

University of Hawaii at Manoa, John A. Burns School of Medicine
Department of Medical Technology www.hawaii.edu/medtech/Medtech.html
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Honolulu, HI 96822
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Second (2nd) Bachelor's Degree Route & Internal Application

GROUND PROGRAM

Medical Technologist (also known as Medical Laboratory Scientist, MLS) is a health professional that performs clinical laboratory tests, interprets the data, and manages the medical lab. Tests are done on blood, urine and other specimens to help diagnose and treat diseases, and to monitor health status. The MLS performs microscopy, phlebotomy, and operates computerized instruments. The MLS also helps physicians select appropriate tests and is responsible for assuring the quality of the results. While most MLSs are employed in hospitals and clinics, many are also in research, industrial labs, molecular diagnostics, veterinary medicine, forensic medicine, and other arenas.

This admission route is a special one for those who already have a bachelor's degree but are unable to follow the primary MLT-MLS route.

GENERAL STUDENT LEARNING OUTCOMES

At the completion of the Medical Technology curriculum, student is able to:

- 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, Clinical Chemistry, Clinical Microbiology, Urinalysis/Body Fluids/Microscopy, Molecular Diagnostics, Immunology/Serology, Immunohematology, Phlebotomy, and Laboratory Management.
- 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.

ADMISSION REQUIREMENTS

The University of Hawaii at Manoa (UHM) Department of Medical Technology is in the College of Health Sciences and Social Welfare, John A. Burns School of Medicine. Admission criteria:

- Bachelor's degree from an accredited university or college; □ Minimum 2.5 cumulative GPA.
- Minimum 2.5 GPA in relevant math and science courses.
- Completed admission requirements (up to 2 courses may be taken while on probationary admission status) ○ CHEM 161/L, 162/L, 272/L, 273 ○ BIOL 171/L, 172, 275 ○ MATH 140 or higher ○ MEDT 151, 251 ○ MICR 351/L
- Submit the attached application form to the Department of Medical Technology

You must also be able to perform the following Essential Functions:

- Manipulate labware to transfer or prepare reagents and samples (e.g., pipet, charge hemocytometers, prepare blood smears).
- Operate simple instruments according to instructions (e.g., cell counter, centrifuge, spectrophotometer).
- Perform microscopic examination on various specimens and report the results (e.g., leukocyte differential counts, cell morphology, urinary sediments).
- Follow written and verbal directions to perform laboratory tests and report results.

If you are on probationary status (while completing the admission requirement), you will be an unclassified graduate student at UHM; you will become an undergraduate Medical Technology student. If you are currently enrolled in a UHM program, you will submit a transfer of college/major.

DEGREE REQUIREMENTS

In addition to the courses listed below, you must complete the UHM graduation requirements with at least 30 credits in residence. For those with a non-UH bachelor's degree, refer to the UHM General Education site (<http://www.hawaii.edu/gened/>) for information. A C or better must be earned for all MEDT and senior MICR courses; no more than one C-minus, D-plus or D is allowed in other required math/science courses.

Prior to admission, you must have completed CHEM 161/L, 162/L, 272/L, 273, BIOL 171/L, 172, 275, MATH 140 (or higher), MEDT 151, 251 (includes phlebotomy), and MICR 351/L. Once admitted to the UHM Medical Technology major, the following courses are required to complete the bachelor's degree. Note that some courses are available at Community Colleges and summer sessions at UHM.

JUNIOR, FALL

PHYL 301 (Human) MEDT
301 (Clinical Lab)
MEDT 331 (Lab Mgmt)
BIOL 172 (Intro II)

JUNIOR, SPRING

PHYL 302 (Human)
TRMD 431 (Parasitology)
MEDT 431 (Clin Parasitology)
MEDT 471 (Clin Bioc I) MEDT
302 (Clinical Lab II)

SENIOR, FALL

MICR 461 (Immunol)
MEDT 451+L (Hematology)
MEDT 477 (Meth & Analy I)
MEDT 472 (Clin Bioc II)

SENIOR, SPRING

MICR 463 (Pathogens)
MEDT 478 (Meth & Analy II)
MEDT 464 (ImmunoHEME)
MEDT 481 (Professional Issues)

MEDT 591 POST-BACCALAUREATE CLINICAL TRAINING: A six-month Clinical Training (MEDT 591) follows graduation. Alternatively, 2 years of work experience may qualify you to challenge the MLS national certification from the American Society for Clinical Pathology (ASCP). Contact an academic advisor for detailed information.

OTHER REQUIREMENTS

- Professional liability insurance, which costs about \$40 per year.
- Immunizations: immunization for Hepatitis B virus is highly recommended.
- Clinical affiliates for MEDT 591 may have additional requirements (e.g., immunizations, TB clearance, CPR/AED training, criminal background check).

CERTIFICATION AND LICENSURE

After Clinical Training, you are eligible to take an exam administered by a national certification agency. In Hawaii, both the certification and the state licensure are required for employment.

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

**Internal Application to Major in Medical Technology: Second
Degree Route**

Name (LAST, first):	Student ID:	
Mailing Address:	Phone:	Email:

Previous Bachelor's Degree:

School Name, Location	Major	BA or BS	Date Graduated	Cumulative GPA

Math/Science GPA:

Course	Semester Credit		Grade (4-point scale)		Grade Point
CHEM 161		<input type="checkbox"/>		=	
CHEM 161L		<input type="checkbox"/>		=	
CHEM 162		<input type="checkbox"/>		=	
CHEM 162L		<input type="checkbox"/>		=	
CHEM 272		<input type="checkbox"/>		=	
CHEM 272L		<input type="checkbox"/>		=	
CHEM 273		<input type="checkbox"/>		=	
BIOL 171		<input type="checkbox"/>		=	
BIOL 171L		<input type="checkbox"/>		=	
BIOL 172		<input type="checkbox"/>		=	
BIOL 275		<input type="checkbox"/>		=	
MATH 140		<input type="checkbox"/>		=	
MEDT 151		<input type="checkbox"/>		=	
MEDT 251		<input type="checkbox"/>		=	
MICR 351		<input type="checkbox"/>		=	
MICR 351L		<input type="checkbox"/>		=	

Total Semester Credit =

Total Grade Point =

Math/Science GPA = Total Grade Point ÷ Total Semester Credit =

Verifications: Please initial on the lines after reading the following statements:

_____ I can perform the Essential Functions (see page 1).

_____ I understand that either post-baccalaureate clinical training (MEDT 591) or acceptable work experience is required to qualify for the national certification exam.

_____ While in this curriculum, I will purchase professional liability insurance for laboratory work (e.g., 2009 premium from Chicago Insurance Company via Marsh Affinity Group Services was \$35 or \$1 M each incident, \$3 M policy aggregate).

I have read all the information in this application form. All information submitted in applying to Medical Technology is true to the best of my knowledge. Any misrepresentation or omission could delay the processing of this application and may invalidate acceptance.

Signature _____ Date _____

Return the completed form to:

Department of Medical Technology, Admissions
1960 East-West Rd. Biomed C 206
Honolulu, Hawaii 96822

OR

medtech@hawaii.edu