FALL 2024

MEDICAL LABORATORY TECHNOLOGY AAS

Application Period

Jan 25, 2024 - May 22, 2024
or until filled
Revised 2/7/24

HEALTH & HUMAN SERVICES
CFCC

Minimum requirements are subject to change each academic year.

MEDICAL LABORATORY TECHNOLOGY

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

Application Period: January 25, 2024 – May 22, 2024 (or until filled)
Early Admission Notification: March 1, 2024

(Revised 2/7/24)

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.

Medical Laboratory Technicians (MLT) are vital to the healthcare team as they are often the first to produce patient results. MLTs use sophisticated biomedical instrumentation, as well as manual procedures, to perform testing and provide results that are essential in the diagnosis, treatment, and prevention of disease.

The Medical Laboratory Technician has diverse and multi-level functions in the areas of collecting, processing, and analyzing biological specimens and other substances, problem solving and troubleshooting techniques, correlation of clinical procedures and results, and principles and practices of quality assessment for all major areas in the laboratory. The areas within the contemporary clinical laboratory include: clinical chemistry, hematology, immunology, immunohematology, microbiology, and molecular biology.

Coursework emphasizes the mathematical and scientific concepts behind specimen collection and laboratory testing, quality assurance and the reporting, recording and interpreting findings involving tissues, blood and body fluids.

Graduates may find employment in hospitals, clinics, physicians' offices, medical laboratories, and government agencies. Graduates from the Cape Fear Community College Medical Laboratory Technology program may be eligible to sit for the American Society for Clinical Pathology Board of Certification Exam (ASCP-BOC).

A career as a Medical Laboratory Technician continues to grow in the job market. The average national salary for a Clinical Laboratory Technologist or Technician is $26.05/hr. Salary will vary by practice setting and location. More information can be found here: https://www.bls.gov/ooh/healthcare/clinical-laboratory-technologists-and-technicians.htm

Mission
The mission of the Cape Fear Community College Medical Laboratory Technology program is to educate and prepare students to pursue a career as a registered Medical Laboratory Technician who can practice the profession ethically and with utmost technical competence.

Program Goals and Student Learning Outcomes

The Medical Laboratory Technology program's goals and outcomes are grounded in three specific aspects of Clinical Laboratory Science and assessed in multiple areas of the program: preanalytical processes, analytical processes, and postanalytical processes.

- Preanalytical Outcomes: Graduates of the Medical Laboratory Technology program will be able to successfully demonstrate all aspects of specimen integrity from the time the physician places the order to the time the specimen is received in the laboratory.
- Analytical Outcomes: Graduates of the Medical Laboratory Technology program will be able to successfully demonstrate all processes associated with specimen testing once received in the clinical laboratory.
- Postanalytical: Graduates of the Medical Laboratory Technology program will be able to successfully demonstrate all processes involved in result reporting and delivery in compliance with program requirements.

As the program is currently in the process of seeking accreditation statues with the National Accreditation Agency for Clinical Laboratory Sciences (NAACLS), objectives and outcome measures will include the following:
- Graduation rates: 70% of students who begin the final half of the program will go on to successfully graduate from the program
- Certification pass rates: 75% of students will successfully complete the ASCP-BOC examination within the first year of graduation
- Placement rates: at least 70% of students responding to graduate survey will report finding employment in the field, or a closely related field, or continue their education within one year of graduation.

A copy of the appropriate accreditation standards and/or NAACLS policy and procedures for submission of complaints directly related to the standards may be obtained by contacting NACCLS in writing at: NAACLS, 5600 N. River Rd, Suite 720, Rosemont, IL 60018-5119. Other inquiries can be directed via phone at 773-714-8880.

Clinical Affiliations
- Cape Fear Valley Bladen Healthcare (Elizabethtown, NC)
- Columbus Regional Healthcare System (Whiteville, NC)
- Conway Medical Center (Conway, SC)
- Dosher Memorial Hospital (Southport, NC)
- Novant Health (Wilmington, NC) & Pender Memorial Hospital (Burgaw, NC)
- Scotland Health Care System (Laurinburg, NC)
- UNC Health Southeastern (Lumberton, NC)
- Vidant Health (Greenville, NC)

APPLICATION PROCESS

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

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

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

The Medical Laboratory Technology 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/medical-laboratory-technology/

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

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

Students Must:

1. Complete 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. 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 home school transcript with graduation date. All students selected to the program must have graduated from high school at the start of the program or have earned the equivalent credentials.

