



Medical Laboratory Technician (MLT)



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Associate in Applied Science Degree (5 semesters)(MLT) Short-Term Certificate (2 semesters)(MLA)

At a Glance

Rapid job growth and excellent job opportunities are expected. Most jobs will continue to be in hospitals, but employment will grow in other settings, such as physician group laboratories and reference labs. Employment of medical laboratory workers is expected to grow 22 percent between 2012 and 2022, faster than the average for all occupations. The volume of laboratory tests continues to increase with both population growth and the development of new types of tests.

Program Description

Medical laboratory testing plays a crucial role in the detection, diagnosis, and treatment of disease. Using sophisticated lab equipment, medical laboratory personnel examine and analyze body fluids and cells. They look for bacteria, parasites, and other microorganisms; analyze the chemical content of fluids; match blood for transfusions; and test for drug levels in the blood to show how a patient is responding to treatment. They also prepare specimens for examination, count cells, and look for abnormal cells in blood and body fluids. They perform analyses in the areas of microbiology, hematology, immunology, biochemistry, and immunohematology, and results are relayed from the lab to physicians.

The Medical Laboratory Technician program has as its mission to provide continuously improving, diversified, quality-learning experiences for students in order to graduate Medical Laboratory Technicians that perform competently and professionally in the field. The Medical Laboratory Technician Program accepts students once a year in the fall semester. The graduate receives an Associate in Applied Science Degree and will be eligible to sit for an ASCP's Board of Certification National examination (the BOC). The Medical Laboratory Technician Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Road, Suite 720, Rosemont, Illinois, 60018; 773-714-8880, www.naacls.org.

In addition to the Associate in Applied Science degree, the program also offers a Medical Laboratory Assistant (MLA) short-term certificate. This option prepares students with the knowledge and skills needed to perform as an MLA. This 12-

hour course of study covers the basic principles and techniques used in the medical laboratory with emphasis on terminology; basic laboratory equipment; safety; and specimen collection, processing, and analysis appropriate for employment at the MLA level. Students in both the associate degree and certificate programs will receive relevant clinical experience.

Admission Requirements (MLT)

1. Unconditional admission to the college – College application must be submitted by the program application deadline.
2. Student must be in good standing with the college.
3. Receipt of complete program applications accepted between March 1 and June 1 for Fall entry. Applications received after the deadline will be considered on a space available basis.
4. The MLT program online application is located on program's webpage at www.wallacestate.edu. Online application instructions are under the *Application to Program* tab. All applicants are required to upload all necessary documentation for consideration.
5. Official transcripts from each college attended must be provided to the Admissions Office and all unofficial transcripts must be uploaded.
6. Student must meet the essential functions and technical standards required for the program as documented on the required WSCC physical form at www.wallacestate.edu-see Physical Form Essential Functions.
7. A minimum of 18 ACT composite score (National or Residual) is required for admission consideration. Proof of score must be uploaded.
8. Meet all the general admission requirements of WSCC.
9. Applicants must possess a minimum prerequisite GPA of 2.5 on a 4.0 scale with a grade of "C" or better on all general required pre-MLT courses. GPA calculated for program selection will be on the general required pre-MLT courses only.

Admission Requirements (MLA)

1. Unconditional admission to the college – College application must be submitted by the program

- application deadline.
2. Student must be in good standing with the college.
 3. Receipt of complete program applications accepted between March 1 and May 1 for Summer entry. Applications received after the deadline will be considered on a space available basis.
 4. The MLA program online application is located on MLT webpage at www.wallacestate.edu. Online application instructions are under the *Application to Program* tab. All applicants are required to upload all necessary documentation for consideration.
 5. Official transcripts from each college attended must be provided to the Admissions Office and all unofficial transcripts must be uploaded.
 6. Student must meet the essential functions and technical standards required for the program as documented on the required WSCC physical form at www.wallacestate.edu-see Physical Form Essential Functions.
 7. Meet all the general admission requirements of WSCC.

