

SCSU BS Medical Laboratory Science (MLT to MLS/2+2) Program	
School of Health and Human Services: Phone 320-308-4894 or www.stcloudstate.edu/shhs	
Medical Laboratory Science Program Director Louise Millis 320-308-5438 lmillis@stcloudstate.edu	
First Semester *	Second Semester
BIOL 103 (3cr) Human Biology - [NHCC Biol 1120 (3 cr) Human Biology] CHEM 210 (4cr) General Chemistry I - [NHCC Chem 1061 (4 cr) Principles in Chemistry 1I] MATH 112 (3cr) College Algebra - [NHCC Math 1150 (3 cr) College Algebra] MLS 200 (2cr) Medical Lab Basics & Instrumentation - [NHCC MLT 1000 (1 cr) Clinical Lab Basics, MLT 1200 (1 cr) Clinical Lab Instrumentation] ¹ PHIL 212 (3 cr) Moral Problems and Theories - [NHCC PHIL 1020 (3 cr) Ethics]	BIOL 151 (4cr) Cell Function and Inheritance - [NHCC Biol 1001 (4 cr) Biology I] CHEM 211 (4cr) General Chemistry 2 - [NHCC Chem 1062 (4 cr) Principles of Chemistry II] NHCC ENGL 1201 (4 cr) College Writing I - note SCSU ENGL 100 (3 cr) equivalent MLS 303 (2 cr) Medical Immunology - [NHCC MLT 1250 (2 cr) Clinical Immunology] MLS 306 (2cr) Medical Microscopy & Urinalysis - [NHCC MLT 1100 (2 cr) Urinalysis & Body Fluids]
Total semester credits= 15	Total semester credits=16
Third Semester	Fourth Semester - <i>MLT-level clinical rotations</i>
MLS 301 (4 cr) Medical Hematology - [NHCC MLT 2050 (4 cr) Clinical Hematology] MLS 302 (4 cr) Medical Chemistry - [NHCC MLT 2100 (4 cr) Clinical Chemistry] MLS 304 (4 cr) Medical Microbiology - [NHCC MLT 2080 (4 cr) Clinical Microbiology] MLS 305 (3 cr) Medical Immunohematology - [NHCC MLT 2150 (3 cr) Clinical Immunohematology]	MLS 301 (3 cr) Applied Medical Hematology - [NHCC MLT 2320 (2 cr) Applied Hematology], MLT 2330 (1 cr) Applied Coagulation] MLS 302 (2 cr) Applied Medical Chemistry - [NHCC MLT 2380 (2 cr) Applied Chemistry] MLS 304 (2 cr) Applied Medical Microbiology - [NHCC MLT 2350 (2 cr) Applied Microbiology] MLS 305 (2 cr) Applied Medical Immunohematology - [NHCC MLT 2360 (2 cr) Applied Immunohematology] MLS 306 (2 cr) Applied Medical Phlebotomy & Urinalysis - [NHCC MLT 2310 (1 cr) Applied Phlebotomy, MLT 2340 (1 cr) Applied Urinalysis] ¹ CMST 192 (3 cr) Introduction to Communication Studies - [NHCC COMM 1110 (3 cr) Principles of Interpersonal Communications]
Total semester credits=15	Total semester credits=14
<i>MLT's Employed in a Clinical Laboratory & Certified may apply to SCSU for completion of the MLS program at this point. Required Liberal Education Class/(MN Transfer) should be fit in during the Summer month¹. See catalog for details</i>	
Fifth Semester	Sixth Semester
CHEM 240 (4cr) Basic Organic Chemistry MLS 310 (2 cr) Anatomy & Physiology for MLS majors MLS 407 (1 cr) Advanced Laboratory Management and Education ¹ ENGL 191 (4cr) Introduction to Rhetorical & Analytical Writing - [NHCC ENGL 1202 (2 cr) College Writing II – note NHCC 1201 (4 cr) required for fulfillment]	CHEM 241 (4 cr) Basic Biochemistry MLS 312 (3 cr) Molecular Pathology for MLS Majors MLS 406 (1cr) Advanced Clinical Urinalysis and Body Fluids
Total program semester credits= 7	Total semester program credits=6
Seventh Semester	Eighth Semester
MLS 401 (2cr) Advanced Clinical Hematology MLS 403 (1cr) Advanced Clinical Immunology and Molecular Genetics MLS 404 (2cr) Advanced Clinical Microbiology	MLS 402 (2cr) Advanced Clinical Chemistry MLS 405 (2cr) Advanced Clinical Immunohematology STAT 229 (3cr) Statistics for the Physical Sciences – [NHCC MATH 1130 (3 cr) Elementary Statistics]
Total semester program credits=8	Total semester credits=7
9th Semester and Beyond <i>MLS-level clinical rotations</i>	
Note: clinical rotation offerings and timing are at the discretion of the students employer and likely will take more than one semester to complete	
MLS 401 (2cr) Advanced Applied Clinical Hematology MLS 403 (1cr) Adv. Applied Clinical Immunology and Molecular Genetics MLS 405 (2cr) Advanced Applied Clinical Immunohematology MLS 407 (1cr) Adv. Applied Clinical Lab. Management and Education	MLS 402 (2cr) Advanced Applied Clinical Chemistry MLS 404 (2cr) Advanced Applied Clinical Microbiology MLS 406 (1cr) Advanced Applied Clinical Urinalysis and Body Fluids

*Students may apply for entrance into the MLS major after completion of Chem 210 and Math 112 with grades of 2.0 (C) or above. Students may not register for 300 MLS courses prior to acceptance into the major. Students may not register for 400-level MLS courses prior to acceptance into a clinical program.

¹Refer to Goal Areas for requirements.

Contact Information

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