

CLINICAL LABORATORY TECHNOLOGY (MEDICAL LABORATORY TECHNICIAN), ASSOCIATE IN APPLIED SCIENCE

Forest Park

This program prepares students for entry-level positions as clinical laboratory technicians. Through classroom and practical experience in hospital and clinical laboratories, students learn to perform qualitative, quantitative and analytic testing in microbiology, hematology, immunohematology, clinical chemistry, serology, immunology and urinalysis.

Persons interested in this program should have an interest in biology, chemistry and the health sciences and be able to follow precise and detailed instructions.

To graduate, a student must obtain a "C" or better on all science, math courses and all courses in the area of concentration.

Graduates are eligible to take the American Society for Clinical Pathology (ASCP) Board of Certification Examination. Positions are available in hospitals, clinics, doctors' offices, independent laboratories, and public health, research and industrial laboratories.

Cost of Attendance. For more information on cost of attendance visit MoSCORES (<https://scorecard.mo.gov/Search/>).

Program Career and Salary Information. Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: <https://scorecard.mo.gov/scorecard/> (https://www.google.com/url?q=https://scorecard.mo.gov/scorecard/&sa=D&ust=1555536894857000&usg=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJQC). Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Interested in this program? Start the enrollment process by visiting the Apply to STLCC (<https://www.stlcc.edu/admissions/apply-to-stlcc/>) page.

At the completion of the program, students are expected to:

1. demonstrate knowledge and skills required to perform clinical laboratory tests to the satisfaction of the employer.
2. obtain a passing grade on a national certifying examination.
3. meet industry expectations with regards to skills, knowledge and safe work habits.

4. demonstrate effective interpersonal communication skills in professional settings.

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. Information on who is eligible for a waiver can be found on our website: <https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>.

Program of Study

Code	Title	Credit Hours
Career General Education		
ENG 101	College Composition I (MOTR ENGL 100)	3
ENG 102	College Composition II (MOTR ENGL 200)	3
or ENG 103	Report Writing (MOTR ENGL 110)	
XXX xxx	Social & Behavioral Sciences: Civics Requirement	3
SOC 101	Introduction to Sociology (MOTR SOCI 101)	3
or PSY 200	General Psychology (MOTR PSYC 100)	
CHM 101	Fundamentals of Chemistry I (MOTR CHEM 100L)	5
BIO 207	Anatomy and Physiology I (MOTR LIFS 150LAP)	4
BIO 208	Anatomy and Physiology II	4
MTH 140	Intermediate Algebra (or higher)	3
Physical Education Activity		
Select 2 credit hours		2
Program Requirements		
CLT 100	Orientation to the Medical Laboratory	1
CLT 101	Medical Microbiology	3
CLT 202	Clinical Practice I	4
CLT 207	Clinical Practice II	4
CLT 110	Urinalysis and Body Fluids	2
CLT 111	Hematology and Coagulation	4
CLT 113	Pathogenic Bacteriology	2
CLT 211	Parasites, Fungi and Intracellular Pathogens	2
CLT 213	Introduction to Clinical Chemistry	2
CLT 217	Clinical Chemistry	5
CLT 215	Immunohematology	4
CLT 219	Professional Skills Seminar	1
CLT 115	Immunology and Serology	2
CLT 120	Clinical Laboratory Skill Development	4
Total Credit Hours		70

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. Information on who is eligible for a waiver can be found on our website: <https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>.

PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2021, you may need to view an archived catalog (<https://www.stlcc.edu/programs-academics/course-catalog/>) for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
BIO 207	Anatomy and Physiology I (MOTR LIFS 150LAP)	4	BIO 111 or CHM 101 with grade of "C", or course equivalency, and Reading Proficiency	
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	
CLT 100	Orientation to the Medical Laboratory	1	Admission to program and Reading Proficiency	
CLT 101	Medical Microbiology	3	Admission to program and Reading Proficiency	
CLT 110	Urinalysis and Body Fluids	2	Admission to the program or permission of the program director	
CHM 101	Fundamentals of Chemistry I (MOTR CHEM 100L)	5	MTH 050 with a minimum grade of "C", or placement into MTH 140 or higher on the Math placement test, and Reading Proficiency or concurrent enrollment in RDG 079	
	Credit Hours	18		
Spring				
CLT 111	Hematology and Coagulation	4	CLT 100 with a minimum grade of "C" or permission of the program director, and Reading Proficiency	
CLT 113	Pathogenic Bacteriology	2	CLT 101 with a minimum grade of "C" or permission of the program director, and Reading Proficiency	
CLT 115	Immunology and Serology	2	CLT 101 with a minimum grade of "C" and Reading Proficiency	
BIO 208	Anatomy and Physiology II	4	BIO 207 with a minimum grade of "C" and Reading Proficiency	
MTH 140	Intermediate Algebra	3	MTH 030 or MTH 040 or MTH 050 with a grade of "C" or better or satisfactory score on placement test and Reading Proficiency	
	Credit Hours	15		
Summer				
CLT 120	Clinical Laboratory Skill Development	4	CLT 110, CLT 111, CLT 113, CLT 115 all with minimum grades of "C" and Reading Proficiency	
ENG 102 or 103	College Composition II (MOTR ENGL 200) or Report Writing (MOTR ENGL 110)	3	ENG 101 with a grade of "C" or better and Reading Proficiency	
	Credit Hours	7		

Second Year				
Fall				
CLT 211	Parasites, Fungi and Intracellular Pathogens	2	CLT 101 with a minimum grade of "C" or permission of program director, and Reading Proficiency	
CLT 213	Introduction to Clinical Chemistry	2	BIO 208, CHM 101 or CHM 105, CLT 100, MTH 140 or MTH 160, all with minimum grades of "C" or permission of program director	
CLT 202	Clinical Practice I	4	CLT 120 and Reading Proficiency	
CLT 215	Immunohematology	4	CLT 115 with minimum grade of "C" or permission of program director	
Physical Education Elective		1		At least one credit must be an activity
Credit Hours		13		
Spring				
CLT 219	Professional Skills Seminar	1	CLT 202 with a grade of "S" or permission of the program director	Apply for graduation
CLT 217	Clinical Chemistry	5	CLT 213 with a minimum grade of "C" or permission of program director	
CLT 207	Clinical Practice II	4	CLT 202 and Reading Proficiency	
Social & Behavioral Sciences: Civics Requirement		3		
SOC 101 or PSY 200	Introduction to Sociology (MOTR SOCI 101) or General Psychology (MOTR PSYC 100)	3	Reading Proficiency or concurrent enrollment in RDG 079	
Physical Education Elective		1		At least one credit must be an activity
Credit Hours		17		
Total Credit Hours		70		

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.