



Medical Laboratory Technology

Associate in Applied Arts and Sciences (AAAS)

Certificate of Proficiency (CP)

Planning Guide 2011–2012

Revised 2/14/12

Program Information

Length of Program: 67- 114 Credits

Completion Award: A.A.A.S. Degree
Certificate of Proficiency (C.P.)

Enrollment: Fall quarter for professional year

Approximate Book Costs: \$1000
(in addition to tuition, vaccinations and parking)

Website: www.shoreline.edu/MedicalLab01.aspx

Program Advisors:

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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.

EPC 316 & 3163

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 provides 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 examinations for Medical Laboratory Technician.

Program Outcomes:

Students who successfully complete 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 sound 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.

Potential employers include: Clinical Hospital Laboratories, Outreach Laboratories, Medical and Reference Laboratories, Research Laboratories, Public Health Laboratories and Blood Banks. For more, please visit career information and resources at www.shoreline.edu/acc/CareerCounseling.aspx

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PROGRAM PREREQUISITES: For the AAAS degree program, a COMPASS test is required for placement into English and Math courses. 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

GENERAL EDUCATION CORE REQUIREMENTS 15			
Course	QTR	GR	CR
ENGL& 101 English Composition I			5
Quantitative/Symbolic Reasoning : MATH 099 Intermediate Algebra or Approved Alternative			5
Multicultural Understanding: BUS 103 Multiculturalism in the Workplace or Approved Alternative			3
Human Relations: BUS 105 Essentials of Human Relations or Approved Alternative			2

PROGRAM CORE REQUIREMENTS¹ 32 Credits			
Course	QTR	GR	CR
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
Spring Quarter Prior to Professional Year			
MLT 181 Intro to Medical Lab Proc.			4
MLT 182 Lab: Medical Lab Proc.			2

PROFESSIONAL YEAR 67 Credits			
Course	QTR	GR	CR
Fall Quarter			
MLT 221 Hematology Lecture			6
MLT 231 Hematology Laboratory			3
MLT 225 Immunology Lecture			4
MLT 235 Immunology Laboratory			2
MLT 233 Parasitology & Mycology Lab			1
Winter Quarter			
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
Spring or Fall Quarter			
MLT 241 Hematology Practicum			6
MLT 242 Chemistry Practicum			6
MLT 244 Microbiology Practicum			6
MLT 132 Phlebotomy Practicum			2
Summer Quarter			
MLT 245 Integrated Immunohematology			10
MLT 223 Parasitology and Mycology Lecture			3

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.

<u>APPROVAL TO GRADUATE</u>	
_____ <i>Faculty Advisor</i>	_____ <i>Date</i>
_____ <i>Division Dean</i>	_____ <i>Date</i>
_____ <i>Credentials Approval</i>	_____ <i>Date</i>
7/06/11	

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.

¹ A 2.0 minimum grade is required in each core course requirement.

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SAMPLE SCHEDULE FOR AAAS—PREREQUISITE REQUIREMENTS

Summer Qtr.	Fall Quarter	Winter Quarter	Spring Quarter	Summer Qtr.
MATH 99 Int. Algebra (5)	BUS 105 Human Relations (2) CHEM& 121 Intro to Chemistry (5) ENGL& 101 English Comp. I (5)	BIOL& 170 Human A&P (5) CHEM& 131 Organic/Biochemistry (5) BUS 103 Multiculturalism in the Workplace (3)	MLT 181 Intro to Med Lab Proc Lect* (4) MLT 182 Intro Med Lab Proc Lab* (2) BIOL& 211 Cell Biology (5) MLT 123 AIDS Ed. (1)	BIOL& 260 Microbiology (5)
5 Credits	12 Credits	13 Credits	12 Credits	5 Credits

*MLT courses only offered Spring Quarter; BUS 105 offered Fall, Winter and Spring.
 Recommend no more than two science courses or a science and math course per quarter.
 Follow prerequisite course sequence:
 English Sequence: ENGL 80, ENGL 90, ESL 100 or ENGL 100, ENGL& 101
 Math Sequence: MATH 60, MATH 70, MATH 80, 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 program must be full time students and submit a health assessment form, criminal background check, documentation of vaccinations, health insurance and CPR for Healthcare Providers. The MLT program application can be found at www.shoreline.edu/MedicalLab01.aspx

Professional Organizations:

American Society for Clinical Laboratory Science (ASCLS), www.ascls.org
 American Society for Clinical Laboratory Science- Washington State, www.asclswa.org
 American Society for Clinical Pathology, www.ascp.org
 American Society for Medical Technologist, www.amt1.com

Certification in clinical laboratory careers:

MLT American Society for Clinical Pathologist (ASCP) Board of Certification, www.ascp.org/boc

MLT Program Accreditation:

National Accrediting Agency for Clinical Laboratory Science (NAACLS), www.naacls.org

Salary Information:

Bureau of Labor Statistics, <http://www.bls.gov/>
 Salary.Com, www.salary.com

Job Search Information:

Workforce Explorer, <http://www.workforceexplorer.com/>
 Washington State Hospital Association, member listing, <http://www.wsha.org/0111.cfm>