that the student can never become registered and thus will not be able to practice as a Registered Radiographer. If a student has ever been convicted of a crime, the ARRT may be contacted to resolve this issue prior to applying for acceptance into this program. For further inquiries concerning this, contact the ARRT directly at (651) 687-0048 or visit their web site at [www.arrt.org](http://www.arrt.org).

## 4. Transportation

Students must provide their own transportation to clinical sites. Applicants should be aware that travel in areas outside of New Hanover County will be required for clinical placement. The out of town clinical sites (30-60 miles) may include Doshier Memorial Hospital in Southport, NC and Brunswick Novant in Bolivia, NC.

## PROGRESSION POLICY

Students admitted to the Radiography Program must achieve or have achieved a “C” in each course in the curriculum in the sequence described in the curriculum schedule in order to progress semester by semester.

### Grading Policy

A	92-100
B	84-91
C	76-83
D	68-75
F	below 67

A semester credit hour is equivalent to 16 hours of classroom instruction or 48 hours of laboratory or clinical instruction.

## PHYSICAL AND COGNITIVE EXPECTATIONS OF A STUDENT RADIOGRAPHER

Radiography is a practiced discipline with cognitive, sensory, affective, and psychomotor performance requirements. Students will be an excellent candidate for this field if they like to be active and enjoy working with a variety of people. Good communication, problem-solving and analytical skills are also important for radiographers. The profession is a physically demanding one. Tasks on a typical day include assisting with lifting patients, transporting patients on stretchers or in wheelchairs, and moving heavy portable imaging equipment within the hospital. The environment is fast paced and stressful and students will be on their feet for several hours at a time. The radiographer must also respond to audio signals and alarms and be able to differentiate subtle shades of gray on a diagnostic image.

For purposes of program compliance with the 1990 Americans with Disabilities Act, a qualified individual is one who, with or without reasonable accommodation or modification, meets the essential eligibility requirements for participation in the Radiography program. If students believe program requirements cannot be met without accommodations or modification, Student Accessibility Services will determine on an individual basis, whether accommodations can be reasonably made.

Student Accessibility Services at 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.

### REQUIRED TECHNICAL STANDARDS

Because of the requirements inherent in performing radiologic procedures in clinical environments, the following “non-academic” technical standards have been defined for Radiography applicants. Should a student NOT be able to meet the following demands, the student may be counseled to consider a change of major for their own safety and that of the patient. The essential functions are listed below.

*Students are advised to read the standards carefully and to seek clarification if necessary.*

Criterion	Standard	Examples of Necessary Activities
Motor Function	Good manual dexterity, motor skills and eye hand coordination are necessary.	<ul style="list-style-type: none"><li>● Reach, manipulate, and operate radiographic and fluoroscopic equipment, which is above shoulder level (about six feet off the floor).</li><li>● Lift and carry at least thirty (30) pounds of weight in order to safely transport and use ancillary aids (cassettes, sandbags, portable equipment, etc.) when performing radiologic procedures.</li><li>● Safely move standard wheelchairs and stretchers with patients from the emergency or waiting areas to radiologic examining rooms and safely assist mobile patients from the stretcher or wheelchair to the examining table and back without assistance.</li><li>● Safely move immobile patients from stretcher to examining table and back with assistance from departmental personnel.</li><li>● Lift, manipulate, and move patients as necessary for the performance of radiologic procedures.</li></ul>

