ASSOCIATE OF APPLIED SCIENCE DEGREE IN RADIOGRAPHY

Application Period

January 13, 2020 through April 10, 2020

Information Sessions

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
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<tbody>
<tr>
<td>Monday</td>
<td>October 21, 2019</td>
<td>2:00 – 3:00 pm</td>
<td>L-107</td>
</tr>
<tr>
<td>Thursday</td>
<td>January 16, 2020</td>
<td>2:00 – 3:00 pm</td>
<td>L-107</td>
</tr>
<tr>
<td>Wednesday</td>
<td>April 8, 2020</td>
<td>2:00 – 3:00 pm</td>
<td>L-107</td>
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APPOINTMENT NOT NECESSARY
NO POINTS WILL BE AWARDED FOR SESSIONS ATTENDED IN PREVIOUS YEARS.

Minimum requirements are subject to change each academic year.
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/](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 8:00 am to 3:30 pm. During the second year of the program students will rotate three to four weeks through weekend and weeknight shifts (3:00 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 these 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 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.
- Students will competently perform routine radiographic procedures.
- Students/graduates will provide proper patient care and management.
- Students/graduates will demonstrate proper radiation safety practices to patients, self and others.
- The student/graduate 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, critical thinking and communication skills in the performance of medical imaging procedures.
- Students/graduates will demonstrate competence in non-routine examinations.
- Students/graduates will demonstrate effective communications skills.
Program Goal #3: The graduates of the program will demonstrate professional behaviors as part of a healthcare team.

- The students will demonstrate adherence to professional ethics and standards.
- The students will demonstrate behaviors that promote teamwork.
- The graduate will demonstrate professional behaviors and exhibit interest in professional radiologic technology organizations and professional development.

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

- Students will complete the program within 2 years.
- Graduates will pass the ARRT exam on the first attempt.
- Graduates will seek employment in radiography or enter advanced education programs within 12 months.
- Employers will indicate satisfaction with graduates’ quality of work.
- Graduates of the program will indicate satisfaction with preparation for employment.

APPLICATION PROCESS

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

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 Radiography program at CFCC requires a separate 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: www.cfcc.edu/radiography.

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

1. Complete the CFCC General Admissions Application, which includes the Residency Determination Application. For students who have applied to or have taken classes at CFCC before, your application has to be active. If you have not attended classes at CFCC for one year or longer you 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 by mail or by hand delivery to CFCC in the original, sealed envelope from the awarding institution or agency. North Carolina public high school graduates may request their official high school transcripts be sent electronically to the Admissions Office via the College Foundation of North Carolina (CFNC) website at www.cfnc.org. Home schooled students must submit a copy of the home school’s approved registration from the state in which they are registered, and an official transcript including the graduation date and documentation of completion of competency testing.

3. Request official transcripts from all colleges/universities attended (if applicable). Transcripts must be mailed to the Admissions and Records Office. These will be reviewed for possible transfer credit.
Once accepted into CFCC, students will file an “Intent to Apply” electronically and meet the following minimum requirements:

1. Meet minimum English and Math requirements
   To be eligible to apply to the program, all applicants must be waived from testing or meet the minimum requirements on the appropriate Placement Test.

   Prior completion of English 111 or equivalent and Math 115, 121, 143 or higher with a grade of “C” or better may eliminate taking the Placement Test.

   An unweighted North Carolina high school GPA of 2.6 or higher may waive placement testing (graduation within the last 5 years). The student must meet specific high school math course requirements for high school GPA consideration ("Multiple Measures").

   If waivers are not received via course credit or high school GPA (see above) students who wish to apply for the Radiography program must have taken the Placement Test and met minimum cut-off scores within the previous five years.

To meet application requirements, you must demonstrate proficiency in DRE 098 and DMA 010 through DMA 050.

