

# Medical Laboratory Technology Advisee Handbook 2021-2022



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### Welcome

On behalf of the faculty and staff of Fayetteville Technical Community College,we are excited that you are considering a career in Medical Laboratory Technology. This program is designed to prepare you to become a certified Medical Laboratory Technician (MLT), offering you the ability to work in various clinical laboratory settings in hospitals, clinics, doctors' offices, and other healthcare institutions. The course of study is a combination of both didactic and clinical education and is carefully planned with area clinical education sites (CES).

The completion of the 21-month program fulfills the educational requisite for confirmation of the Associate Degree in Applied Science and meets the requirements examination by the American Society for Clinical Pathology for certification as a Medical Laboratory Technician. To ensure that the program meets professional standards, the course of study is based on the National Accreditation Agency for Clinical Laboratory Science (NAACLS) curriculum standards and the American Society for Clinical Pathology MLT certification Body of Knowledge, as well as established curriculum by the North Carolina Community College System.

This program is currently undergoing initial NAACLS accreditation, which will be achieved during the initial cohort in 2022. General information about this program is contained within this Advisee Handbook, and we encourage you to read through each part as you make your decision on application to the program.

Thank you for your interest in the MLT Program at FTCC, and please know that you are welcome to reach out to the department at any time if you have questions or need additional information.

We wish you the best!

Sincerely, FTCC MLT Faculty

### **Advisors**

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# **Counseling Services**

Patricia Gorum, Health Programs Admission Coordinator

Health Technologies Center, 169-D

(910) 678-8457

The Admissions Coordinator initiates your health program process. Please contact Ms. Gorum to schedule an appointment.

# **College Services**

Admissions

Tony Rand Student Center

(910) 678-8473

**Bookstore** 

General Classroom Building

(910) 678-8342

Disability Support Services

Tony Rand Student Center

(910) 678-8479

Financial Aid

Tony Rand Student Center

(910) 678-8242

# The Medical Laboratory Technician

### Description

A Medical Laboratory Technician (MLT) is a healthcare professional who performs diagnostic testing on blood and body fluids as ordered by a patient's physician. Results obtained from these tests are used by physicians to diagnose and treat patients for most all illnesses and health related situations requiring a diagnostic biochemical and cellular snapshot of the patient's condition.

Medical Laboratory Technicians can be found working in many different healthcare institutions from a doctor's office to even a research facility. Most often the healthcare professionals are found working in hospital laboratories under the supervision of a medical director called a Pathologist. The MLT also works alongside Medical Laboratory Scientists (MLS) who are testing personnel who have completed a Baccalaureate degree in Clinical Laboratory Science. MLTs can transition from the 2-year educational tract to the 4-year tract with an Associate Degree in Applied Science.

### **Professional Organizations**

Various professional organizations support and promote both the MLT and the MLS healthcare professional, and graduates are encouraged to join at least one of these organizations as a means of both networking and professional development resources. A few of the main organizations are listed below:

- The American Society for Clinical Pathology (ASCP)
- The American Society for Clinical Laboratory Science (ASCLS)
- American Medical Technologists (AMT)
- American Association of Blood Banks (AABB)
- American Society for Microbiology (ASM)
- American Society for Clinical Chemistry (AACC)

Students will be introduced to several of these organizations during matriculation through the FTCC MLT Program.

### **MLT Certification**

Completion of this program makes the individual eligible for national certification that is recognized in all 50 US states and territories.

Professional certification is a very important part of establishing a reputable professional presence in healthcare. Laboratory professionals have historically gained certification through either ASCP or AMT. Within the state of North Carolina, there is no licensure for the clinical laboratory professional; however, most of the hospital laboratories, especially in densely

populated areas, hire only certified MLT and MLS laboratorian. And of the two certification agencies, many of the laboratories prefer ASCP. It is this reason that the FTCC MLT Program promotes graduate certification via ASCP only.