Observation	The ability to observe the patient and any environmental activity is necessary.	<ul style="list-style-type: none"> <li>● Correctly read technique charts, read and select correct exposure factors at control consoles, and read and set correct distances and other equipment settings at the radiographic and fluoroscopic towers.</li> <li>● Monitor equipment and background sounds during equipment operation and report unusual or abnormal sounds to the appropriate person.</li> <li>● Visually monitor patients for retention of correct position, correct breathing, motion or evidence of physical or emotional distress during the performance of radiologic procedures, including in dimly lit environments.</li> <li>● Monitor and evaluate the vital signs of a patient including the taking of temperatures and reading standard thermometers, taking blood pressure, monitoring respiration, and pulse rate.</li> </ul>
Communication	The ability to speak, hear, and observe patients is necessary.	<ul style="list-style-type: none"> <li>● Communicate clearly, both orally and in writing, with the patient, patient's family, clinical personnel, and others in order to obtain or disseminate information relevant to patient care and work duties.</li> <li>● Read and correctly carry out written instructions given on requisitions, treatment charts, notes, and other records.</li> <li>● Understand and correctly carry out oral instructions given by instructors and clinical personnel in the special procedures suite or operating room setting where all personnel are wearing surgical masks.</li> </ul>
Visual Acuity	The ability to see fine detail is necessary.	<ul style="list-style-type: none"> <li>● Evaluate radiographs for technical quality including visual perception of density levels, contrast levels, evidence of distortion, and evaluation of minute structural details for evidence of blur.</li> </ul>
Mental Stability	The ability to handle stressful situations is necessary.	<ul style="list-style-type: none"> <li>● Demonstrate emotional stability and mental alertness in day-to-day interactions with patients, visitors, staff, and peers in high stress/pressure situations in the radiologic environment.</li> </ul>

Students who feel they need accommodation 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.

## PROFESSIONAL CERTIFICATION

Graduation from the Radiography program does not guarantee eligibility for the American Registry of Radiologic Technologists Registry Examination (ARRT). Other eligibility requirements of the ARRT must be met. Individuals with misdemeanor/felony convictions should apply to ARRT for an evaluation of examination eligibility prior to admission to this program. To request a pre-application review form, phone ARRT at 651-687-0048, ext. 544; write to them at 1255 Northland Drive, St. Paul, MN 55120-1155 or go online at [www.arrt.org](http://www.arrt.org).

## **ACCREDITATION OF PROGRAM**

The Radiography Program is fully accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago, IL 60606, Tel. (312) 704-5300. [www.jrcert.org](http://www.jrcert.org).

## **RESOURCES/ASSISTANCE**

For questions or concerns regarding the selective admission process and other available resources, please contact a staff member of the Health Science Enrollment Center in Union Station Building (Room U-297) at the Wilmington Campus; [healthsciences@cfcc.edu](mailto: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-Radiography or a Pre-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, scholarships, and more. 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 whether they are admitted to the program of their choice until this deadline passes. For more information, please visit the Foundation website: <https://cfcc.edu/foundation/>.

## CAPE FEAR COMMUNITY COLLEGE

### TUITION & FEES

Payment methods: cash, check, money order, VISA, MasterCard, American Express, Discover, financial aid, payment plan, or third (3<sup>rd</sup>) 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

Professional 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 7/2019

## Cape Fear Community College

### Estimated Expenses Radiography Program 2024

#### First Semester (Fall)

Tuition/Fees (IN-STATE)	\$1,374.00
<b><i>Tuition/Fees (OUT-OF-STATE)</i></b>	<b><i>4,446.00</i></b>
Uniforms	200.00
Insurance	30.00
Books	500.00
Criminal Background, Drug	143.00
Screen & Immunization Tracker	
Physical	100.00
CPR	40.00

<b>Total (IN-STATE)</b>	<b>\$2,387.00</b>
<b><i>Total (OUT-OF-STATE)</i></b>	<b><i>\$5,459.00</i></b>

#### Second Semester (Spring)

Tuition/Fees (IN-STATE)	\$1,374.00
<b><i>Tuition/Fees (OUT-OF-STATE)</i></b>	<b><i>4,446.00</i></b>
Books	200.00

<b>Total (IN-STATE)</b>	<b>\$1,574.00</b>
<b><i>Total (OUT-OF-STATE)</i></b>	<b><i>\$4,646.00</i></b>