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<tr>
<th>Compass</th>
<th>Accuplacer (CPT)</th>
<th>NC DAP</th>
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<tbody>
<tr>
<td>151 Reading + Writing</td>
<td>166 Reading + Sentence</td>
<td>151 English</td>
</tr>
<tr>
<td>47 Pre-Algebra</td>
<td>55 Arithmetic</td>
<td>*7 Math (DMA 010 – DMA 050)</td>
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<tr>
<td>46 Algebra</td>
<td>55 Elem Algebra</td>
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*A score of 7 or higher on each DMA 010 through DMA 050 on the NC DAP Math exam.

SAT
500 Reading or 500 Writing  (prior to March 2016)
Or
480 Evidence-Based Reading/Writing (tested after March 2016)
500 Math (prior to March 2016)
Or
530 Math (tested after March 2016)

ACT
18 English or
22 Reading
22 Math

If an applicant scores less than the minimum cut-off scores on the Placement Test, he/she will be required to complete the essential sequence of developmental courses/modules. If the student completes all of the required developmental courses/modules with a grade of “C” or higher and/or a grade of “P” prior to the application deadline date and meets the other minimum requirements, he/she may be considered for admission to the program.

The Placement Test may be taken twice in twelve consecutive months. Applicants who violate the testing policy will be disqualified. Placement tests which violate the testing policy will be disregarded. Students who have taken the Placement Test at another community college in the past five (5) years are responsible for ensuring that the official scores are sent to Cape Fear Community College. These scores must be received prior to filing the “Intent to Apply” to the program.

If the Placement Test has been taken at another community college in the past five years, it is the student’s responsibility to ensure that the scores are transferred to Cape Fear Community College.
NOTE: Students who placed into developmental classes are encouraged to complete the course sequences as soon as possible. Placement testing will be discontinued as a waiver option next year due to the implementation of RISE, the new placement indicator.

Accommodations for testing due to a documented disability may be made with the Disability Support Services office in the Union Station Building (U-218) or call (910) 362-7012 or (910) 362-7158.

2. Have an overall GPA of 2.5 or higher in all post-secondary coursework completed at Cape Fear Community College. Your GPA must maintain a 2.0 or higher at the time of entry into the program. If your CFCC GPA is below 2.5 and you have not been enrolled in CFCC for 3 consecutive years, you may be eligible for “Academic Forgiveness” (refer to the 2019-2020 catalog).

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 45 on the Pre-2002 GED, a 450 on the 2002-2013 GED, a 145 on the 2014-present GED, or a 45 on the 2014-present HiSet. Interested applicants who need to meet the Biology requirement should complete BIO 163 or BIO 168. (If the student takes BIO 168, they must also take BIO 169 to meet graduation requirements.)

4. FILE “INTENT TO APPLY” (Note: Changes for 2020)
An “Intent to Apply” for the Radiography Program may be completed ONLINE during the application period of January 13, 2020 through April 10, 2020. Please visit the programs’ website (www.cfcc.edu/radiography), study the instructions, and click on the “File My Intent” button to proceed. Make sure to complete all required fields/areas all the way to the end of the form where an electronic signature will be required. If your “Intent” is successful, i.e. all eligibility requirements are met, you will receive an e-mail with “The Next Steps” in your CFCC e-mail account. This e-mail includes instructions on how to pay for the PSB and schedule the test. Applicants must file the “Intent to Apply” prior to the last day of the application period. 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: Courses taken in the spring semester 2020 will not count towards your point count total.

NOTE: the “Intent to Apply” form is not an application to the Radiography Program. It is only the first step in the formal application process.