Upon graduation from this program, alumni will be eligible to sit for the MLT ASCP Board of Certification exam. The MLT Faculty recommends that all fifth semester students apply to the BOC by March of that semester and complete the examination attempt as soon as possible after graduation. Research has shown that completion of certification/licensure exams in healthcare as soon after graduation as possible results in a higher success pass rate and higher exam scores. (Laboratory Medicine, 2015)

### American Society for Clinical Pathology Board of Certification

In MLT 217, Professional Issues, all MLT students will create a free ASCP account and finalize preparations to pay for and submit an application for certification examination. Although FTCC cannot mandate that students register for the exam, creation of the free account, including full inclusion of student demographics, is required in order to successfully pass MLT 217.

Approval of application to take the MLT exam through ASCP generally takes up to 45 days. Once ASCP approves the graduate's application, the candidate has up to 90 days to schedule and complete the test. All testing is administered through a third-party testing facility, of which is located through the United States, including Hawaii, Alaska, and Puerto Rico. The exam is computer-based and consists of 100 adaptive multiple-choice questions taken over a 3-hour timeframe. Upon submission of the exam, the computer will return a Pass/Fall grade. Minimum pass score for the MLT exam is 400 points.

For more detailed information on MLT ASCP certification, access the organizations website via www.ascp.org

# FTCC MLT Program

### Mission, Vision, and Values

Aligning with the FTCC and Health Technologies purpose, the MLT Program has established mission and vision statements as well as a list of core values. The overall goal is to ground and situate all aspects of the MLT program in a philosophy and ultimate operational model of servant leadership focused on the patient experience. In doing this, all students of the MLT Program will be trained to continually consider how their diagnostic work impacts the outcome of the patient.

### **MLT Program Mission**

The mission of the FTCC MLT Program is to serve local, regional, national, and global communities by delivering exceptional patient-focused and learner-centered instruction to all people seeking a career in the field of Clinical Laboratory Science.

### **MLT Program Vision**

The vision of the FTCC MLT Program is to be the leader of patient-focused Medical Laboratory Technology education rooted in continual process and performance improvement.

### MLT Program Core Values

To ensure that the MLT Program achieves its mission and seeks to fulfill its vision, the following values will drive the Program's overall purpose, which is to graduate a highly qualified, job-ready Medical Laboratory Technician.

### Give me a 'STAT ORDER'

Our Value	What the value means to the MLT	How the MLT demonstrates it
S – Synergy	The collective power of the team is greater than the individual power of the one.	Working with ALL healthcare professionals for the benefit of the patient.
T – Trustworthy	Information provided for the treatment of all patients is reliable and accurate.	Doing all work to the best of ability, performing work with the highest degree of integrity, and self-reporting mistakes.
A – Attentive	Attention is given equally and equitably in all situations.	Taking the time to actively listen and respond with appropriate feedback and direction.
<b>T</b> – Timely	Continual awareness of the timeliness of diagnostic testing performance.	Monitoring performance in a purposeful and intentional manner to achieve a high degree of efficiency and accountability to timely patient care.
O –Opportunity	Everyone has the freedom to make their situation better for themselves and their community.	Supporting all laboratory and healthcare professionals as they seek to improve patient care through innovation in our field.
R – Respect	All people, places, and resources are viewed and utilized with the highest degree of care and consideration.	Committing to promotion and support of diversity in thought, perspective, culture, and life choices.
D – Diligence	A commitment to quality by striving to reach all goals regardless of difficulties, obstacles, or setbacks.	Demonstrating objectivity, reflection, and iteration when problems are encountered.
E – Empathy	The acknowledgement of the humanness we all share.	Showing nonjudgmental, supportive empathy and care to all people.
<b>R</b> – Resilience	A capability to ground oneself in an effort to reflect, repeat, and resolve a failure or a missed mark.	Realizing that continual improvement often requires multiple trials and errors before a desired outcome can be achieved.

All students in the MLT Program are expected to learn these core values and demonstrate them both on a daily basis and as a commitment to the profession.

