



# Medical Laboratory Technology

Associate in Applied Arts and Sciences (AAAS)  
Certificate of Proficiency (CP)

Planning Guide 2017-2018

EPC 316-3163

## Program Information:

**Length of Program:** 67-114 Credits  
**Completion Award:** A.A.A.S. Degree *or*  
 Certificate of Proficiency  
**Enrollment:** Fall Quarter for professional year  
**Approximate Quarterly Costs:** \$1000  
*(in addition to tuition, books and parking)*  
**Website:** [www.shoreline.edu/medlabtech/](http://www.shoreline.edu/medlabtech/)

## Program Advisor:

**MLT Faculty**  
 206-546-6947 Rm 2328  
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## Program Description:

The Associate in Applied Arts and Sciences degree and Certificate are designed to provide students with the knowledge and skills to work in clinical laboratories as a Medical Laboratory Technician (MLT). Upon completion of the degree, graduates are eligible to take the national MLT certification exam. Certification is a requirement for working in the healthcare field. Shoreline Community College works with clinical affiliates, an MLT advisory committee and accreditation guidelines to make sure students receive the knowledge and skills currently in demand for employment.

## Medical Laboratory Technology (MLT)—What is it?

Medical Laboratory personnel examine, analyze and test clinical specimens such as blood and body fluids to aid in the detection, diagnosis and treatment of disease. Medical Laboratory Technicians perform routine laboratory testing and assigned tasks with quality control and quality assurance. The MLT program prerequisites provide students with a foundation in general education and science courses required before entrance into the program. The professional year covers areas of routine medical laboratory technology through lecture/symposium, eLearning support and student laboratory classes. Students then complete laboratory practicum training in medical laboratories. MLT program graduates are eligible to take the national certification examination for a Medical Laboratory Technician and become certified as an MLT (ASCP). Certification is required to work in medical laboratory facilities.

## Program Outcomes:

Students who successfully complete this program - **by obtaining grade of 2.0 or better for each individual course in this program** - should be able to:

1. Perform routine laboratory testing and procedures in a clinical laboratory.
2. Work effectively in a clinical laboratory setting with co-workers, healthcare staff and patients.
3. Recognize and evaluate normal/abnormal test results and take appropriate action.
4. Perform quality control and evaluate results.
5. Operate routine laboratory equipment and analyzers.
6. Recognize and comply with workplace practices and policies, such as safety and patient confidentiality.
7. Demonstrate a professional work ethics.

## Career Opportunities—What can I do with a degree/certificate in MLT?

Graduates work as Medical Laboratory Technicians in clinical and research laboratories. As generalists in a clinical laboratory, MLTs can develop skills to work in a special testing area. With additional work experience, training and a bachelor's degree, an MLT can advance to a Medical Laboratory Scientist, Medical Technologist, Supervisor and Manager. For salary information, visit the Bureau of Labor Statistics at [www.bls.gov](http://www.bls.gov).

**Potential employers include:** Clinical hospital laboratories, outreach laboratories, medical and reference laboratories, research laboratories, public health laboratories and blood banks. For more, visit career information and resources at <http://www.shoreline.edu/advising>.

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**Program Prerequisites:** For the AAAS degree program, placement into English and Math courses is required. Credit in the physical sciences may be applied if earned within the past ten years. Exceptions may be made on an individual basis. For the Certificate of Proficiency, students must have an Associate or Bachelor’s degree or higher and meet the MLT prerequisite courses; Proof of current Healthcare Provider (CPR & AED) and ENGL& 101 or equivalent.

**A.A.A.S. DEGREE – 114 Credits**

<b>GENERAL EDUCATION CORE REQUIREMENTS   13 Credits</b>			
Course	QTR	GR	CR
ENGL& 101 English Composition I			5
Quantitative/Symbolic Reasoning: MATH 099 Intermediate Algebra <i>or</i> Approved Alternative			5
Multicultural Understanding: BUS 103 Multiculturalism in the Workplace <i>or</i> Approved Alternative			3

<b>PROGRAM CORE REQUIREMENTS   34 Credits</b>			
Human Relations: BUS 105 Essentials of Human Relations <i>or</i> Approved Alternative			2
BIOL& 170 Human Biology			5
BIOL& 211 Majors Cellular Biology			5
BIOL& 260 Microbiology			5
CHEM& 121 Intro to Chemistry			5
CHEM& 131 Intro to Organic/Biochem			5
MLT 123 AIDS Education			1
<b>Spring Quarter Prior to Professional Year</b>			
MLT 181 Intro to Medical Lab Proc.			4
MLT 182 Lab: Medical Lab Proc.			2

**CERTIFICATE OF PROFICIENCY—67 Credits**

Students who already have an Associate degree or higher can apply to the professional year of the program, provided they have completed the Program Core Requirements listed above including BUS 105 Human Relations and ENGL& 101 English Composition. A minimum 2.0 grade is required in prerequisite courses. If the degree earned is from a college outside of the U.S. and courses were not taken in English, then the ENGL& 101 requirement must be met.

