



Medical Laboratory Science (MLS) Sample Plan

3-year pre-req sample plan for University of Minnesota Twin Cities program

Disclaimer: Course offerings are subject to change. Consult with your Student Success Coach every semester to ensure you are meeting all graduation requirements. Program requirements are subject to change, refer to the [University of Minnesota Twin Cities Medical Laboratory Sciences program](#) for the most up to date information.

MLS Program Prerequisite

Year 1 - Fall

Course	Title	Credits	Notes
CHEM 1331	Chemical Structure and Processes	4	Fall only
WRIT 1501	Intro to Academic Writing	4	Fall and Spring
CLI 1000	Intro to Academic Inquiry	2	Fall only
MATH 1120 or MATH 1121	Pre-Calculus I or Pre-calculus II	3 3	Fall only (pre-req for MATH 1121) Fall and Spring (pre-req for CHEM 2335)
	Other elective or general education course		

TOTAL _____15_____

Year 1 - Spring

Course	Title	Credits	Notes
BIOL 2311	Integrative Biology (w/ lab)	4	Spring only
CHEM 1333	Chemical Reactivity	4	Spring only
MATH 1121 or MATH 1161	Pre-calculus II or Statistics	3	Fall and Spring (pre-req for CHEM 2335) Fall and Spring
CLI 1712	Personal Develop. and Career Exploration	1	Fall and Spring
Pick 1: PHIL 1441 PSY 1511 SOC 1571	Ethics Introduction to Psychology Introduction to Sociology	3 3 3	Fall and Spring Fall and Spring Fall and Spring

TOTAL _____15_____

Year 2 - Fall

Course	Title	Credits	Notes
BIOL 2331	A & P I (w/ lab)	4	Fall only
CHEM 2131	Organic Chemistry II (Lecture)	3	Fall only

CHEM 2132	Organic Chemistry II (Lab)	1	Fall only
CLI 2713	Career Development and Career Skills in the Health Sciences	1	Fall and Spring
MATH 1161	Statistics (If already taken, add another degree requirement)	3	Fall and Spring
SPAN 1521	Spanish I	3	Fall only

TOTAL ____ **15** ____

Year 2 - Spring

Course	Title	Credits	Notes
BIOL 3332	Anatomy and Physiology II	4	Spring only
CHEM 2335	General Chemistry II (lecture)	3	Spring only
CHEM 2336	General Chemistry II (lab)	1	Spring only
Pick 1: PHIL 1441	Ethics	3	Fall and Spring
PSY 1511	Introduction to Psychology	3	Fall and Spring
SOC 1571	Introduction to Sociology	3	Fall and Spring
SPAN 1522	Spanish II	3	Spring only

TOTAL ____ **14** ____

Year 3 - Fall

Course	Title	Credits	Notes
BIOC 3321	Biochemistry	3	Fall only
BIOL 3311	Genetics	3	Fall only
BIOL 3344	Microbiology (w/ lab)	4	Fall or Spring
Pick 1: PHIL 1441	Ethics	3	Fall and Spring
PSY 1511	Introduction to Psychology	3	Fall and Spring
SOC 1571	Introduction to Sociology	3	Fall and Spring
Pick 1: COMM 2711	Communication in Prof. Contexts	3	Fall and Spring
PUBH 2561	Intro to Public Health	3	Fall and Spring
CLI 3522	Community Collaboratory	3	Fall and Spring

TOTAL ____ **16** ____

Year 3 - Spring

Note: The priority deadline for the [University of Minnesota Twin Cities Medical Laboratory Sciences program](#) is in early February and the final deadline is in April (check website for specific dates).

Course	Title	Credits	Notes
CLI 3712	Capstone Proposal Writing	2	Fall and Spring
BIOL 4364	Immunology	3	Spring only
Pick 2: COMM 2711	Communication in Prof. Contexts	3	Fall and Spring
PUBH 2561	Intro to Public Health	3	Fall and Spring
CLI 3522	Community Collaboratory	3	Fall and Spring

MLSP 5011W	Professional Issues	2	Spring only - Online through UMTC
	Remaining general education courses	3-6	

TOTAL 14-17

Year 3 - Summer

MLSP 5311	Laboratory Techniques	4	In person at UMTC
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Year 4 Fall - MLS Certificate

Certificate Coursework

Year 4 Spring - MLS Certificate

Course	Title	Credits	Notes
	Certificate Coursework		
CLI 4713	Capstone Reflections	1	

Year 4/5 Summer or Fall - MLS Certificate

Clinical Coursework