“Intent to Apply” Checklist for the Radiography Program:

• Check that you have been admitted to CFCC (by Admissions) or that your application status is active
• Check that your official high school transcript is on file at CFCC
• Check that your official college/university transcripts (if applicable) are on file at CFCC
• Have an overall GPA at CFCC of 2.5 or higher (criteria waived if you do not have an established GPA at CFCC)
• Meet English and Math eligibility (see page 3)
• Must have completed a Biology class with a grade of “C” or better within the last five (5) years
5. PSYCHOLOGICAL SERVICES BUREAU (PSB) ADMISSIONS EXAM (Note: Changes for 2020)

Students who meet the minimum application requirements will be prompted to schedule the Health Occupations PSB Admissions exam following the successful completion of their “Intent to Apply”. Instructions on how to pay for the PSB exam will be included in the e-mail to those students whose Intent to Apply meets eligibility requirements. A $25.00 non-refundable fee will be charged to take the Health Occupations PSB. **Potential applicants to the Radiography Program may take the Health Occupations PSB twice per application period.** Those who have taken the Health Occupations PSB for Radiography in previous years should be aware that only score totals from the two most recent attempts within the last 5 years will be considered. **Change for 2020: the highest overall score of the two most recent tests will be used on the point count. Highest percentile score in each area will NO LONGER be considered for points (i.e. we will not create a new score using the highest points in each test category any longer).**

Note: rescheduling of PSB exams will only be considered in the case of extenuating circumstances (i.e. such as a medical emergency) and the applicant must provide documentation. The Dean of Enrollment Management MAY choose to issue a “Stand by Pass” for testing. A “Stand by Pass” does not guarantee admission to the test; admission to the test may be determined by seat availability. Please check your academic and personal calendars before scheduling the exam online.

A study guide for the PSB Exam can be accessed at: cfcc.edu/testing/psbtesting. It is recommended that you purchase a PSB study guide. These are available for purchase online and in most book stores. In addition, the staff in the CFCC Learning Lab (910-362-7684) may be able to provide resource materials to help prepare for the PSB exam.

You will receive an official copy of your scores 3 to 5 days after you complete the PSB exam. The minimum score requirement to move forward in the application process is to have a 60% average composite score in the following sections: Academic Aptitude (to include Verbal, Arithmetic, Non-Verbal), Spelling, Reading Comprehension, Natural Sciences, and Vocational Adjustment Index. If you have met the minimum score requirements in the five (5) required areas, you will be invited to review your point count electronically after the application deadline and after all point counts are completed. You will receive a copy of your point count from the Health Science Enrollment Center via email late-spring 2020, including instructions on how to agree or recheck the total point count.

Students who apply into multiple health science programs at CFCC that use the Health Occupations PSB may test only twice per application period and are required to have score totals “renormed” for the additional programs. This means that test results will be recalculated to apply to each specific health science program. A $25 fee applies for each renorming request.

**NOTE:** If eligible, a student may file an “Intent to Apply” into multiple health science programs. If selected into more than one, the student is 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:** 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 will prohibit the student from receiving a professional license. If you have questions about eligibility for professional licensure please contact the professional organization’s website.
TIME FRAME

Applications for the Radiography Program will be available beginning **January 13, 2020 through April 10, 2020** on the program website at cfcc.edu/radiography. Applicant must file the “Intent to Apply” electronically and schedule the PSB exam by 4:30 on the last day of the application period.

It is the applicants’ responsibility to ensure that all requirements are met prior to filing your “Intent to Apply” to the program. Admission deadlines, guidelines, and policies for the Radiography program apply equally to all students; thus, **there can be no exceptions.**

RADIOGRAPHY SELECTION PROCESS

**The Point System** was implemented as an objective means for evaluating Radiography Program applicants. ALL documents needed for points must be on file at CFCC on or prior to the application deadline. No points will be awarded for documentation received after the application deadline. See Radiography “Point Count Worksheet” for point values.

**Twenty four (24) students** with the highest point count totals will be invited and required to enroll in a Radiography **Skills Awareness course** that will be taught in the summer of 2020 (see page 7).

If two or more students have the same 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 deciding factor. After completion of the course, **18 students with the highest grades will be selected to enroll in the Radiography program for fall of 2020.**

**SECTION A: Non-Coursework**
- Points for Information Session – ten (10) points will be awarded for attending one Radiography Program Information Session for the current year. In order to receive points, you must attend one of the sessions listed below. No points will be awarded for sessions attended in previous years. A certificate of attendance must be filled out (by student) and collected by a faculty member immediately after the information session in order for points to be awarded. Points will not be awarded for late arrival or if you leave the information session early.

