



NORTHEASTERN STATE UNIVERSITY

College of Science & Health Professions

2021-2022 Medical Laboratory Science: 2 +2 Pathway

MLT – MLS Degree Completion

First Year – Freshman

Fall Semester	Spring Semester	Summer Semester
Freshman Composition I	Freshman Composition II	American Federal Govt
Human Anatomy and Physiology	General Psychology or sociology	American History
Intro to MLT	General Chemistry I	
Phlebotomy	Microbiology	
College Algebra		
Total Hours 15	Total Hours 14	Total hours 6

*MLT Program at Community College, Second Year – Sophomore

Fall Semester	Spring Semester	Summer Semester
Basic Hematology	Clinical Chemistry II	Clinical Practice II
Clinical Chemistry I	Clinical Microbiology	
UA/ BB/Immunology	Clinical Practice I	
Total Hours 15	Total Hours 14	Total Hours 5

Additional prerequisite: CHEM 2004 Essentials of Organic Chemistry (Offered online at NSU) or Organic Chemistry I

Third Year – Junior

Fall Semester	Spring Semester	Summer Semester
MLS 4124 Pathogenic Microbiology	MLS 4822 Laboratory Management	
MLS 4623 Clinical Lab Operations	MLS 4226 Clinical Virology/Parasitology/Mycology	
MLS 4812 Research Methods in MLS	MLS 4613 Communications in MLS	
MLS 4013 Concepts in Immunology	MLS 4562 Clinical Immunology/Serology (1 st 8 weeks)	
Total Hours 12	Total Hours 13	Total Hours 0

Fourth Year – Senior

Fall Semester	Spring Semester	Summer Semester
MLS 4464 Adv Clinical Microbiology	MLS 4424 Adv Clinical Chemistry	MLS 4912 Seminar in MLS
MLS 4133 Clinical Lab Genetics	MLS 4334 Adv Clinical Hematology	MLS 4842 Clinical Practicum III
MLS 4712 Urinalysis and Body Fluids (1 st 8 weeks)	MLS 4513 Molecular Diagnosis	
MLS 4722 Coagulation (2 nd 8 weeks)	MLS 4825 Clinical Practicum II	
MLS 4572 Clinical Immunohematology		
MLS 4332 Clinical Practicum I		
Total Hours 15	Total Hours 16	Total Hours 4

Total Degree Plan Hours 124

*For AAS MLT degree recipients, additional general education courses are required for a BS in MLS. Please refer to DegreeWorks.

**Computer literacy must be demonstrated. There are other ways to satisfy this requirement. Consult with your advisor.

For further information, contact Dr. Sallie Ruskoski, Program Director, 918-449-6471, ruskosks@nsuok.edu