## Physical Demands and Essential Functions

The physical demands a student must possess to participate in the classroom, lab and clinical sites include:

- · Position and move patients or equipment. This includes bending, stooping, kneeling, reaching and squatting while pushing and pulling loads in excess of 200 pounds while preventing injury to your patient and yourself.
- · Lifting 50 pounds independently or excess of 200 pounds with assistance while preventing injury to your patient or yourself.
- · Ability to be mobile for more than three to four-hour intervals while safely performing laboratory tasks.
- · Carrying with both hands more than ten feet at least 10 or more pounds.
- · Gross/fine motor coordination to execute movements required during classroom, lab or clinical activities which may include:
  - Palpation of the patient's body
  - Reaching and manipulating equipment in all required positions
  - Finger dexterity when using equipment
  - Maintain stable balance while performing exams on patients who have compromised balance.
  - Possess the endurance to perform a variety of exertional activities for up to 8 to 10 hours with occasional rest breaks.
- Possible exposure to infection from disease-bearing patients.
- Possible exposure to bloodborne pathogens and infectious agents.
- Possible exposure to carcinogenic substances.
- The capability to discern primary colors and differentiate between various degrees of granularity.
- · The potential for working with any and all blood and body fluid types including tissue, stool, semen, and sputum.

Students who have been medically restricted from specific tasks may not be allowed to attend clinicals based upon the physician documented restriction. An example of restriction would be

an individual's inability to work in the presence of chemicals or substances that could stimulate an asthma attack.

### Communication Skills

A student must demonstrate the ability to:

- 1. Speak, hear and observe others for the purpose of eliciting and perceiving information.
- 2. Provide information to others (faculty, classmates, supervisors, patients, caregivers) by telephone, in written format, email and/or in person.
- 3. Communicate effectively in oral and written English formats with classmates, patients, family members and all members of the health care team, during both emergencies and non-emergency situations. Modify his/her communication style to meet diverse communicative needs.
- 4. Modify his/her communication style to meet diverse communicative needs.
- 5. Ensure confidentiality of all patient related information in verbal or written formats.
- 6. Possess the ability to learn and abide by professional standards of practice.
- 7. Possess the ability to be prompt, arrive on time, and complete assignments on time.
- 8. Possess the ability to set priorities, be dependable, be organized and follow-through on responsibilities.
- 9. Self-direct one's own learning, with guidance, and be engaged in the classroom, lab and clinical environments.
- 10. Possess the ability to recognize/handle personal and professional frustrations, balance personal and professional obligations, work with others cooperatively, and respond appropriately to social cues.
- 11. Receive and send verbal communication in life threatening situations in a timely manner within the acceptable norms of clinical settings.

# **Program Outcomes and Published Metrics**

Program outcomes are grounded in three specific aspects of the profession of Clinical Laboratory Science: preanalytical processes, analytical processes, and postanalytical processes, all of which equally contribute to the reporting of accurate, reliable patient results.

### **Preanalytical Outcomes**

The MLT graduate will be able to:

- Discern diagnostic testing orders, detecting and resolving discrepancies and determining that correct supporting documentation has been provided by the provider.
- Perform accurate sample collection on blood and body fluids based upon diagnostic testing orders.
- Receive and process all blood and body fluid samples in accordance with requested testing.
- Perform all documentation with a high degree of accuracy and reliability.
- Maintain the quality of all testing platforms and environments associated with specific testing procedures, regulatory mandates, and laboratory directions.

### **Analytical Outcomes**

The MLT graduate will be able to:

- Perform diagnostic testing on blood and body fluids using various testing platforms and assay methodologies with a high degree of accuracy and precision.
- Systematically detect discrepancies in assay performance by correlating patients results to patient diagnosis and/or condition.
- Systematically and systemically troubleshoot testing errors and determine effective and efficient resolution pathways based upon timeliness of test performance.
- Prepare patient test results for final reporting using both manual and automated methods.

### Postanalytical Outcomes

The MLT graduate will be able to:

- Report patient test results that are free of errors.
- Correct misreported results, isolating the cause of the error.
- Reflect on process and performance, suggesting ways to make improvements to various laboratory processes and procedures.

### Comprehensive Student Outcomes

Regardless of test performance phase, the following outcomes will be applied to all facets of work conducted within the clinical laboratory:

- Participate in the development of interprofessional relationships within the laboratory and between other healthcare disciplines.
- Provide constructive ideas for process and performance improvement within the clinical laboratory.
- Contribute to the healthcare entity's commitment to fiscal responsibility and accountability to the patient.
- Create a positive patient experience through reflective practice and focused, aligned iteration.