  - Monday October 21, 2019 2:00 – 3:00 pm  Room L-107
  - Thursday January 16, 2020 2:00 – 3:00 pm  Room L-107
  - Wednesday April 8, 2020 2:00 – 3:00 pm  Room L-107

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

**SECTION B: Other Coursework**
- Five (5) points each for high school chemistry and physics course 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 course in the same area.)
SECTION C: College 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. See “Point Count Worksheet” for point values.
- 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 your program evaluation.
  - A computer course is no longer a program requirement, but computer competency is required for college graduation in NC. This can be met by taking CIS 110/111 or by taking a computer competency exam in the CFCC Learning Lab.

SECTION D: PSB Admissions Test

Percentiles in 5 areas of the PSB Exam -- I) Academic Aptitude (to include Verbal, Arithmetic, Non-Verbal), II) Spelling, III) Reading Comprehension, IV) Natural Sciences, and V) Vocational Adjustment Index are used in calculating the points earned in this section. These 5 percentiles are averaged and this value is used toward the applicant’s total points. A minimum average composite score of 60% is necessary to apply to the program.

Calculation of Total Points

The applicant’s total points are calculated using attendance at information sessions, academics (completed course work) and the grand total of the PSB. The highest grand total of the two most recent eligible PSB tests will be selected for this calculation. Please refer to the point count sheet for details.

As stated earlier applicants who met the score totals that average 60% or higher in the 5 required areas will receive a point count for review via e-mail. APPLICANTS WHO FAIL TO RESPOND TO THE REQUEST TO REVIEW THEIR POINT COUNT WILL WAIVE THEIR RIGHT TO CONTEST THEIR POINT TOTALS. Applicants’ point counts are confidential. To protect your privacy, point count totals cannot be discussed on the telephone.

Radiography Skills Awareness Course Requirement for the top 24 students

- After the point count review, the top twenty-four (24) students with the highest score totals will become semi-finalists.
- They will be notified by email and are required to enroll in the mandatory course, Radiography Skills Awareness. This class will be held during the summer semester for two (2) weeks (beginning June 1 and ending June 10, 2020).
- Students will meet on Monday 6/1, Wednesday 6/3, Friday 6/5, Monday 6/8 and Wednesday 6/10 for three hours in the morning or three hours in the afternoon.
- This course 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.
- Course attendance requirement is 100 percent and missing one or more classes will result in an unsatisfactory grade of “U” and failing the course. Students receiving an “S” will be ranked by their degree of radiography skills awareness and potential for successful program completion based on the evaluation methods above. The top 18 students will be accepted into the current year’s class to begin in the fall of 2020.
- NOTE: The Radiography Skills Awareness course is taught through CFCC’s Continuing Education Department; therefore, it is not covered by financial aid. Any fees (approx. $75) associated with this course will be the student’s responsibility.
Acceptance into the program is for the current year only (2020-2021). Students that decline their seat will need to reapply for future admission.

NOTIFICATION PROCEDURE

Eighteen (18) students will be admitted to the Radiography Program for the fall of 2020.

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.

The top Eighteen students who are selected will be notified when to complete the following information:

1. **Physical Exam and Immunizations**
   All accepted students will be sent the North Carolina Community College System Medical Forms. These completed health/medical reports must be received by the specified date noted in the acceptance correspondence via email.

2. **CPR**
   You must submit documentation of the American Hearth Association (AHA) Basic Life Support BLS or BCLS (adult, child and infant). This is good for two years. Classes are available through First Hands CPR, Inc., 613 Bracken Fern Road, Wilmington, NC 28405, Telephone: 910-352-3777, Email: firsthandscpr@ec.rr.com, http://firsthandscpr.com. This is not required until Fall semester when entering Clinical Practicum I. Information on specifics will be given at 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). 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. For further information, students should see the “Drug and Alcohol Policy” in the 2019-2020 CFCC Student Handbook. Students must access a criminal background check at https://mycb.castlebranch.com or by calling 888-914-7279. Background checks from other companies will not be accepted.