Selection and Notification

1. Candidates are ranked for admission on the basis of ACT scores, program prerequisite GPA and completion of admission requirements. All other factors being equal, the date of application will be the deciding factor for admission.
2. Program applications will be reviewed for completion of program admission requirements. Written notification of program acceptance status will be mailed to each applicant at the address given on the application.
3. Following acceptance into the program, students must respond in writing, confirming their intent to enroll, within 10 days after the postmarked date of their acceptance letter. A student who fails to respond will forfeit his/her place in the class.

NOTE: *Students seeking to apply to the MLT program must complete the prerequisite courses listed under the 1st and 2nd semester headings, then submit an application to the program by the June 1st deadline of the year in which they wish to apply to the program. Upon acceptance in to the program, students will complete the 3rd, 4th, and 5th semester courses.*

Program Expectations

Students admitted into the Medical Laboratory Technician or the Medical Laboratory Assistant program are expected to comply with the Health Science Program Regulations and Expectations as published in the Programs of Study section of the Wallace State Community College catalog.

Upon Admission

1. Students must submit a completed physical examination form, current within one year, to the MLT program

director, certifying that they are in good health and are able to meet the requirements for clinical performance. The completed form must include:

- a. Documentation of Hepatitis B immunization (at least two out of three of the initial series)
 - b. Documentation of two immunizations or lab data (titer) indicating adequate immunity against Mumps, Measles, Rubella and Varicella
 - c. Documentation of Tetanus booster, current within 10 years and documentation of one TDAP as an adult
 - d. Documentation of Flu vaccine (October – March)
 - e. Negative 2-step TB skin test (Mantoux)
2. MLT and MLA students are required to carry malpractice, accident, and health insurance.
 3. Drug testing and background screening is required according to Health Science division policy.
 4. Students are required to submit proof of current CPR certification through a health care provider course.
 5. Students accepted into the MLT program must attend the mandatory MLT orientation session. Failure to do so will result in forfeiture of their place in the class.

Progression

Students enrolled in the MLT Program must attain a minimum grade of “C” or better in all MLT and general education courses. Failure to achieve a grade of “C” or better in a MLT course will result in program dismissal. MLT and MLA students are required to exhibit professional behavior at all times.

Readmission to Program

Students whose progression through the MLT program is interrupted for any reason and who desire to reenter the program must schedule an appointment with a MLT faculty advisor to discuss re-entry. The student must apply for program readmission within 2 semesters from the term of withdrawal or failure. Students who apply for readmission will be required to prove competency in all previous coursework to avoid retaking MLT classes which have been successfully completed previously. If a student cannot prove competency, the student must repeat all courses of the program regardless of previous grades obtained.

Readmission or transfer may be denied but not limited to any of the following:

1. Failure to maintain a 2.0 GPA in all general education and MLT courses.
2. Two or more semesters have elapsed since enrollment in MLT coursework.
3. Limited space availability in the courses needed.

Students can be readmitted to the MLT program one time only. Graduation requirements must be met within three (3) years of initial MLT program entry (transferred courses included) to avoid having to repeat all major required

courses.

Transfer Students

Students transferring into the MLT or MLA program must meet all WSCC and MLT or MLA Program requirements for admission. Only those equivalent general education and MLT or MLA courses taken at other accredited institutions and passed with a "C" or better will be applied toward completion of the program. Students attempting to transfer credit hours must be eligible to return to the previous Medical Laboratory Technician or Medical Laboratory Assistant Program in good standing. Students will be required to provide a letter of good standing from the transferring institution. Students who apply for transfer will be required to prove competency in all previous coursework to avoid retaking MLT or MLA classes which have been successfully completed previously.

Career Path

Graduates of the Medical Laboratory Technician or Medical Laboratory Assistant Program are employed in hospital laboratories, physicians' offices, and other laboratory facilities as Medical Laboratory Technicians (MLT) or Medical Laboratory Assistant (MLA). These graduates are allied-health professionals that perform analyses in the areas of microbiology, hematology, immunology, biochemistry, and immunohematology.