Program outcomes will be continually assessed through semester courses and annually assessed by the following criteria, aligned with the benchmark expectation as set by NAACLS:

Outcome Metric	Benchmark	Defined
ASCP BOC Pass Rate (%)	75%	Percentage of students passing the MLT BOC exam on the first attempt.
Attrition Rate (%)	70%	Measured starting with entry into the fourth semester of the Program.
Graduation Placement Rate (%)	70%	Graduates obtain employment within one year of graduation in the field or closely related fields.

These outcome measures are reporting to NAACLS as a three-year average. Rates falling below the benchmark average will require a corrective action plan that ensures increase for future cohorts. Rates are published on the FTCC MLT college webpage.

### **Student Competencies**

Student competencies are divided into two separate categories, preclinical and clinical. In each of these categories, there are three different sections: cognitive (what you learn), psychomotor (task performance), and affective (inter and intrapersonal behavior and communication). Although each course will expand upon these general competencies, the following list governs what students should be able to know and do within each category to progress through the program toward graduation.

#### Preclinical

Prior to entry into the clinical practicum training phase of the MLT Program, the MLT student must demonstrate the following basic competencies:

#### Cognitive

- Explain the importance of specimen integrity and provide examples of acceptable and unacceptable blood and body fluids samples, including blood, urine, serous and synovial fluid, CSF, and stool.
- Critically think through less than optimal situations for the purposes of systematically troubleshooting 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.
- o Interpret assay calibration and recommend continued performance of testing.
- Interpret quality control data and determine if patient testing can proceed without failure.
- Explain the process of hematopoiesis and how it relates to various disease states and laboratory assays.
- Determine the correct environment and media for optimal cultivation of pathogenic bacteria based upon body site and collection method.
- Determine the type of microscope to be used based upon testing need and sample collection.
- Selection of compatible component type based upon patient ABO/Rh and antibody status and history.
- Response to reported transfusion reaction and massive transfusion protocol.
- Blood component management and blood donor selection.

#### Psychomotor

- Demonstrate acceptable sample collection for blood and body fluids, including blood, urine, serous and synovial fluid, CSF, and stool.
- Perform venipuncture and capillary collections on various patient types and with various techniques; this includes completing 25 successful venipunctures and 5 successful capillary sticks prior to clinicals (successful venipunctures are defined as a fully collected sample in the correct anticoagulant that can be used for testing).
- Performance, examination, and interpretation of various staining techniques used for diagnostic testing purposes.
- Basic, biochemical identification of bacterial and viral pathogens; students must successfully identify the following bacteria prior to clinicals: Staphylococcus aureus, MRSA, Streptococcus pyogenes, Streptococcus agalactiae, Streptococcus pneumoniae, Enterococcus spp., Neisseria meningitidis, Neisseria gonorrhoeae, Haemophilus influenzae, Escherichia coli, Escherichia coli O157:H7, Klebsiella pneumoniae, Proteus spp., Pseudomonas aeruginosa,

- Campylobacter jejuni, Salmonella spp., Shigella spp., Candida spp., Cryptococcus neoformans,
- Identification of mature and immature white blood cells, aligning the cellular line with various, potential disease states.
- Monitor and control the laboratory testing environment as directed by accrediting bodies.
- Performance of pretransfusion testing on all patient types.

#### Affective

- Delivery of customer service to all people using the process of AIDET and SBAR.
- Performance of customer service recovery using the processes of AIDET and SBAR.
- Metacognitive reflection on individual and collective performance of all work related to the performance of laboratory testing.
- Development of clear and appropriate pathways of communication between all individuals encountered but within the lab and outside of the lab.
- Confident and direct communication of needs to coworkers, supervisors, professional colleagues, providers, and patients.
- Selection of conflict resolution strategies that serve to resolve situations that could adversely impact patient care.
- Development of stress management strategies designed to promote MLT diligence, resilience, and career longevity.

To evaluate these student competencies prior to entry into the clinical phase of the program, all students will complete a Preclinical MLT Student Competency Checklist that will be started in MLT 110, Introduction to MLT. Students must successfully complete the entire competency checklist prior to their first day of MLT 252, Clinical Practicum I.