   Be advised that if you have been convicted of a crime with the sole exception of speeding and parking violations, you may not be eligible to take the ARRT national certification registry exam. This means that you can never become registered and thus will not be able to practice as a Registered Radiographer. If you have ever been convicted of a crime, you are encouraged to contact the ARRT and 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.

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) include, Dosher 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

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<th>Range</th>
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<tr>
<td>A</td>
<td>92-100</td>
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<tr>
<td>B</td>
<td>84-91</td>
</tr>
<tr>
<td>C</td>
<td>76-83</td>
</tr>
<tr>
<td>D</td>
<td>68-75</td>
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<tr>
<td>F</td>
<td>below 67</td>
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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 practice discipline with cognitive, sensory, affective, and psychomotor performance requirements. You’ll be an excellent candidate for this field if you 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 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 you will be on your 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 with a disability is one who with or without reasonable accommodation meets the essential eligibility requirements for participation in the Radiography program. If students believe program requirements cannot be met without accommodations or modification, Disability Support Services will determine on an individual basis, whether accommodations can be reasonably made.

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.
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 you NOT be able to meet the following demands, you may be counseled to consider a change of major for your own safety and that of the patient. The essential functions are listed below.

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

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<th>Criterion</th>
<th>Standard</th>
<th>Examples of Necessary Activities</th>
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<tr>
<td>Motor Function</td>
<td>Good manual dexterity, motor skills and eye hand coordination are necessary.</td>
<td>- Reach, manipulate, and operate radiographic and fluoroscopic equipment, which is above shoulder level (about six feet off the floor).&lt;br&gt;- 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.&lt;br&gt;- Safely move standard wheel chairs and stretchers with patients from the emergency or waiting areas to radiologic examining rooms and safely assist mobile patients from the stretcher or wheel chair to the examining table and back without assistance.&lt;br&gt;- Safely move immobile patients from stretcher to examining table and back with assistance from departmental personnel.&lt;br&gt;- Lift, manipulate, and move patients as necessary for the performance of radiologic procedures.</td>
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<td>Observation</td>
<td>The ability to observe the patient and any environmental activity is necessary.</td>
<td>- 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.&lt;br&gt;- Monitor equipment and background sounds during equipment operation and report unusual or abnormal sounds to the appropriate person.&lt;br&gt;- Visually monitor patient 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.&lt;br&gt;- 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.</td>
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<td>Communication</td>
<td>The ability to speak, hear and observe patients is necessary.</td>
<td>- 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.&lt;br&gt;- Read and correctly carry out written instructions given on requisitions, treatment charts, notes and other records.&lt;br&gt;- 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.</td>
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<td>Visual Acuity</td>
<td>The ability to see fine detail is necessary.</td>
<td>- 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.</td>
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<td>Mental Stability</td>
<td>The ability to handle stressful situations is necessary.</td>
<td>- 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.</td>
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Students who feel they need accommodations should contact the Disability Support Services office in the Union Station Building (Room U-218) on the Downtown Campus or call 910 362-7012 or 910 362-7158.

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.

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.

RESOURCES/ASSISTANCE
If you have questions or concerns regarding the selective admission process, 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; 910-362-7139.
TUITION & FEES