3. Request official transcripts from **all** colleges and/or universities attended (if applicable; must come from institution where classes where 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**

     o New: High School Career and College Ready Graduate (CCRG) Enhanced English IV score of 80 or higher on Tiers I and II AND
     o High School CCRG Math score of 80 or higher on Tiers I and II OR Math 3 End of Course (EOC) score of 4 or higher **OR**

   - Completion of **English Composition I or higher** (or its equivalent; i.e., ENG-111 in the North Carolina Community College common course library) **and 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 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* 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 ENG-111 and MAT-143 **without pre- or co-requisites**, regardless of completion date. Please contact the CFCC Health Science Enrollment Center at *healthsciences@cfcc.edu* if you have questions about the use of test scores to meet Math and English requirements.

2. **Students must have an overall <u>GPA of 2.0 or higher in all post-secondary coursework completed at Cape Fear Community College</u>** (if the applicant has never attended CFCC this requirement may be disregarded). After an "Intent to Apply" has been filed, the student must consistently maintain a minimum GPA of 2.0 for each semester enrolled at CFCC to enter the program in the fall). If the student's CFCC cumulative GPA is below 2.0 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. **Complete Biology with a grade of "C" or Higher.**
All students who wish to apply for the Medical Laboratory Technology Program must have completed a high school or college level Biology class (with lab) and achieved a grade of "C" or higher. Applicants who have taken a High School Equivalency exam may also meet this requirement if they achieved a standard score on the Science Exam on the following High School Equivalency tests: a 145 on the 2014-present GED, or an 8 on the 2014-present HiSet. **Interested applicants who need to meet the Biology requirement should complete BIO-163*** (BIO-106, 110, or 111 will also meet minimum requirements to file an "Intent to Apply" but do not award points).

   *If a student completes **BIO-163** (or BIO-168 and BIO 169, Anatomy and Physiology I and II) with a **"C"** or better, the course(s) will meet the program eligibility and graduation requirement if taken prior to the application deadline.

   NOTE: Only credit for BIO-163 or BIO-168 and BIO-169 with a grade of "C" or better will be awarded points on the point count.

4. **Completion of the TEAS Test (by ATI; versions 6 and 7 only)**

5. **File "Intent to Apply"**
An "Intent to Apply" for the Medical Laboratory Technology program may be completed **ONLINE** during the application period of January 25, 2024 – May 22, 2024 or until filled (Early Admission notification: March 1, 2024). Students must visit the programs' website (https://cfcc.edu/medical-laboratory-technology/) study the instructions, and click on the "File My Intent" button 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 e-mail addressing the missing items. Once eligible, they may re-file their "Intent" as long as it is prior to the end of the application period. **Note:** If technical difficulties are encountered, students may contact the CFCC Helpdesk at 910-362-4357. All interested applicants must file the "Intent to Apply" prior to the end of the application period.

   Note: students requesting to transfer from another Medical Laboratory Technology program may contact the Health Science Enrollment Center at 910-362-7139 or healthsciences@cfcc.edu for details.

"Intent to Apply" Checklist for the Medical Laboratory Technology Program:

- Acceptance to CFCC (via general college admissions) or active application status
- Official high school transcript on file at CFCC
- Official college/university transcripts (if applicable) on file at CFCC
- Meet English and Math eligibility (see page 4)
- Overall GPA at CFCC of 2.0 or higher (if the applicant has never attended CFCC this requirement may be disregarded. After an "Intent to Apply" has been filed, the student must consistently maintain a minimum GPA of 2.0 for each semester enrolled at CFCC to enter the program in the fall)
- Completion of a high school or college level biology course with a grade of "C" or better
- Completion of the TEAS exam (acceptable versions: 6 and 7) **PRIOR** to filing an "Intent to Apply"

Note I: Having relevant medical experience is not part of meeting minimum requirements to apply; it does count for points (see page 8 and Point Count Sheet for details).

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

Note III: Having completed all general education courses that are part of the Medical Laboratory Technology program is not a requirement in order to complete the selective admissions application to MLT.