#### Clinical

Once students complete the preclinical phase of the MLT Program they will enter the clinical practicum phase at a local hospital clinical laboratory. Clinical competency checklists will be provided to each student at the beginning of their clinical practicum training, and students are expected to monitor and manage thorough completion of each checklist prior to the end of each associated clinical rotation. It is not the clinical site's responsibility to remind the student to complete this documentation. Periodically a member of the FTCC MLT Faculty will visit each site and ask to review the checklists for progression toward completion. Students must understand that they should reach out to the Clinical Coordinator or designee if assistance is needed within checklist completion.

Each student will receive a customized training checklist based upon specific instrumentation and test menus of each clinical training site. For example, one facility may use Ortho instrumentation and another Siemens, specific tasks associated with each type of analyzer may

be included within the respective student's checklist for associated clinical rotation. However, all student clinical competency checklists must include documentation of the following information:

- Phlebotomy Performance
  - Knowledge of supplies used for each procedure
  - Interaction with patients
  - Blood Borne Pathogen training
  - Falls Risk Training
  - Emergency/Rapid Response Training
  - Patient Identification
  - Venipuncture performance
  - Capillary stick performance
  - Heels stick performance
  - o Procedure adjustment based on patient type and demographic
  - Response to patient adverse reaction to phlebotomy procedure
  - Specimen labeling
  - Positive patient identification
  - Specimen transport
  - Specimen receipt and log-in
  - Sample processing and examination for acceptability

#### Hematology

- Sample collection procedures
- Specimen integrity assessment
- Manual cell counts
- Automation, including maintenance and Quality Control
- Staining procedures
- Manual differentials
- o Automated differentials, including histogram interpretation
- Body fluid counts and differentials
- Association of diseases states and testing interference
- Triggers and flags requiring Pathologist review and intervention
- Urinalysis performance manual and automated
- Coagulation testing and result interpretation
- Reporting requirements and error detection

#### Clinical Chemistry

- Sample collection procedures
- Specimen integrity assessment
- Sample processing as needed for associated testing
- Instrumentation maintenance and Quality Control performance
- Assay performance and result interpretation
- Result reporting and error detection
- Blood Banking

- Sample collection procedures
- Specimen integrity assessment
- Sample processing as needed for associated testing
- Manual tube testing performance for ABO/Rh, Antibody Screening and Identification, and compatibility testing
- Automated testing performance for ABO/Rh, Antibody Screening and Identification, and compatibility testing
- Fetomaternal testing
- Cord blood studies
- Transfusion reaction workups
- Advanced antibody identification
- Inventory and component management
- Thawing of plasma and cryoprecipitate
- Assignment of compatible components
- Instrumentation maintenance and Quality Control performance
- Assay performance and result interpretation
- Result reporting and error detection

#### Microbiology

- Sample collection procedures
- Specimen integrity assessment
- Sample processing as needed for associated testing
- Instrumentation maintenance and Quality Control performance
- Assay performance and result interpretation
- Result reporting and error detection
- Inventory control and management
- Setup of biological samples to correct media for the isolation of bacterial pathogens
- Performance of antimicrobial susceptibility testing in association with isolated pathogen
- o Serological testing of blood and body fluids for the detection of infectious disease

It should be noted that clinical practicum competency checklists will more extensively isolate and document specific procedures to be performed for associated tasks and testing platforms. All student competency checklists should display proficient student performance during the preanalytical, analytical and postanalytical phases of testing.

### **AAS Curriculum**

The Associate Degree in Applied Science is a 5-semester degree program that lasts 21-months. Semesters 1 through 3 are spent in didactic coursework, specifically in preparation for practical application at the assigned clinical site. Semesters 4 and 5 will primarily be comprised of student clinical practicum training.

The program is 75 semester credit hours. Refer to the program webpage for Course Descriptions and the outlined Program of Study.

# **MLT Program Specific Information**

### Location

All nonclinical MLT courses and labs are conducted at the FTCC Spring Lake campus, located at 171 Laketree Blvd, Spring Lake, NC 28390. College policies, procedures, and expectations are maintained in the same manner at all FTCC campuses.