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

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
<th>IN-STATE TUITION</th>
<th>OUT-OF-STATE TUITION</th>
<th>STUDENT ACTIVITY FEES</th>
<th>PARKING &amp; SECURITY FEE</th>
<th>TECHNOLOGY FEES</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>76.00</td>
<td>268.00</td>
<td>35.00</td>
<td>40.00</td>
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<td>40.00</td>
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<td>40.00</td>
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<td>4</td>
<td>304.00</td>
<td>1072.00</td>
<td>35.00</td>
<td>40.00</td>
<td>9.00</td>
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<tr>
<td>5</td>
<td>380.00</td>
<td>1340.00</td>
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<td>40.00</td>
<td>12.00</td>
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<td>6</td>
<td>456.00</td>
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<td>40.00</td>
<td>15.00</td>
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<td>7</td>
<td>532.00</td>
<td>1876.00</td>
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<td>75.00</td>
<td>18.00</td>
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<td>8</td>
<td>608.00</td>
<td>2144.00</td>
<td>35.00</td>
<td>75.00</td>
<td>21.00</td>
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<tr>
<td>9</td>
<td>684.00</td>
<td>2412.00</td>
<td>35.00</td>
<td>75.00</td>
<td>24.00</td>
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<td>10</td>
<td>760.00</td>
<td>2680.00</td>
<td>35.00</td>
<td>75.00</td>
<td>27.00</td>
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<tr>
<td>11</td>
<td>836.00</td>
<td>2948.00</td>
<td>35.00</td>
<td>75.00</td>
<td>30.00</td>
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<tr>
<td>12</td>
<td>912.00</td>
<td>3216.00</td>
<td>35.00</td>
<td>75.00</td>
<td>33.00</td>
</tr>
<tr>
<td>13</td>
<td>988.00</td>
<td>3484.00</td>
<td>35.00</td>
<td>75.00</td>
<td>36.00</td>
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<td>14</td>
<td>1064.00</td>
<td>3752.00</td>
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<td>75.00</td>
<td>42.00</td>
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<td>4020.00</td>
<td>35.00</td>
<td>75.00</td>
<td>45.00</td>
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<tr>
<td>16 OR MORE</td>
<td>1216.00</td>
<td>4288.00</td>
<td>35.00</td>
<td>75.00</td>
<td>36.00</td>
</tr>
</tbody>
</table>

PROFESSIONAL LIABILITY INSURANCE: $15.00 PER SCHOOL YEAR (Health Science Students)
FULL TIME: 12 CREDIT HOURS
3/4 TIME: 9 CREDIT HOURS
1/2 TIME: 6 CREDIT HOURS

Revised 7/2019
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-Nursing or a Pre-Health Science program, you will need to pay careful attention to the number of hours you attempt prior to actual admission into your program of choice. Depending on the number of hours that you have attempted prior to admission into Nursing or a Health Science program, you may not be eligible for enough financial aid to complete the program after you have been admitted.

To make sure you understand this policy and that you plan ahead in order to use your financial benefits in a wise and timely manner, please consult with the financial aid office located in the Union Station Building Room U-138 on the Downtown Campus or in the McKeithan Center Room NA-100 on the North Campus.
### Cape Fear Community College
#### Estimated Expenses
##### Radiography Program
##### 2020

**First Semester (Fall)**

<table>
<thead>
<tr>
<th>Description</th>
<th>IN-STATE</th>
<th>OUT-OF-STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$1,374.00</td>
<td>$4,446.00</td>
</tr>
<tr>
<td>Uniforms</td>
<td>$200.00</td>
<td></td>
</tr>
<tr>
<td>Insurance</td>
<td>$15.00</td>
<td></td>
</tr>
<tr>
<td>Books</td>
<td>$500.00</td>
<td></td>
</tr>
<tr>
<td>Criminal Background, Drug Screen &amp; Immunization Tracker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td>CPR</td>
<td>$40.00</td>
<td></td>
</tr>
</tbody>
</table>

Total (IN-STATE) $2,371.00  
Total (OUT-OF-STATE) $5,443.00

**Second Semester (Spring)**

<table>
<thead>
<tr>
<th>Description</th>
<th>IN-STATE</th>
<th>OUT-OF-STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$1,374.00</td>
<td>$4,446.00</td>
</tr>
<tr>
<td>Books</td>
<td>$200.00</td>
<td></td>
</tr>
</tbody>
</table>