TESTING INFORMATION

Students who wish to be considered for admission to CFCC's MLT program must first ensure they meet the minimum application requirements. They should schedule and complete the TEAS exam (by ATI) prior to filing an "Intent to Apply". This is done independently from the CFCC MLT application process. There is no set limit to the number of times an applicant may take the TEAS test, however, if using CFCC as a testing site, a student may test only two times per academic year; additional tests may be taken offsite. Those who have taken the TEAS test in previous years should be aware that tests are only valid for five years from the time they file an "Intent to Apply". Once the TEAS test is taken the applicant should request that an official score report be made available to CFCC. If the TEAS test was taken at CFCC, the staff of the HSEC will have access to the results. Applicants who tested should include the date the test was taken, as well as the TEAS student number (located on the top left of the official 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 score potential in all four areas.** In addition, we will not create a new score using the highest points in each test category among several tests (i.e., we do not "superscore").

THE "INTENT TO APPLY", AS WELL AS ALL TESTING, MUST BE COMPLETED ON OR BEFORE MAY 22, 2024 and must be on file in the Health Science Enrollment Center at CFCC in order to be considered for the Medical Laboratory Technology program. "Intents to Apply" and results from tests completed after May 22, 2024 will not be accepted unless the application period is extended.

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

Testing Locations: All available on campus test sessions for the MLT 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 MLT program may use this option but must be aware of the testing/"Intent" deadline of **May 22, 2024.**

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

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

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

After the Test: Students will have access to test results immediately after they complete the TEAS exam. **In order to be considered for the MLT program, there is not a minimum score requirement on the TEAS in each of the four areas of the test: Reading, Math, Science, and English and Language Usage.** Therefore, students who have submitted their official test scores to the HSEC by the testing deadline, and have met all other program minimum requirements, may file an "Intent to Apply" during the application period. 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 student from enrolling in a Health Science program, but may prohibit the student from receiving a professional license. If students have any questions about eligibility for professional licensure, please contact the professional organization's website.

MEDICAL LABORATORY TECHNOLOGY SELECTION PROCESS

The Point System was implemented as an objective means for evaluating MLT applicants. ALL documents (including official, up to date transcripts) needed for points must be on file at CFCC prior to the application deadline (May 22, 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.

Medical Laboratory Technology applicants will be ranked upon points earned, and the students with the highest number of points will be selected. If two or more students have the identical point count total, the date and time that the "Intent to Apply" form was successfully submitted (i.e., eligibility criteria were met) will be the determining factor.

POINT SYSTEM

See "Point Count worksheet" for point values.

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

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

Phlebotomy
To gain points, proof of current Phlebotomy Certification must be on file at the Health Science Enrollment Center prior to the application deadline. **Successful completion of PBT courses will not satisfy this requirement; certification must be on file.**

High School GPA
Students must currently be a senior in high school and have an unweighted GPA of 3.5 or higher. If they graduated prior to the end of the application period, points will not be awarded.

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

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

Note: 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).

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 program evaluation (course substitutions may be an option). Recommended: ART-111, HUM-115, MUS-110, MUS-112, PHI-240.

Section C: TEAS Scores (to be taken prior to filing "Intent to Apply")

Points are awarded for scores on the TEAS exam in the four following areas: Math, Science, Reading, and English and Language Usage for a maximum of 400 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, they may use 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 access. **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 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).

Calculation of Total Points

The applicant's total points are calculated using points for Medical Assisting or Phlebotomy Certification, HS GPA, academics, and the scores in each area of the TEAS test. Qualified applicants will be invited to review their point count electronically **after the application deadline and after all point counts are completed.** A copy of the point count will be emailed in June 2024 (in March if accepted via Early Admission), 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.***

SPECIAL NOTES:
BIO-163 or BIO-168 and BIO-169 must have been taken PRIOR to the application deadline of the Medical Laboratory Technology program to receive points. Only the first attempt with a letter grade of **"C"** or better will be considered for the point count (for 2024 applicants: only valid for points and towards graduation if taken fall 2019 or after).

Students who register for Medical Laboratory Technology courses after acceptance, and then exit the program before classes begin, or during the first semester will be given the opportunity to apply only one additional time. Students who accept a seat and are unsuccessful twice may only apply for admission a third time with approval of the MLT Program Director.

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

NOTIFICATION PROCEDURE

Fourteen (14) new students will be admitted to the Medical Laboratory Technology program for the fall 2024 semester. Students whose status is "alternate" are admitted to the program only when an originally accepted student declines an offer of admission, or once accepted, becomes disqualified (refer to disqualifying factors).

Medical Laboratory Technology applicants will be conditionally accepted into the program pending submission and review of a favorable health form, negative drug screening, criminal background check, and CPR certification. The required forms will be provided by Cape Fear Community College.