Students in the Medical Lab have many options upon completion of training at WSCC. The Associate Degree courses may be applied toward earning a Bachelor of Science Degree. Upon earning a B.S. the technician may challenge the National Certification Exam to become a "Medical Technologist" earning \$5.00 to \$7.00 more per hour. Clinical Specialty Certificates may be earned for any or all of the laboratory areas. The Medical Technology certificate may be used to earn a Master's Degree and also a PhD in Clinical Laboratory Science.

Median annual earnings of medical and Medical Laboratory Technicians were \$38,950 in 2016. The middle 50 percent earned between \$26,010 and \$31,250 and the highest 10 percent earned more than \$61,000. (Source: U.S. Department of Labor Bureau of Labor Statistics)

NOTE: *The Guided Pathways Curricular Maps below contain all the elements required for degree/certificate completion. However, courses may be offered or taken in other semesters so long as prerequisites are met. Additional options for elective courses are available. Please see DegreeWorks for allowable substitutions. Courses may be available days, nights, hybrid, and online. Sample maps for part-time attendance may also be available. Please see an advisor.*

ASSOCIATE DEGREE:

AAS MEDICAL LABORATORY TECHNICIAN – Guided Pathway/Map

1st Semester

ORI 110	Freshman Seminar	1
ENG 101	English Composition I	3
BIO 201**	Human Anatomy & Physiology I	4
MTH 116	Mathematical Applications	3
Total Semester Credit Hours		11

2nd Semester

PSY 200	General Psychology	3
BIO 202**	Human Anatomy & Physiology II	4
HUM 101	Introduction to Humanities	3
EMS 100	Cardiopulmonary Resuscitation I	1
Total Semester Credit Hours		11

3rd Semester

MLT 131	Laboratory Techniques	4
MLT 111	Urinalysis	3
MLT 121	MLT Hematology and Body Fluids	6
MLT 151	MLT Medical Chemistry	5
Total Semester Credit Hours		18

4th Semester

MLT 294	Medical Laboratory Practicum-Hematology and UA	2
MLT 297	Medical Laboratory Practicum-Chemistry and Immunology	2
MLT 191	MLT Immunohematology	5
MLT 141	MLT Microbiology I	5
MLT 181	MLT Immunology	2
Total Semester Credit Hours		16

5th Semester

MLT 142	MLT Microbiology II	3
MLT 295	Medical Laboratory Practicum-Microbiology	2
MLT 296	Medical Laboratory Practicum-Immunohematology	2
MLT 293	MLT Medical Seminar	2
Total Semester Credit Hours		9

TOTAL CREDIT HOURS 65

BIO 103 Prerequisite is **not required for MLT students.

SHORT-TERM CERTIFICATE:

**MEDICAL LABORATORY ASSISTANT SHORT-TERM
CERTIFICATE – Guided Pathway/Map**

Starting Fall 2019

1st Semester

<u>MLT 131 (Flex Start I) Laboratory Techniques I</u>	<u>4</u>
Total Semester Credit Hours	4

2nd Semester

<u>MLT 132 (Flex Start II) Laboratory Techniques II</u>	<u>5</u>
Total Semester Credit Hours	5

3rd Semester

<u>MLT 286 Clinical Lab Practicum for MLA</u>	<u>3</u>
Total Semester Credit Hours	3

TOTAL CREDIT HOURS 12

Starting Summer 2020

1st Semester

<u>MLT 131 (Flex Start I) Laboratory Techniques I</u>	<u>4</u>
<u>MLT 132 (Flex Start II) Laboratory Techniques II</u>	<u>5</u>
Total Semester Credit Hours	9

2nd Semester

<u>MLT 286 Clinical Lab Practicum for MLA</u>	<u>3</u>
Total Semester Credit Hours	3

TOTAL CREDIT HOURS 12

Students enrolled in the MLA Program must attain a minimum grade of “C” or better in all MLA courses. Failure to achieve a grade of “C” or better in a MLA course will result in program dismissal and student will not advance to the clinical portion of the program.