Total (IN-STATE) $1,574.00  
Total (OUT-OF-STATE) $4,646.00

**Third Semester (Summer)**

<table>
<thead>
<tr>
<th>Description</th>
<th>IN-STATE</th>
<th>OUT-OF-STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$979.00</td>
<td>$3,091.00</td>
</tr>
<tr>
<td>Books</td>
<td>$100.00</td>
<td></td>
</tr>
</tbody>
</table>

Total (IN-STATE) $1,079.00  
Total (OUT-OF-STATE) $2,614.00

**Fourth Semester (Fall)**

<table>
<thead>
<tr>
<th>Description</th>
<th>IN-STATE</th>
<th>OUT-OF-STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$1,374.00</td>
<td>$4,446.00</td>
</tr>
<tr>
<td>Books</td>
<td>$150.00</td>
<td></td>
</tr>
<tr>
<td>Insurance</td>
<td>$15.00</td>
<td></td>
</tr>
</tbody>
</table>

Total (IN-STATE) $1,539.00  
Total (OUT-OF-STATE) $4,611.00

**Fifth Semester (Spring)**

<table>
<thead>
<tr>
<th>Description</th>
<th>IN-STATE</th>
<th>OUT-OF-STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$1,137.00</td>
<td>$3,633.00</td>
</tr>
<tr>
<td>Books</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td>Cap &amp; Gown</td>
<td>$25.00</td>
<td></td>
</tr>
</tbody>
</table>

Total (IN-STATE) $1,262.00  
Total (OUT-OF-STATE) $3,758.00

**Total cost second year**

- (IN-STATE) $2,801.00
- (OUT-OF-STATE) $8,369.00

Estimated cost of program without travel expenses to clinical sites is

- IN-STATE................. $ 7,825.00
- OUT-OF-STATE............ $ 21,649.00

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 $200.00.
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.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT</td>
<td>MAT 110 or higher</td>
<td>3</td>
<td>Must be proficient in DMA 010 through DMA 050.</td>
</tr>
<tr>
<td>BIO 163</td>
<td>Basic Anatomy &amp; Physiology</td>
<td>5</td>
<td>Use this course for your minimum Biology requirement.</td>
</tr>
<tr>
<td></td>
<td>Can substitute BIO 168 &amp; BIO 169 for this course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 111</td>
<td>Writing &amp; Inquiry or Expository Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COM 110</td>
<td>Introduction to Communication</td>
<td>3</td>
<td>May substitute COM 120 or 231 for this course</td>
</tr>
<tr>
<td>PSY 150 or SOC 210</td>
<td>General Psychology or Intro to Sociology</td>
<td>3</td>
<td>Either course is accepted</td>
</tr>
<tr>
<td>Any</td>
<td>Humanities Elective</td>
<td>3</td>
<td>Suggested: PHI 215, PHI 240 or HUM 115</td>
</tr>
</tbody>
</table>

II. Other Courses – These courses are not required for graduation, but will add to your point count.

<table>
<thead>
<tr>
<th>Any</th>
<th>College Chemistry</th>
<th>See point count worksheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any</td>
<td>College Physics</td>
<td></td>
</tr>
<tr>
<td>CIS 110/111</td>
<td>Computer Literacy (No points given)</td>
<td>3/2</td>
</tr>
</tbody>
</table>
III. Major Courses – You will take these once you are officially accepted into the Radiography program and your 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 have 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).

