

CLINICAL LABORATORY SCIENCE TECHNOLOGY

The Clinical Laboratory Science Technology program prepares graduates for employment in hospital, urgent care, physicians' offices, research, and industry laboratory settings. Examination and analysis of body fluids, tissues and cells play a crucial role in a physician's ability to diagnose and treat disease. The Clinical Laboratory Science Technology Program trains students to work in various areas of a clinical laboratory, including hematology, urinalysis, immunohematology (blood bank), microbiology and chemistry. Students collect blood samples, work with state-of-the-art clinical laboratory instrumentation, perform chemical and microscope analysis of urine, match blood for transfusion, identify abnormal blood cells under the microscope and identify infectious bacteria-causing infection in various body locations. Upon completion of the accredited program, graduates will possess an Associate of Applied Science Degree and are eligible to take the American Society of Clinical Pathologists (ASCP) Board of Registry or the National Certifying Agency for Medical Laboratory Personnel (NCA) national certifying examination. Those passing the examination are certified as Medical Laboratory Technicians (MLT-ASCP) or Clinical Laboratory Technicians (CLT-NCA). Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

PRE- CLINICAL LABORATORY SCIENCE TECHNOLOGY COURSEWORK

First Year

Taken at Terra Community College

FALL SEMESTER								
Course	Course Title	Prerequisites	Corequisites	Credit Hours	Contact Hours	Lecture Hours	Lab Hours	Clinical Hours
GEN 1000	First Year Seminar			1	1	1	0	0
BIO 2010	Biology I	2 years of BOTH high school math and science (Biology & Chemistry are recommended) and COMPASS placement into both MTH1310 and ENG1050	BIO 2015	4	4	4	0	0
BIO 2015	Biology I Lab		BIO 2010	1	3	0	3	0
CHM 1010	Intro to General Chemistry	Placement into MTH1310, Intermediate Algebra or equivalent, college level reading and Chemistry Placement Exam	CHM 1015	3	3	3	0	0
CHM 1015	Intro to General Chemistry Lab		CHM 1010	1	2	0	2	0
ENG 1050	College Composition I	Placement testing		3	3	3	0	0
Elective	Arts and Humanities, Social Science OR Computer Information Systems Electives			3	3	3/2	0/2	0
				16	16	14/13	5/7	0

SPRING SEMESTER								
BIO 2020	Biology II		BIO 2025	4	4	4	0	0
BIO 2025	Biology II Lab		BIO 2020	1	3	0	3	0
CHM 1020	Intro to Organic and Biochemistry	"C" or better in CHM1010 and CHM1015	CHM 1025	3	3	3	0	0
CHM 1025	Intro to Organic and Biochemistry Lab		CHM 1020	1	2	0	2	0
ENG 1060	College Composition II	"C" or better in ENG1020 or ENG1050		3	3	3	0	0
SOC 2010	Fundamentals of Sociology	College level reading and writing		3	3	3	0	0
				15	18	13	5	0

CLINICAL LAB SCIENCE TECHNOLOGY CURRICULUM Second Year

Lorain County Community College Classes

FALL SEMESTER						
Course	Course Title	Credit Hours	Contact Hours	Lecture Hours	Lab Hours	Clinical Hours
>**CLSC 111	Intro/Clinical Laboratory Science Technology	2	2	2	0	0
>**CLSC 112	Clinical Laboratory Science Analysis/Calculations	2	2	2	0	0
>**CLSC 121	Introduction to Body Fluids and Hematology	7	16	4	3	9
		11	20	8	3	9

SPRING SEMESTER						
>**CLSC 122	Advanced Hematology and Immunohematology	7	16	4	3	9
		7	16	6	3	9

SUMMER SEMESTER						
>**CLSC 123	Advanced Hematology and Immunohematology Case Studies	2	2	2	0	0
		2	2	2	0	0

Third Year

Lorain County Community College Classes

FALL SEMESTER						
Course	Course Title	Credit Hours	Contact Hours	Lecture Hours	Lab Hours	Clinical Hours
>**CLSC 213	Clinical Microbiology, Immunology and Serology	9	22	5	4	13
		9	22	5	4	13

SPRING SEMESTER						
>**CLSC 221	Clinical Chemistry	10	23	6	4	13
		10	23	6	4	13

1. American Heart Association Healthcare Provider certification is required upon entrance into the program.
2. > Indicates that this course has a prerequisite.
3. ** Indicates that a grade of "C" (2.0) or better must be earned in order to continue in the sequence.
4. **OR** Indicates that a student may select either course, which may have an effect on the total credit hours.
5. Students who expect to continue on for a Baccalaureate degree should consider taking MTHM 171, CHMY 171 and 172, and consult with a college counselor.
6. ^ A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 13 more credit hours.