

University of Hawaii at Manoa
John A. Burns School of Medicine
Department of Medical Technology

Curriculum Map
Update: March, 2018

Program Mission Statement

- EDUCATE: Prepare students to become medical technologists (medical laboratory scientists, MLS);
- COLLABORATE: Promote partnerships with the community to expand knowledge and resources, and;
- INNOVATE: Discover, develop and implement advances in Medical Laboratory Science.

Career Entry Level MLS

An MLS is a health care professional who performs laboratory tests, interprets data, and manages the clinical laboratory. Tests are done on blood, urine, and other specimens to help diagnose and treat diseases, and to monitor health status.

- Able to perform the functions with minimal direction and occasional supervision.
- Requires the necessary orientation for new hires.
- Capable of organizing and planning routines.
- Capable of evaluating, troubleshooting, and problem solving where indicated.

General Student Learning Outcomes

- Meet the MLS entry-level skills for each discipline as specified by the Curriculum Subcommittees. Skills include pre-analytical (e.g., specimen procurement, preparation, equipment calibration), analytical (e.g., analysis, instrument operation, quality control), and post-analytical (e.g., reporting, follow up). Major disciplines within the field include Hematology/Hemostasis (HE), Clinical Chemistry (CH), Clinical Microbiology (MI), Urinalysis/Body Fluids/Microscopy (UA), Molecular Diagnostics (MO) Immunology/Serology (IM), Immunohematology (BB), Phlebotomy (PH), and Laboratory Management (LM).

- Demonstrate MLS entry-level knowledge of each discipline as specified by the Curriculum Subcommittees. Knowledge include principle of analysis, sources of error, correlations, interpretations, managing unexpected outcomes, communications.
- Demonstrate MLS entry-level professionalism as specified by the Curriculum Subcommittees. Professional traits include reliability, flexibility, integrity, ethics, initiative, and interpersonal relations.

MLS-Related Tasks (Terminal Competency Levels) Assessed

- Able to perform the functions of MLS with minimal direction and occasional supervision.
- Able to organize and plan routines of MLS duties at a career-entry level.
- Able to evaluate, troubleshoot, and problem solve as MLS at a career-entry level.
- Able to effectively communicate orally and present professional issues.

2018 Map for MLT-to-MLS Students (students admitted with MLT certification)

I: Introduced

R: Reinforced, practiced

M: Mastery at the career-entry level

A: Assessment evidence collected

	Able to perform the functions of MLS with minimal direction and occasional supervision.									Able to organize and plan routines of MLS duties at a career-entry level.	Able to evaluate, troubleshoot, and problem solve as MLS at a career-entry level.	Able to effectively communicate orally and present professional issues.
	HE	CH	MI	UA	MO	IM	BB	PH	LM			
MLT Program	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R		I	I	I
MEDT 301 Clin Lab		R		R		R		R		R	R	
MEDT 331 Lab Mgt									R			
MEDT/TRMD 431 Parasitology			R			R				R	R	
MEDT 451/L	R				R			R		R	R	

Hematology												
MEDT 464 Blood Bank						R	R			R	R	R
MEDT 471/472 Clin Biochem		R			R							
MEDT 477/478 Meth & Analy	R	R			R			R		R	R	
MEDT 481 Prof Issues									R			M,A
MEDT 591 Clin Training	M,A	M,A	M,A	M,A	M,A	M,A	M,A	M,A	A	M,A	M,A	M,A
Non-MEDT Courses												
BIOL 171/L, 172 Gen Biol					R							
BIOL 275 Mol Biol					R							
MICR 461 Immunology						R						
MICR 463 Pathogens			R									

Additional Courses for “Second-Degree” Route Students (no MLT certification)

	Able to perform the functions of MLS with minimal direction and occasional supervision.									Able to organize and plan routines of MLS duties at a career-entry level.	Able to evaluate, troubleshoot, and problem solve as MLS at a career-entry level.	Able to effectively communicate orally and present professional issues.
	HE	CH	MI	UA	MO	IM	BB	PH	LM			
MEDT 151 Intro I	I	I	I	I		I	I	I	I	I	I	I
MEDT 251 Intro II	I,R			I,R				I,R		R	R	
MEDT 302 Clin Lab II	I,R	I,R					I,R			R	R	

Non-MEDT Courses												
MICR 461L Immunology Lab						R						
MICR 463L Pathogens Lab			R									

Overall Program Assessment Tools

- MEDT 591 Clinical Affiliate assessment and final comprehensive exam
- ASCP Certification Exam scores
- Employer (Clinical Affiliate) survey
- Graduate survey
- MLT/MT Joint Advisory Committee