#### Third Semester (Summer)

Tuition/Fees (IN-STATE)	\$979.00
<b><i>Tuition/Fees (OUT-OF-STATE)</i></b>	<b><i>3,091.00</i></b>
Books	100.00
Criminal Background, Drug	85.00
Screen rechecks	
TB 1-step	75.00

<b>Total (IN-STATE)</b>	<b>\$1,239.00</b>
<b><i>Total (OUT-OF-STATE)</i></b>	<b><i>\$3,351.00</i></b>

<b>Total cost first year (IN-STATE)</b>	<b>\$5,200.00</b>
<b><i>Total cost first year (OUT-OF-STATE)</i></b>	<b><i>\$13,456.00</i></b>

#### Fourth Semester (Fall)

Tuition/Fees (IN-STATE)	\$1,374.00
<b><i>Tuition/Fees (OUT-OF-STATE)</i></b>	<b><i>4,446.00</i></b>
Books	150.00
Insurance	30.00
<b>Total (IN-STATE)</b>	<b>\$1,554.00</b>
<b><i>Total (OUT-OF-STATE)</i></b>	<b><i>\$4,626.00</i></b>

#### Fifth Semester (Spring)

Tuition/Fees (IN-STATE)	\$1,137.00
<b><i>Tuition/Fees (OUT-OF-STATE)</i></b>	<b><i>3,633.00</i></b>
Books	100.00
Cap & Gown	50.00

<b>Total (IN-STATE)</b>	<b>\$1,287.00</b>
<b><i>Total (OUT-OF-STATE)</i></b>	<b><i>\$3,783.00</i></b>

<b>Total cost second year (IN-STATE)</b>	<b>\$2,841.00</b>
<b><i>Total cost second year (OUT-OF-STATE)</i></b>	<b><i>\$8,409.00</i></b>

#### **Estimated cost of program without travel expenses to clinical sites is**

<b>IN-STATE.....</b>	<b>\$8,041.00</b>
<b><i>OUT-OF-STATE.....</i></b>	<b><i>\$21,865.00</i></b>

**Upon successful completion of this program students may apply to take the American Registry of Radiologic Technologists Registry exam. Fees associated with this exam are currently \$225.00**



## Radiography (A.A.S.) Degree Curriculum

**I. General Education Courses-** *These courses will add to the student's total point count and are required for graduation.*

Course #	Course Name	Credits	Notes
MAT	MAT 110 or higher	3	
BIO 163	Basic Anatomy & Physiology <i>Can substitute BIO 168 &amp; BIO 169 for this course</i>	5	<i>Use this course for the minimum Biology requirement</i>
ENG 111	Writing & Inquiry or Expository Writing	3	
COM 110	Introduction to Communication	3	May substitute COM 120 or 231 for this course
PSY 150 or SOC 210	General Psychology or Intro to Sociology	3	Either course is accepted
Any	Humanities Elective	3	<i>Suggested: PHI 215, PHI 230, PHI 240 or HUM 115 (may substitute)</i>

**II. Other Courses-** These courses are not required for graduation, but will add to the point count.

Any	High School or College Chemistry		<i>See point count worksheet</i>
Any	High School or College Physics		<i>See point count worksheet</i>

**III. Major Courses-** *Students will take these once officially accepted into the Radiography program and their major has been changed from Pre-Radiography to Radiography. All courses below are taken in this sequence. Note: Any General Education course from above that has not been taken prior to acceptance are required for graduation (see course catalog to determine the semester that the general education courses must be completed).*

Fall of First Year:

RAD 110	Rad Intro & Patient Care	3
RAD 111	Rad Procedures I	4
RAD 151	Rad Clinical Ed I	2
RAD 182	Rad Clinical Elective	2

Spring of First Year:

RAD 112	Rad Procedures II	4
RAD 121	Image Production I	3
RAD 161	Rad Clinical Ed II	5

Summer of First Year:

