

WESTERN DAKOTA

TECHNICAL COLLEGE

MEDICAL LABORATORY TECHNICIAN

Associate of Applied Science, 69 Credit Hours, 18-Month Program

The goal of the Medical Laboratory Technician Program at Western Dakota Technical College is to educate and train students with a wide range of academic and clinical skills in order to gain employment as competent, entry-level Medical Laboratory Technicians. Students graduating from the MLT Program at WDTC will possess psychomotor, cognitive, and affective skills necessary to sustain professional employment in a variety of clinical settings.

Medical Laboratory Technicians collect, process, and analyze blood, biological specimens, and other substances for laboratory analysis. They perform low-and high-complexity analytical testing of cells and body fluids, perform and monitor quality control within predetermined limits, relate laboratory findings to common disease processes, recognize factors that affect procedures and results, apply basic scientific principles in learning new techniques, and perform preventative maintenance on equipment and instruments. Medical laboratory technicians adhere to principles of safety and infection control and maintain continuing education as a function of growth and development in their profession. They play a vital role in the healthcare system by recognizing the responsibilities of other laboratory and health care personnel.

Medical laboratory technicians are employed in hospitals, medical clinics, physician offices, medical and industrial laboratories, blood bank centers, and public health facilities. Upon successful completion of the MLT Program and clinical rotations, students will sit for the American Society of Clinical Pathologists (ASCP) Board of Certification exam. Students entering this profession will find excellent employment opportunities.

Course No.	Course Title	Credits
General Education Requirements		
CHEM 106	CHEMISTRY SURVEY	3
CHEM 106L	CHEMISTRY SURVEY LAB	1
ENGL 101	COMPOSITION I * <i>or</i>	3
ENGL 106	WORKPLACE COMMUNICATIONS I*	
MATH 101	INTERMEDIATE ALGEBRA** <i>or higher</i>	3
PSYC 101	GENERAL PSYCHOLOGY <i>or</i>	3
PSYC 103	HUMAN RELATIONS IN THE WORKPLACE	
SOC 100	INTRODUCTION TO SOCIOLOGY	3
	Total	16
Technical Requirements		
HC 114	ANATOMY& PHYSIOLOGY FOR THE HEALTH PROFESSIONS	3
HC 213	MEDICAL TERMINOLOGY I	3
MLT 205	IMMUNOLOGY <i>online</i>	3
MLT 210	CLINICAL CHEMISTRY	4
MLT 215	IMMUNOHEMATOLOGY	4
MLT 222	URINALYSIS/BODY FLUIDS	2
MLT 230	HEMATOLOGY/COAGULATION	4
MLT 250	PARASITOLOGY/MYCOLOGY	1
MLT 255	CLINICAL MICROBIOLOGY	4
MLT 275	MEDICAL LABORATORY TECHNICIAN CLINICAL	12
MLT 280	MEDICAL LABORATORY TECHNICIAN CERTIFICATION REVIEW <i>online</i>	1
PH 114	PHLEBOTOMY PRINCIPLES AND PRACTICES	4
PH 115	INTRODUCTION TO LAB METHODS	3
PH 133	POINT OF CARE AND FUNDAMENTAL DIAGNOSTICS	3
PH 165	PHLEBOTOMY CLINICAL	2
	Total	53

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

**Prerequisite: Acceptable ACCUPLACER score or Elementary Algebra or Mathematical Reasoning.

Prerequisite: Acceptable ACCUPLACER Reading score greater than 255.

NOTE: The MLT program requires applicants to meet minimum ACCUPLACER scores prior to being accepted into the program. Visit with Admissions to determine eligibility.

Semester breakdown on next page

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Semester Breakdown AAS

First Semester			Second Semester		
		CR			CR
HC 114	Anatomy & Physiology for the Health Professions	3	CHEM 106	Chemistry Survey	3
HC 213	Medical Terminology I	3	CHEM 106L	Chemistry Survey Lab	1
MATH101	Intermediate Algebra <i>or higher</i>	3	MLT 205	Immunology <i>online</i>	3
PH 114	Phlebotomy Principles and Practices	4	MLT 222	Urinalysis/Body Fluids	2
PH 133	Point of Care and Fundamental Diagnostics	3	MLT 230	Hematology/Coagulation	4
PH 165	Phlebotomy Clinical	2	MLT 250	Parasitology/Mycology	1
			PH 115	Introductions to Lab Methods	3
Total Credit Hours		18	Total Credit Hours		17
Third Semester			Fourth Semester		
		CR			CR
ENGL 101	Composition I <i>or</i>	3	MLT 275	Medical Laboratory Technician Clinical	12
ENGL 106	Workplace Communications I		MLT 280	Medical Laboratory Technician Certification Review <i>online</i>	1
MLT 210	Clinical Chemistry	4	SOC 100	Introduction to Sociology <i>online</i>	3
MLT 215	Immunohematology	4			
MLT 255	Clinical Microbiology	4			
PSYC 101	General Psychology <i>or</i>	3			
PSYC 103	Human Relations in the Workplace				
Total Credit Hours		18	Total Credit Hours		16

Clinicals, practicums, and internships may include, but are not limited to differential shifts (evenings, nights, weekends, and holidays) to meet industry expectations. Clinicals may occur during summer semester depending on program enrollments. This may require travel outside the Rapid City area. Professional licensure and certification requirements often vary from state to state. Educational requirements by state for this program can be found <https://www.wdt.edu/degree-programs/medical-laboratory-technician/>.

[Required steps to obtain the credential for the MLT program \(PDF\)](#)

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.