

MEDICAL LABORATORY TECHNICIAN

Associate of Applied Science, 68 Credit Hours, 18-Month Program

The goal of the Medical Laboratory Technician Program at Western Dakota Tech 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 WDT 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
CIS 105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ENGL 101	COMPOSITION* <i>or</i>	3
ENGL 201	TECHNICAL WRITING 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	19
Technical Requirements		
HC 114	ANATOMY & PHYSIOLOGY FOR THE HEALTH PROFESSIONS	3
HC 213	MEDICAL TERMINOLOGY I	3
MLT 205	IMMUNOLOGY	3
MLT 210	CLINICAL CHEMISTRY	4
MLT 215	IMMUNOHEMATOLOGY	4
MLT 220	URINALYSIS/BODY FLUIDS	3
MLT 230	HEMATOLOGY/COAGULATION	4
MLT 240	CLINICAL MICROBIOLOGY/ PARASITOLOGY/MYCOLOGY	4
MLT 275	MEDICAL LABORATORY TECHNICIAN CLINICAL	12
MLT 280	MEDICAL LABORATORY TECHNICIAN CERTIFICATION REVIEW <i>online</i>	1
PH 103	PHLEBOTOMY PRINCIPLES AND PRACTICES	3
PH 105	LABORATORY ASSISTANT TECHNIQUES LAB	1
PH 125	PHLEBOTOMY PRINCIPLES AND PRACTICES LAB	2
PH 126	LABORATORY ASSISTANT TECHNIQUES	2
	Total	49

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

**Prerequisite: Acceptable ACCUPLACER score or Basic Math.

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.

Semester breakdown on next page

Semester Breakdown

First Semester			Second Semester		
		CR			CR
HC 114	Anatomy & Physiology for the Health Professions	3	MLT 210	Clinical Chemistry	4
HC 213	Medical Terminology I	3	MLT 215	Immunohematology	4
MLT 205	Immunology	3	PH 105	Laboratory Assistant Techniques Lab	1
PH 103	Phlebotomy Principles and Practices	3	PH 126	Laboratory Assistant Techniques	2
PH 125	Phlebotomy Principles and Practices Lab	2	CHEM 106	Chemistry Survey	3
MATH 101	Intermediate Algebra <i>or higher</i>	3	CHEM 106L	Chemistry Survey Lab	1
			CIS 105	Microcomputer Software Applications I	3
Total Credit Hours		17	Total Credit Hours		18
Third Semester			Fourth Semester		
		CR			CR
MLT 220	Urinalysis/Body Fluids	3	MLT 275	Medical Laboratory Technician Clinical	12
MLT 230	Hematology/Coagulation	4	MLT 280	Medical Laboratory Technician Certification Review <i>online</i>	1
MLT 240	Clinical Microbiology/Parasitology/Mycology	4	SOC 100	Introduction to Sociology <i>online</i>	3
ENGL 101	Composition <i>or</i>	3			
ENGL 201	Technical Writing I				
PSYC 101	General Psychology <i>or</i>	3			
PSYC 103	Human Relations in the Workplace				
Total Credit Hours		17	Total Credit Hours		16

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.