The 14 selected students will be notified when to complete the following information:

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

2. **Criminal Background Check and Drug Screening**
   All Medical Laboratory Technology clinical sites require both criminal background checks and drug screenings prior to allowing students to participate in a clinical rotation (associated fees are the responsibility of the student). The drug screening will include a twelve (12) panel urine drug screen (methadone will be included). Positive test results on the drug screening, and/or evidence of specimen tampering, will disqualify a student from participation in clinical rotations and will be grounds for immediate program dismissal. Furthermore, criminal activity reported on the background checks may disqualify a student from participating in clinical rotations. The

criminal background check and drug screening are mandatory, and such refusal to complete these forms will be cause for immediate program dismissal. Information and instructions on obtaining and submitting all necessary forms will be given during the Medical Laboratory Technology orientation. For more detailed policy information, students should see the "Drug and Alcohol Policy" in the 2023-2024 CFCC Student Handbook.

3. **CPR**

Students must submit documentation of current CPR* certification from the American Heart Association. The certification must be the Basic Life Support (BLS) for Healthcare Providers course, which includes Rescuer CPR and AED usage for adults, children and infants. The BLS certification must include skills practice and skills testing and require that students complete and pass a written examination. Details will be provided at program orientation. ***Please note that online CPR certification courses will not be accepted!**

4. **Transportation**

Students must provide their own reliable transportation to clinical rotation sites. Applicants should be aware that travel in areas outside of New Hanover and Pender Counties may be required for clinical placement (see listing of clinical affiliations on page 2).

PROGRESSION POLICY

Students admitted to the Medical Laboratory Technology program must achieve or have achieved a **"C"** or higher in each course in the curriculum in order to progress semester by semester.

Grading Policy

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

PHYSICAL AND COGNITIVE EXPECTATIONS OF A MEDICAL LABORATORY TECHNOLOGY STUDENT

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

If a student believes that he or she cannot meet Medical Laboratory Technology program requirements without accommodations, the Student Accessibility Services office will determine on an individual basis, whether or not the necessary accommodations or modifications can be reasonably made. Further information regarding the physical and cognitive expectations of a student Medical Laboratory

Technician and the Technical Standards may be found in the student policy manual for Medical Laboratory Technology.

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

MEDICAL LABORATORY TECHNOLOGY
REQUIRED TECHNICAL STANDARDS

CRITERION	STANDARD	EXAMPLES OF NECESSARY ACTIVITIES (Not all Inclusive)
Critical Thinking	Critical Thinking ability sufficient for clinical judgment & time management.	Identify cause and effect relationship in clinical situations. Systematically troubleshoot assay performance and situations related to sample collection and result reporting. Correlate laboratory results to various disease states based upon interpretation of multiple assays and analyte values. Assimilate knowledge from lecture, laboratory and clinical arenas. Assess and respond to patient medical emergencies in a timely manner. Complete lab and clinical competencies and sample testing within a set time schedule. Utilize basic mathematical skills.
Interpersonal	Interpersonal abilities to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	Establish a professional rapport with patients, families, and colleagues.
Communication	Communication abilities sufficient for interaction with others in verbal and written form.	Explain treatment procedures. Document lab results. Reflect on individual and collective performance of all work related to performance of laboratory testing.
Mobility	Physical abilities sufficient to move from room to room and maneuver in small places.	Stand or walk for extensive periods of time. Lift lab equipment/reagents weighing up to 50 pounds. Administer CPR and BLS procedures. Move around patient's rooms, work spaces, and other small areas.
Motor Skills	Gross and fine motor abilities sufficient to provide safe and effective patient/client care and operate equipment.	Calibrate, and use equipment. Use ancillary aids chairside – mannequins, small equipment, etc.
Hearing	Auditory ability sufficient to monitor and assess health needs.	Hear/monitor equipment alarms, emergency signals, auscultatory sounds, cries for help, and patient reactions during procedures within normal hearing range.

Visual	Normal or corrected visual ability sufficient for patient/client observation, assessment, and/or treatment. Ability to discriminate between subtle changes in density (black to gray) of a color in low light.	Observes patient responses such as skin color and facial expression. Observe secretions, colors, and color changes during performance of procedures. Observe proper operation of equipment. Read computer screen, procedure manuals, patient information, lab requests. Differentiate cells, organisms, etc. under a microscope.
Olfactory	Sense of smell sufficient for maintaining environmental safety and patient/client needs.	Distinguish smells which are contributory to assessing and/or those maintaining the patient's health status or environmentally safety.
Tactile	Tactile ability sufficient for physical assessment.	Perform palpation techniques, functions of physical examination and/or those related to therapeutic intervention.

