

Bachelor of Health Science - Medical Laboratory Science (MLSc) 2020-2021

The below is a suggested program summary. Courses offerings may be scheduled in the Fall, Winter or Spring/Summer terms. Please refer to MyCampus for further details.

Year 1 (2020/21)

Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)
	BIOL 1010U - Biology I			Open Elective	
	CHEM 1010U - Chemistry I			CHEM 1020U - Chemistry II	CHEM 1010U
	HLSC 1200U - Human Anatomy & Physiology I			HLSC 1201U - Anatomy & Physiology II	HLSC 1200U
	HLSC 1701U - Information Literacy and Written Communication for Health Sciences			MLSC 1110U - Foundations in Clinical Biochemistry	
	Open Elective			MATH 1880U - Mathematical Modelling for Health Science	

Year 2 (2021/22)

Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)
	HLSC 2460U - Pathophysiology I	HLSC 1201U or HLSC 2202U		HLSC 2461U - Pathophysiology II	HLSC 2460U
	HLSC 3800U - Critical Appraisal of Statistics in Health Science	24 Credit Hours		HLSC 3910U - Research Methods for Health Care Professionals: Theory and Application	HLSC 3800U
	MLSC 1010U - Introduction to Medical Laboratory Practice	CHEM 1020U and HLSC 1201U and (HLSC 2110U or MLSC 1110U)		MLSC 2111U - Clinical Biochemistry I	MATH 1880U and MLSC 1010U
	MLSC 2130U - Foundations in Clinical Microbiology and Immunology	HLSC 1201U		MLSC 2121U - Clinical Hematology I	MATH 1880U and MLSC 1010U
	CHEM 2130U - Analytical Chemistry for Biosciences OR Health Sciences Electives	CHEM 1020U		MLSC 2131U - Clinical Microbiology I	MLSC 1010U and MLSC 2130U

Year 3 (2022/23)

Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)
	MLSC 3111U - Clinical Biochemistry II	HLSC 2461U and MLSC 2111U		MLSC 3141U - Molecular Techniques and Complementary Technologies	MLSC 3131U and MLSC 3230U or HLSC 2465U (with a B grade or higher and 60 Credit Hours)
	MLSC 3121U - Clinical Hematology II	HLSC 2461U and MLSC 2121U		MLSC 3210U - Effective Leadership and Quality Management in the Clinical Laboratory	MLSC 2111U
	MLSC 3131U - Clinical Microbiology II	HLSC 2461U and MLSC 2131U		MLSC 3220U - Transfusion Science II	MLSC 3200U
	MLSC 3200U - Transfusion Science I**	MLSC 2121U **This course has replaced MLSC 3221U		MLSC 3231U - Advanced Histotechnology	MLSC 3230U
	MLSC 3230U - Microanatomy and Histotechnology	HLSC 2461U and MLSC 1010U and MLSC 2130U		MLSC 3300U - Simulated Clinical Practicum	HLSC 2461U and MLSC 3111U and MLSC 3121U and MLSC 3131U and MLSC 3200U and MLSC 3230U

Year 4 (2023/24)

Done	Semester 1	Prerequisite(s)	Done	Semester 2	Prerequisite(s)
	HLSC 4820U - Interdisciplinary Collaboration	72 Credit Hours		Open Elective	
	MLSC 4111U - Clinical Biochemistry III	MLSC 3300U; Co-Requisite(s): MLSC 4400U		MLSC 4112U - Clinical Biochemistry IV	MLSC 4111U; Co-Requisite(s): MLSC 4401U
	MLSC 4121U - Clinical Hematology III	MLSC 3300U; Co-Requisite(s): MLSC 4400U		MLSC 4122U - Clinical Hematology IV	MLSC 4121U; Co-Requisite(s): MLSC 4401U
	MLSC 4131U - Clinical Microbiology III	MLSC 3300U, and MLSC 3141U; Co-Requisite(s): MLSC 4400U		MLSC 4132U - Clinical Microbiology IV	MLSC 4131U; Co-Requisite(s): MLSC 4401U
	MLSC 4210U - Professional Practice in the Clinical Laboratory I	MLSC 3300U; Co-Requisite(s): MLSC 4400U		MLSC 4211U - Professional Practice in the Clinical Laboratory II	MLSC 4210U; Co-Requisite(s): MLSC 4401U
	MLSC 4220U - Transfusion Science III	MLSC 3220U and MLSC 3300U; Co-Requisite(s): MLSC 4400U		MLSC 4221U - Transfusion Science IV	MLSC 4220U; Co-Requisite(s): MLSC 4401U
	MLSC 4231U - Histopathology I	MLSC 3231U and MLSC 3300U; Co-Requisite(s): MLSC 4400U		MLSC 4232U - Histopathology II	MLSC 4231U; Co-Requisite(s): MLSC 4401U
	MLSC 4400U - Clinical Project I*	HLSC 3910U; Co-Requisite(s): MLSC 4111U, MLSC 4121U, MLSC 4131U, MLSC 4210U, MLSC 4220U, MLSC 4231U		MLSC 4401U - Clinical Project II*	MLSC 4400U; Co-Requisite(s): MLSC 4112U, MLSC 4122U, MLSC 4132U, MLSC 4211U, MLSC 4221U, MLSC 4232U

*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.

Open Electives may be at any level, in any Faculty

Note: Prerequisites listed above are program specific. Please refer to the Undergraduate Academic Calendar for full course details.

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.