If needed, the MLT Faculty and the College reserve the right to move classes and labs to the main college campus located at 2201 Hull Rd., Fayetteville, NC 28303. In the event this decision is made, sufficient notice will be provided to each student.

Clinical practicum courses are taught by certified laboratory personnel employed at various healthcare organizations and hospitals in the Sandhills and Cumberland County area.

### Academic

The MLT Program follows all academic policies of the College and of the Health Technologies Division. This includes grading, academic probation policies, and registration and withdrawal procedures. Creation of MLT curriculum is guided by the Program's accrediting agency (NAACLS), and standards may be found at www.naacls.org.

### Application to Program

All students intending to seek enrollment in the MLT Program must apply through the Health Technologies Division application process. The MLT program has a competitive admission process and will fairly and in a standardized manner, accept students based on academic performance and experience in healthcare.

For more information on the program application please refer to the following website: https://www.faytechcc.edu/academics/health-programs/

### Acceptance and Entry

FTCC students are accepted into the MLT program via a competitive admissions format. Each new cohort accepts up to 20 students in didactic courses and will attempt to place all students at clinical practicum sites starting in semester 4.

Students are not required to take a placement test to be accepted into the MLT Program.

Prerequisites to student entry are one high school level Biology course and placement in MAT 143.

There is no Algebra or Chemistry prerequisites. All required Math and Chemistry courses are part of the MLT curriculum.

#### Orientation

All students accepted into the FTCC MLT Program will be required to complete division and department orientation sessions as assigned by the MLT Program Chair. The MLT orientation process will take place in two stages: online and on campus. All students will be required to complete an online orientation prior to attending the on-campus orientation located at the Spring Lake campus. Participation in orientation is a mandatory requirement; failure to complete both stages of orientation will result in a student voluntary withdrawal from the MLT Program.

### Phlebotomy

All MLT students will be required to perform phlebotomy and venipuncture procedures. There are no exceptions to this requirement. Phlebotomy training will begin in the first semester with instruction and practice during MLT 110. Student competency will be documented and established prior to the end of Semester 1. Throughout the remainder of the program, students will be required to collect samples from each other for use in the on-campus labs.

### MLT Course Sequence

The FTCC MLT Program is designed to meet NAACLS and North Carolina Community College academic standards to award the degree of an Associate in Applied Science. To achieve this, the program is 5 full time, 16-week semesters in length.

General Education courses may be taken in any sequence and at any time; however, Major courses (MLT courses) must be taken in the following sequence, without deviation:

- Semester 1
  - MLT 110 Introduction to Medical Laboratory Technology
  - MLT 118 Medical Laboratory Chemistry
  - MLT 140 Introduction to Microbiology
- Semester 2
  - MLT 120 Hematology/Hemostasis I
  - MLT126 Immunology and Serology
  - MLT 130 Clinical Chemistry I
  - MLT 240 Special Clinical Microbiology

- Semester 3
  - MLT 220 Hematology/Hemostasis II
  - MLT 230 Clinical Chemistry II
  - MLT 127 Transfusion Medicine
  - o MLT 111 Urinalysis and Body Fluids
  - o MLT 280 Special Practice Lab
- Semester 4
  - MLT 252 Clinical Practicum I
  - MLT 267 Clinical Practicum II
- Semester 5
  - MLT 277 Clinical Practicum III
  - MLT 217 Professional Issues

### **Academic Progression**

In order to progress through the MLT program, students must receive a numerical grade of B or higher in each MLT course. This is established to align with proficiency test scoring all accredited laboratories must achieve in order to prove acceptable performance. If a student scores less than a numerical grade of 80 on any MLT course, the student will be disenrolled from the program. Courses are designed in a manner to continually provide students quality feedback on their performance so they can be successful in all coursework and clinical practicums.

### **Grading and Practical Assessment**

All MLT courses are graded on a 10-point scale. This includes all clinical practicum courses.