Students who feel they need accommodations should contact the staff of the Student Accessibility Services office in the Union Station Building (Room U-218) on the Downtown Campus or call 910-362-7800.

DISQUALIFYING FACTORS

Students may be denied admission to or continuation in the Medical Laboratory Technology program for any of the following reasons:

A. Physical or emotional health, which indicates impairment in ability to provide safe care to the public.
B. Conduct not in accordance with the standards of a Certified Medical Laboratory Technician:
   1. Has given false information or has withheld material information.
   2. Has been convicted of or pleaded guilty or *nolo contendere* to any crime which indicated the individual is unfit or incompetent to practice, or the individual has deceived or defrauded the public.
   3. Has used any drug to a degree that interferes with his or her fitness to practice as a Medical Laboratory Technician
   4. Has engaged in conduct that endangers the public health.

Accepted applicants will be required to take a **drug screen and submit a criminal background check** prior to starting the program. The college follows agency protocol regarding drug screening and criminal background checks. Without access to the clinical facilities, students will be unable to satisfactorily complete the Medical Laboratory Technology courses.

CERTIFICATION

Upon graduation of the Medical Laboratory Technology program, students will be eligible to sit for the ASCP certification exam.

RESOURCES/ASSISTANCE

If there are questions or concerns regarding the selective admissions process and other available resources, please contact a staff member of the Health Science Enrollment Center in Union Station Building (Room U-261) at the downtown campus; 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-Nursing 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 Nursing or 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 Financial Aid office located in the Union Station Building (Room U-138) on the Wilmington Campus or in the McKeithan Center (Room NA-100) on the North Campus.

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

CAPE FEAR COMMUNITY COLLEGE
TUITION & FEES

Payment 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.

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

3/4 Time: 9 Credit Hours

1/2 Time: 6 Credit Hours

Revised 7/2019

ESTIMATED EXPENSES
MEDICAL LABORATORY TECHNOLOGY

Summer Semester Prior to 1st Semester

CPR: $75.00*

Drug Screen, Criminal Background Check, & Immunization Tracker: $130.00*

Physical Exam and Required Immunizations: $100.00*

Total: $305.00*

1st Semester - Fall			4th Semester - Fall	
Uniforms	$300.00		Liability Insurance	$15.00
Shoes	$40.00*		Books	$155.00*
Liability Insurance	$15.00		Tuition/Fees – In-state	$1137.00
Books	$600.00*		Tuition/Fees – Out-of-state	$3633.00
Laptop Computer	$1000.00*		**Total In-State**	**$1307.00**
Tuition/Fees – In-state	$1374.00		**Total Out-of-state**	**$4616.00**
Tuition/Fees – Out-of-state	$4446.00			
Total In-State	**$3329.00**		**5th Semester - Spring**	
Total Out-of-state	**$6401.00**		Books	$150.00*
			National Certification Exam	$240.00*
			Graduation Fee	$25.00
2nd Semester - Spring			Graduation Cap and Gown	$50.00
Books	$155.00*		Tuition/Fees – In-state	$1137.00
Tuition/Fees – In-state	$1374.00		Tuition/Fees – Out-of-state	$3633.00
Tuition Fees – Out-of-state	$4446.00		**Total In-State**	**$1602.00**
Total In-State	**$1529.00**		**Total Out-of-state**	**$4098.00**
Total Out-of-state	**$4601.00**			
3rd Semester - Summer			**TOTAL PROGRAM COST**	
Books	$175.00*		**In-State**	**$8,842.00**
Tuition/Fees – In-state	$900.00		**Out-of-State**	**$21,898.00**
Tuition Fees – Out-of-state	$2820.00			
Total In-State	**$1075.00**			
Total Out-of-state	**$2995.00**			

*Costs may vary

Medical Laboratory Technology Curriculum

Fall Semester I

Course	Title	Class	Lab	Clinic	Contact	Credit
CHM 130*	General, Organic, and Biochemistry	3	0	0	3	3
CHM 130A*	General, Organic, and Biochemistry Lab	0	2	0	2	1
ENG 111*	Writing & Inquiry	3	0	0	3	3
MLT 110	Intro to MLT (includes Phlebotomy)	2	3	0	5	3
MLT 111	Urinalysis & Body Fluids	1	3	0	4	2
MLT 115	Laboratory Calculations	2	0	0	2	2
MLT 140	Intro to Microbiology	2	3	0	5	3
	Totals	13	11	0	24	17

