Clinical Laboratory Sciences Program
Undergraduate Program Curriculum Map
BS in CLS MLT to MLS track
December 2023

Definition of Terms

I = introduce = the level of learning expected of a novice
R = reinforce = the level of instruction and learning expected with students who have been introduced to concepts of skills previously; not the final goal state
M = mastery = the intended state of learning the program aspires to achieve

			Common prerequisites					Major related courses			Major courses											
			BSC 2010+L Biology or BSC 1086+L Anatomy & Physiology II	BSC1085+L Anatomy & Physiology I	CHM 2045/2046 +L General Chemistry I and II	CHM 2210+L Organic Chemistry I	MCB 3020 + L or MCB 2010C General Microbiology	MLS 3194 Clinical Genetics	MLS 3621 Clinical Biochemistry	HSC 3555 Pathophysiology or HSC 3535 Medical Terminolog	MLS 4306C Hematology MLT to MLS	MLS 4461C Diagnostic Microbiology MLT to MLS	MLS 44463C Medical Microbiology MLT to MLS	MLS 4626C Clinical Chemistry I MLT to MLS	MLS 4335C Hemostasis and Thrombosis MLT to MLS	MLS 4221C UA and Body Fluids MLT to MLS	MLS 4631C Clinical Chemistry II MLT to MLS	MLS 4552C Immunohematology MLT to MLS	MLS 4506C Clinical Immunology MLT to MLS	MLS 4193C Molecular Diagnostics MLT to MLS	MLS 4704 Clinical Management Portfolio MLT to MLS
Content	**Demonstrate knowledge and competency in methodological principles in the disciplines within the clinical laboratory**	Demonstrate entry-level medical laboratory scientist knowledge of the disciplines within the clinical laboratory	I							I	I	I	R	I	R	I	R	R	R	R	M
		Identify and apply principles of quality assurance									I	I	R	R	R	R	M	R	R	R	M
		Demonstrate competency performing manual procedures in Hematology, Microbiology, Immunohematology, and Chemistry			I	I	I		I		I	R	R	R	R	R	R	R	R	R	M
Critical Thinking	**Interpret and evaluate clinical procedures and results**	Evaluate patient results and distinguish normal from abnormal results		I				I		I	I	I	R	R	R	R	R	R	R	R	M
		Conduct research using appropriate sources	I					R			R	R		R	R		R	R		R	M
Communication	**Communicate biomedical information in oral and written form employing appropriate technology**	Utilize appropriate professional language when writing or speaking to instructors and colleagues									R	R	R	R	R	R	R	R	R	R	M
		Design a clear and concise work portfolio									I			I							M
		Generate a capstone medical case study that is formatted for professional presentation or publication								R				I			R	R		R	M
Integrity/Values	**Recognize and adhere to professional regulation, ethical standards, and program's code of conduct**	Practice appropriate professional standards of behavior e.g. punctuality, initiative, respect for coworkers and supervisors, confidentiality, and safe laboratory practices									I	I	R	R	R	R	R	R	R	R	M
		Demonstrate appropriate ethical practices in completing assignments	I	I	R	R	R	R	R	R	M	M	M	M	M	M	M	M	M	M	M

Approved April 2024