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall of First Year:</td>
<td>RAD 110</td>
<td>Rad Intro &amp; Patient Care</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RAD 111</td>
<td>Rad Procedures I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>RAD 151</td>
<td>Rad Clinical Ed I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>RAD 182</td>
<td>Rad Clinical Elective</td>
<td>2</td>
</tr>
<tr>
<td>Spring of First Year:</td>
<td>RAD 112</td>
<td>Rad Procedures II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>RAD 121</td>
<td>Image Production I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RAD 161</td>
<td>Rad Clinical Ed II</td>
<td>5</td>
</tr>
<tr>
<td>Summer of First Year:</td>
<td>RAD 122</td>
<td>Image Production II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>RAD 141</td>
<td>Radiation Safety</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>RAD 171</td>
<td>Rad Clinical Ed III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RAD 281</td>
<td>Rad Clinical Elective</td>
<td>1</td>
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<tr>
<td>Fall of Second Year:</td>
<td>RAD 211</td>
<td>Rad Procedures III</td>
<td>3</td>
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<tr>
<td></td>
<td>RAD 231</td>
<td>Image Production III</td>
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<td>RAD 251</td>
<td>Rad Clinical Ed IV</td>
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<tr>
<td>Spring of Second Year:</td>
<td>RAD 113</td>
<td>Rad Lab Elective</td>
<td>1</td>
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<tr>
<td></td>
<td>RAD 261</td>
<td>Rad Clinical Ed V</td>
<td>7</td>
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<tr>
<td></td>
<td>RAD 271</td>
<td>Radiography Capstone</td>
<td>3</td>
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</tbody>
</table>

Total Credits = 74

Computer competency must be met for graduation.
MINIMUM REQUIREMENTS (to include but not limited to; see admissions requirements):
Overall College GPA of 2.5 (if applicable) mandatory
Biology Course (within the last 5 years) mandatory

SECTION A: NON-COURSEWORK
Attended Program Information Session (10 pts) ___
(Must attend during current application period to be awarded points.)
GPA of 3.5 or higher at CFCC (min 12 cr.) (10 pts) ___

SECTION B: OTHER COURSEWORK
High School Physics Course + (5 pts) ___
High School Chemistry Course ++ (5 pts) ___
Current HS Senior with an unweighted 3.5 GPA or better (55 pts) ___
(Will not get points for both HS GPA and college courses)
College Physics Course ("C" or better) + (10 pts) ___
College Chemistry Course ("C" or better) ++ (15 pts) ___
+ 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 (30 pts) ___
B (20 pts) ___
C (10 pts) ___
OR
*BIO 168 Anatomy and Physiology I (4 sem hrs) A (20 pts) ___
B (15pts) ___
C (10pts) ___
AND
*BIO 169 Anatomy and Physiology II (4 sem hrs) A (20 pts) ___
B (15pts) ___
C (10pts) ___
* Only the first attempt with a letter grade of “C” or better will be considered for the point count.
MAT 110 Math Measurement & Literacy (3 sem hrs) A (5 pts) ___
OR higher B (3 pts) ___
C (1 pt) ___
Student must be proficient in DMA 010 through DMA 050.
ENG 111 Writing & Inquiry (3 sem hrs) A (5 pts) ___
B (3 pts) ___
C (1 pt) ___
COM 110 Intro to Communication (3 sem hrs) A (5 pts) ___
OR B (3 pts) ___
COM 120 Intro to Interpersonal Com (3 sem hrs) C (1 pt) ___
OR COM 231 Public Speaking (3 sem hrs) ___
PSY 150 General Psychology (3 sem hrs) A (5 pts) ___
OR B (3 pts) ___
SOC 210 Introduction to Sociology (3 sem hrs) C (1 pt) ___
Humans/Fine Arts Elective A (5 pts) ___
(suggested PHI 215, PHI 230 or HUM 115) B (3 pts) ___
C (1 pt) ___

Note: Need CIS 110 or CIS 111 or computer competency exam offered in the Learning Lab (see Section C on page 5 for more information).

Total Score (Maximum total for sections A, B & C is 110)

SECTION D: PSB ADMISSIONS TEST
Percentile Score
Part I - Academic Aptitude Total (Includes Verbal, Arithmetic & Non-Verbal)
Part II - Spelling
Part III - Reading Comprehension
Part IV - Natural Science
Part V - Vocational Adjustment Index
Average Composite %
(Minimum of 60%)
Please refer to the cut-off scores as outlined in the information packet.
SUMMATION OF POINT TOTALS
Sections A, B & C ________
Section D ________
Grand Total ________
If students have the same point count total, the date and time that the “Intent to Apply” was filed will be considered

This point count sheet is reviewed each year and is subject to change.
Revised 9/2019