Spring Semester I

Course	Title	Class	Lab	Clinic	Contact	Credit
BIO 163*	Basic Anat. & Physiology	4	2	0	6	5
MLT 120	Hematology/Hemostasis I	3	3	0	6	4
MLT 126	Immunology and Serology	1	2	0	3	2
MLT 130	Clinical Chemistry I	3	3	0	6	4
MLT 240	Special Clin Microbiology	2	3	0	5	3
	Totals	13	13	0	26	18

Summer Semester I

Course	Title	Class	Lab	Clinic	Contact	Credit
MAT 143*	Quantitative Literacy	2	2	0	4	3
MLT 220	Hematology/Hemostasis II	2	3	0	3	3
MLT 254	MLT Practicum I	0	0	12	12	4
	Totals	4	5	12	17	10

Fall Semester II

Course	Title	Class	Lab	Clinic	Contact	Credit
ENG 112 or 114*	Argument Based Research **OR** Professional Research & Reporting	3	0	0	3	3
MLT 127	Transfusion Medicine	2	3	0	5	3
MLT 266	MLT Practicum II	0	0	18	18	6
MLT 280	Special Practice Lab	0	3	0	3	1
	Totals	7	9	18	34	13

Spring Semester II

Course	Title	Class	Lab	Clinic	Contact	Credit
Social/Behavioral Science*		3	0	0	3	3
Humanities/Fine Arts*		3	0	0	3	3
MLT 217	Professional Issues	0	3	0	3	1
MLT 276	MLT Practicum III	0	0	18	18	6
	Totals	6	3	18	27	13
TOTAL GRADUATION HOURS	**71 SEMESTER CREDIT HOURS**					

*College Transfer Credit: Not all General Education courses will transfer to a four-year institution. The MLT program at Cape Fear Community College does not currently have articulation agreements with other colleges. MLT courses may transfer to a MLT program located at a NC Community College. Course transferability is dependent on the MLT program.

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

- Admission to CFCC (by Admissions) or active application status
- Official high school transcript on file at CFCC
- Official college/university transcripts (if applicable) on file at CFCC
- English and Math eligibility

- Overall GPA at CFCC of 2.0 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
- Completion of TEAS exam. Should submit highest scoring test with intent if testing multiple times

POINT COUNT WORKSHEET

SECTION A:

Current Medical Assisting Certification   (10pts) _____
OR
Current Phlebotomy Certification

Current high school senior with an   (30pts) _____
unweighted GPA of 3.5 or higher

SECTION B: 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 & Physiology (5 sem hrs)   A (15pts) _____
   B (10pts) _____
   C (5pts) _____

OR
*BIO 168 Anatomy & Physiology I (4 sem hrs)   A (7.5pts) _____
   B (5pts) _____
   C (2.5pts) _____

AND
*BIO 169 Anatomy & Physiology II   A (7.5pts) _____
   B (5pts) _____
   C (2.5pts) _____

*CHM 130 General, Organic, and Biochemistry   A (15pts) _____
(If taken at CFCC the lab must also be included: B (10pts) _____
CHM 130A)   C (5pts) _____

*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 143 Quantitative Literacy **OR** higher   A (15pts) _____
(3 sem hrs)   B (10pts) _____
   C (5pts) _____

PSY 150 General Psych (3 sem hrs)   A (15pts) _____
OR   B (10pts) _____
SOC 220 Social Problems (3 sem hrs)   C (5pts) _____

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

ENG 112 Argument Based Research (3 sem hrs)   A (15pts) _____
OR   B (10pts) _____
ENG 114 Prof. Research & Reporting (3 sem hrs)   C (5pts) _____

Humanities/Fine Arts Elective (3 sem hrs)   A (15pts) _____
(Recommended ART 111, HUM 115, MUS 110,   B (10pts) _____
MUS 112, **OR** PHI 240)   C (5pts) _____

Total Score _____
(Maximum total for sections A & B is 115)

SECTION C: TEAS (VERSIONS 6 AND 7)

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

     Score Total _____
     (Maximum total for section C is 400)

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 _____
     Grand Total _____

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

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

CAPE FEAR COMMUNITY COLLEGE