	Assigned Letter Grade	Numerical Average
	Α	90.0-100
Minimum Pass Score	В	80.0-89.9
	С	70.0-79.9
	D	60.0-69.9
	F	<60.0

All students must score at least a numerical grade of 80.0 to progress in the MLT Program. This is a requirement of the Health Technologies Division and aligns with best practice in the clinical laboratory with regard to assessment of testing proficiency by third parties.

There is no exception to this rule.

### Advising

All MLT students will be assigned a faculty member in the MLT Program at the beginning of their first semester enrolled within the program. Advisors will be readily available throughout each semester, and students are highly encouraged to make frequent contact for guidance and support.

### **Tuition Fees and Program Expenses**

The following is a breakdown of the financial cost of attending the MLT Program. For further information about paying for college, please visit the College's Financial Aid website <a href="https://www.faytechcc.edu/financial-aid/">https://www.faytechcc.edu/financial-aid/</a>.

#### **FTCC Tuition and Student Fees**

	In-State Students	Out-of-State Students
Tuition	\$76.00 per credit hour	\$268.00 per credit hour
	\$5,700.00 total	\$20,100.00 total
Semester Fees (each semester)	\$25.00 student support fee*	\$25.00 student support fee*
	\$16.00 technology fee**	\$16.00 technology fee**
	\$15.00 CAPS fee***	\$15.00 CAPS fee***

#### **Program Related Fees**

Background Check	\$40.00 one-time fee	\$40.00 one-time fee
Drug screen	\$80.00 one-time fee	\$80.00 one-time fee
eVerify	\$20.00 one-time fee	\$20.00 one-time fee
Student Physical	\$50-200.00 varies	\$50-200.00 varies
Immunizations/Titers	\$200-600.00 varies	\$200-600.00 varies
Lab Fee	\$40.00 semesters 1-3	\$40.00 semesters 1-3
Textbooks	\$400-800.00 entire program	\$400-800.00 entire program
Uniforms	\$100.00 varies	\$100.00 varies

#### **Graduation and Postgraduation Costs**

Graduation Application	\$25.00 (includes regalia)	\$25.00 (includes regalia)
ASCP BOC Certification	\$240.00	\$240.00

Total Cost of Attendance \$7513.00 (estimate) \$21,913.00 (estimate)

<sup>\*</sup>Student support fees include the cost of student accident insurance, student government and other student-related activities.

<sup>\*\*</sup>Technology fees include the cost of software, hardware, and technical support.

<sup>\*\*\*</sup>CAPS (Campus-Access-Parking-Security) fees support the college's parking facilities, campus security, and enforcement.

### References

- ASCP Board of Certification Research and Development Committee, et al. "Impact of time lapse on ASCP board of certification medical laboratory scientist (MLS) and medical laboratory technician (MLT) examination scores." *Laboratory Medicine* 46.3 (2015): e53-e58.
- "Medical Laboratory Technician Examination Content Guideline." Edited by American Society for Clinical Pathology, *MLT Exam Content Guideline*, 2020,

  www.ascp.org/content/docs/default-source/boc-pdfs/boc-us-guidelines/mlt\_imlt\_content\_guideline.pdf?sfvrsn=16.
- "NAACLS Standards for Accredited and Approved Programs." Edited by National Accrediting Agency for Clinical Laboratory Sciences, NAACLS Standards for Accredited and Approved Programs, 2020,

  www.naacls.org/NAACLS/media/Documents/2012Standards.pdf.
- "NAACLS Standards Compliance Guide." Edited by National Accrediting Agency for Clinical Laboratory Sciences, *NAACLS Standard Compliance Guide*, 2020, <a href="https://www.naacls.org/docs/StandardsComplianceGuide.pdf">www.naacls.org/docs/StandardsComplianceGuide.pdf</a>.
- "NAACLS Guide to Accreditation and Approval." Edited by National Accrediting Agency for Clinical Laboratory Sciences. *NAACLS Guide to Accreditation and Approval*, 2020, <a href="www.naacls.org/getattachment/b58c2104-4020-4c22-b597-0c8e44cec867/NAACLS-Guide-to-Accreditation-and-Approval-Edited.aspx">www.naacls.org/getattachment/b58c2104-4020-4c22-b597-0c8e44cec867/NAACLS-Guide-to-Accreditation-and-Approval-Edited.aspx</a>.