RAD 122	Image Production II	2
RAD 141	Radiation Safety	2
RAD 171	Rad Clinical Ed III	3
RAD 281	Rad Clinical Elective	1

Fall of Second Year:

RAD 211	Rad Procedures III	3
RAD 231	Image Production III	2
RAD 251	Rad Clinical Ed IV	7

Spring of Second Year:

RAD 113	Rad Lab Elective	1
RAD 261	Rad Clinical Ed V	7
RAD 271	Radiography Capstone	3

Total Credits = 74

# RADIOGRAPHY | FALL 2024

## MINIMUM REQUIREMENTS

- 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 or higher (criteria waived if students do not have an established GPA at CFCC)
- Completion of a Biology course 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

## POINT COUNT WORKSHEET

### SECTION A: NON-COURSEWORK

GPA of 3.5 or higher at CFCC (min 12 cr.) (10pts) \_\_\_\_\_  
 Current Medical Assisting or NA Certification (5pts) \_\_\_\_\_

### SECTION B: OTHER COURSEWORK

High School Physics Course + (5pts) \_\_\_\_\_  
 High School Chemistry Course ++ Current HS (5pts) \_\_\_\_\_  
 Senior with an unweighted (55pts) \_\_\_\_\_

3.5 GPA or better  
 (Will not get points for both HS GPA and college courses)

College Physics Course ("C" or better) + (10pts) \_\_\_\_\_  
 College Chemistry Course ("C" or better) ++ (15pts) \_\_\_\_\_  
 + only one Physics course can earn points toward the total  
 ++ only one Chemistry course can earn points toward the total

### SECTION C: 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 163 Basic Anatomy and Physiology (5 sem hrs) A (30pts) \_\_\_\_\_  
 B (20pts) \_\_\_\_\_  
 C (10pts) \_\_\_\_\_

OR

\*BIO 168 Anatomy and Physiology I (4 sem hrs) A (20pts) \_\_\_\_\_  
 B (15pts) \_\_\_\_\_  
 C (10pts) \_\_\_\_\_

AND

\*BIO 169 Anatomy and Physiology II (4 sem hrs) A (20pts) \_\_\_\_\_  
 B (15pts) \_\_\_\_\_  
 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 2019); therefore, points will not be awarded AND cannot use courses towards graduation.

MAT 110 Math Measurement & Literacy OR higher (3 sem hrs) A (5pts) \_\_\_\_\_  
 B (3pts) \_\_\_\_\_  
 C (1 pt) \_\_\_\_\_

Student must be proficient in DMA 010 through DMA 050

ENG 111 Writing & Inquiry (Expository Writing) (3 sem hrs) A (5pts) \_\_\_\_\_  
 B (3pts) \_\_\_\_\_  
 C (1 pt) \_\_\_\_\_

COM 110 Intro to Communication (3 sem hrs) A (5pts) \_\_\_\_\_  
 OR B (3pts) \_\_\_\_\_  
 COM 120 Intro to Interpersonal Com (3 sem hrs) C (1 pt) \_\_\_\_\_

OR

COMM 231 Public Speaking (3 sem hrs)

PSY 150 General Psychology (3 sem hrs) A (5pts) \_\_\_\_\_  
 OR B (3pts) \_\_\_\_\_  
 SOC 210 Introduction to Sociology (3 sem hrs) C (1 pt) \_\_\_\_\_

Humanities/Fine Arts Elective A (5pts) \_\_\_\_\_  
 (suggested: PHI 215, PHI 230, PHI 240 OR HUM 115) B (3pts) \_\_\_\_\_  
 C (1 pt) \_\_\_\_\_

Total Points \_\_\_\_\_

(Maximum total for sections A, B & C is 105)

### SECTION D: TEAS (VERSIONS 6 AND 7)

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

Score Total

(Maximum total for section D 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	_____
Section C	_____
Section D	_____
<b>Grand Total</b>	_____

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).

