

SCSU BS Medical Laboratory Science (MLS) Completion Program (2+2) Medical Laboratory Science Major Program Director Louise Millis, lmillis@stcloudstate.edu/320-308-5438		
Medical Laboratory Technician (MLT) Curriculum Map below (1st four semesters) with Pre-Requisite Course Work (course work not completed in students MLT program is completed as part of the MLS Completion (2+2) Program MLS Completion Program Course Work follows MLT Curriculum Map		
Requirements for Admission to the MLS Completion Program Current MLT Certification Employment as an MLT in a Clinical System that will Support their Clinical Internship		
First Semester	Second Semester	
¹ BIOL 103 (3cr) Human Biology CHEM 210 (4cr) General Chemistry I MATH 112 (3cr) College Algebra MLS 200 (2cr) Medical Laboratory Basics PHIL 194 (3cr) Clinical Reasoning Total semester credits= 15	BIOL 151 (4cr) Cell Function and Inheritance CHEM 211 (4cr) General Chemistry 2 NHCC ENGL 1201 (4cr) College Writing I MLS 303 (2cr) Fund. Medical Immunology MLS 306 (2cr) Fund. Medical Microscopy & Urinalysis Total semester credits=16	
Third Semester	Fourth Semester - MLT-level clinical rotations	
MLS 301 (4cr) Fund. Medical Hematology MLS 302 (4cr) Fund. Medical Chemistry MLS 304 (4cr) Fund. Medical Microbiology MLS 305 (3cr) Fund. Medical Immunohematology Total semester credits=15	MLS 301 (2cr) Fund. Medical Hematology MLS 302 (2cr) Fund. Medical Chemistry MLS 304 (2cr) Fund. Medical Microbiology MLS 305 (2cr) Fund. Medical Immunohematology MLS 306 (2cr) Fund. Medical Phlebotomy & Urinalysis CMST 192 (3cr) Introduction to Communication Studies Total semester credits=13	
Full-Time, Two-Year Curriculum and Suggested Sequence ² <i>Students must complete SCSU Graduation Requirements including all 10 Goal areas of the Liberal Education Courses (MnTransfer), below are two courses that are needed, the ENGL is covered under Goal 1, the STATs is a program requirement</i>		
ENGL 191 (4cr) Introduction to Rhetorical & Analytical Writing – student may need ENGL 291 (2cr) Introduction to Analytical and Rhetorical Writing (for transfer students, to complete ENGL requirement) ¹ STAT 193 (3cr) Statistical Thinking		
Fifth Semester	Sixth Semester	Summer Session
³ CHEM 240 (4cr) Basic Organic Chemistry MLS 310 (2cr) Anatomy & Physiology for MLS majors MLS 407 (2cr) Lab. Management/Edu Total semester credits=8	³ CHEM 241 (4cr) Basic Biochemistry MLS 312 (2cr) Molecular Pathology for MLS Majors MLS 406 (2cr) Clinical Microscopy Total semester credits=8	MLS 403 (2cr) Clinical Immunology Total semester credits=2
Seventh Semester	Eighth Semester	Summer/Fall/Beyond MLS-level clinical internship
MLS 401 (2cr) Clinical Hematology MLS 404 (3cr) Clinical Microbiology Total semester credits=5	MLS 402 (3cr) Clinical Chemistry MLS 405 (3cr) Clinical Immunohematology Total semester credits=6	MLS 401 (2cr) Clinical Hematology MLS 402 (2cr) Clinical Chemistry MLS 404 (2cr) Clinical Microbiology MLS 405 (2cr) Clinical Immunohematology MLS 406 (1cr) Urinalysis and Body Fluids MLS 407 (2cr) Lab. Management/Edu Total semester credits=12

¹BIOL 202 A&PI +BIOL 204 A&PII can substitute. STAT 239 Statistical Methods I for Natural Sciences can substitute.

²SCSU graduation requirements finalized by Records and Registration include the following:

1. Completion of 40 liberal education courses, supporting sciences and math courses, and all MLS courses.
2. A student shall earn a minimum of 30 semester credits from St Cloud State University.
3. A student must complete 40 credits in upper-division (300-400) courses.

³Chem 240 Organic chemistry and Chem 241 can be taken prior to admittance to the MLS program. Note completion of these classes does not guarantee admittance.