

Medical Laboratory Science (MLSc) 2026-27

The below is a suggested program summary. Actual offering may differ from semester 1 to 2.

	Semester 1	Prerequisite(s)	Semester 2	Prerequisite(s)
Year 1	BIOL 1010U - Biology I		MATH 1880U - Mathematical Modelling for Health Science	
	CHEM 1010U - Chemistry I		MLSC 1010U - Intro to Medical Laboratory Practice	CHEM 1010U
	HLSC 1200U - Human Anatomy & Physiology I		HLSC 1201U – Human Anatomy & Physiology II	HLSC 1200U
	HLSC 1701U - Information Literacy and Written Communication		MLSC 1110U - Foundations in Clinical Biochemistry	Credit restriction: HLSC 2110U
	Open Elective		MLSC 2130U - Foundations in Clinical Microbiology and Immunology	
Year 2	HLSC 2460U - Pathophysiology I	HLSC 1201U or HLSC 2202U	HLSC 2461U Pathophysiology II	HLSC 2460U
	HLSC 3800U – Intro to Statistics for Health Science	24 Credit Hours	MLSC 2111U - Clinical Biochemistry I	MATH 1880U and MLSC 1010U and MLSC 1110U
	MLSC 2121U - Clinical Hematology I	MATH 1880U and MLSC 1010U	MLSC 2131U - Clinical Microbiology I	MLSC 1010U and MLSC 2130U
	MLSC 3200U - Transfusion Science I	MLSC 1010U and MLSC 2130U	MLSC 3231U - Advanced Histotechnology	MLSC 3230U
	MLSC 3230U - Microanatomy and Histotechnology	MLSC 1010U and MLSC 2130U	MLSC 3220U - Transfusion Science II	MLSC 3200U
Year 3	MLSC 3111U - Clinical Biochemistry II	MLSC 2111U	HLSC 3910U - Research Methods for Health Care Professionals	
	MLSC 3121U - Clinical Hematology II	MLSC 2121U	MLSC 3210U - Effective Leadership and Quality Management	MLSC 2111U and HLSC 3800U
	MLSC 3131U - Clinical Microbiology II	HLSC 2461U and MLSC 2131U Co-req: MLSC 3141U	MLSC 3501U – Simulated Clinical Practice - Pathology	HLSC 2461U and MLSC 3231U
	MLSC 3141U - Molecular Techniques & Complementary Technologies	MLSC 3230U; Co-req: MLSC 3131U OR HLSC 2465U (B grade or higher & 60 Credit Hours)	MLSC 3502U – Simulated Clinical Practice – Microbiology & Molecular Diagnostics	HLSC 2461U and MLSC 3131U and MLSC 3141U
	Open elective		MLSC 3300U - Simulated Clinical Practicum	HLSC 2461U, MLSC 3111U, MLSC 3121U, MLSC 3220U
Year 4	MLSC 4201U – Professional Practice in the Pathology Laboratory	MLSC 3300U and MLSC 3501U and MLSC 3502U Co-req: MLSC 4202U and MLSC 4203U	HLSC 4820U - Interdisciplinary Collaboration	72 Credit Hours
	MLSC 4202U – Professional Practice in the Microbiology Laboratory	MLSC 3300U and MLSC 3501U and MLSC 3502U Co-req: MLSC 4201U and MLSC 4203U	MLSC 4405U Case Studies in Medical Lab Science	MLSC 3300U and MLSC 3501U and MLSC 3502U
	MLSC 4203U – Professional Practice in the Core Laboratory	MLSC 3300U and MLSC 3501U and MLSC 3502U and MLSC 3220U Co-req: MLSC 4201U and MLSC 4202U	Open Elective	
	MLSC 4210U Professional Practice in Clinical Laboratory I	MLSC 3300U; Co-Req: MLSC 4400U	Open Elective	
	MLSC 4400U - Clinical Project I*	HLSC 3910U	MLSC 4401U - Clinical Project II*	MLSC 4400U

*Only with permission only of Program Director and Practicum Coordinator may HLSC 4996U – Research Applications, and HLSC 4997U - Research Applications II, replace MLSC 4400 and 4401.

Program Progression Requirements: A student must achieve a minimum grade of C in all professional medical laboratory courses (MLSC) in order to pass the course. Students who earn a grade lower than a C in any of the courses designated MLSC will be put on program probation, regardless of their overall GPA. A second grade of less than C in any repeated MLSC designated course will result in an academic standing of Program Dismissal. Also, a total of three failures in any combination of required HLSC or MLSC courses will result in an academic standing of Program Dismissal. Effective May 2023, a student who has two withdrawals from a single MLSC course and/or a total of three withdrawals from a combination of required HLSC or MLSC courses will be program dismissed.