Note: Every effort has been made to ensure the accuracy of the information in this publication. However, the information is subject to change without notice and final career decisions are the responsibility of the student.

<b>PROFESSIONAL YEAR   67 Credits</b>		
Course	GR	CR
<b>Fall Quarter</b>		
MLT 221 Hematology Lecture		6
MLT 231 Hematology Laboratory		3
MLT 225 Clinical Immunology Lecture		4
MLT 235 Clinical Immunology Laboratory		2
MLT 233 Parasitology & Mycology Lab		1
<b>Winter Quarter</b>		
MLT 200 Phlebotomy Skills		1
MLT 222 Clinical Chemistry Lecture		6
MLT 232 Clinical Chemistry Laboratory		3
MLT 224 Clinical Microbiology Lecture		5
MLT 234 Clinical Microbiology Laboratory		3
<b>Spring or Fall Quarter</b>		
MLT 241 Hematology Practicum		6
MLT 242 Chemistry Practicum		6
MLT 244 Microbiology Practicum		6
MLT 132 Phlebotomy Practicum		2
<b>Summer Quarter</b>		
MLT 245 Integrated Immunohematology		10
MLT 223 Parasitology & Mycology Lecture		3

<b><i>APPROVAL TO GRADUATE</i></b>	
_____ <i>Student Name &amp; SID</i>	_____ <i>Date</i>
_____ <i>Faculty Advisory</i>	_____ <i>Date</i>
_____ <i>Division Dean</i>	_____ <i>Date</i>
_____ <i>Credential Approval</i>	_____ <i>Date</i>

## PREREQUISITE SEQUENCE

Follow prerequisite course sequence:

English Sequence: ENGL 80, ENGL 90, EAP 99 or ENGL 99, ENGL& 101

Math Sequence: MATH 60, MATH 70, MATH 98, MATH 99

Science Sequence: MATH 99, CHEM& 121, BIOL&211 and CHEM& 131, BIOL& 260

## ADDITIONAL INFORMATION

MLT Program applications are due May 10th. Selection to the Professional year of the MLT program is based on successful completion of academic prerequisite requirements. Acceptance is limited by the number of clinical spaces for practicum training. Students accepted into the MLT program must be full time student. The MLT program application can be found at [www.shoreline.edu/MedicalLab01.aspx](http://www.shoreline.edu/MedicalLab01.aspx).

Required vaccinations: Hepatitis B, MMR, Tdap, influenza, and two-step TB skin tests. Varicella recommended and may be required.

Required Documents: Background check, AIDS/HIV Education certificate for 7 contact hrs., Health insurance, and AHA BLS CPR certification.

Assigned clinical training facilities may have additional student requirements.

### Professional Organizations:

American Society for Clinical Laboratory Science (ASCLS), [www.ascls.org](http://www.ascls.org)

American Society for Clinical Laboratory Science- Washington State, [www.asclswa.org](http://www.asclswa.org)

American Society for Clinical Pathology, [www.ascp.org](http://www.ascp.org)

### Certification in clinical laboratory careers:

Medical Laboratory Technician Certification: MLT (ASCP) bold American Society for Clinical Laboratory Pathology (ASCP) [www.ascp.org](http://www.ascp.org) ASCP Board of Certification <https://www.ascp.org/content/board-of-certification>

### MLT Program Accreditation:

National Accrediting Agency for Clinical Laboratory Science (NAACLS), [www.naacls.org](http://www.naacls.org) ; 5600 N River Road, Rosemont, IL 60018-5119

### Salary Information:

Bureau of Labor Statistics, <http://www.bls.gov/>

Salary.com, [www.salary.com](http://www.salary.com)

### Job Search Information:

Washington State Hospital Association, member listing, <http://www.wsha.org>

Job listing: <https://www.indeed.com>

Job seeking: <https://www.shoreline.edu/workforce/worksource/job-seekers.aspx>