




BS in Medical Laboratory Science Plan File (PPF)
Category 1

 Degree Requirement	Required Semester Credits	CCAF Transfer Credits	Course Credits to take at Thomas University
Core/Area of Focus	60	60	60
MTH 250 Introduction to Statistics	3		3
CHM 101 General Chemistry I	4		4
CHM 102 General Chemistry II	4		4
CHM 107 Survey of Organic Chemistry	4		4
MLS 350 Orientation to Online Medical Laboratory Science	1		1
MLS 405 Parasitology, Mycology, and Virology (16 week)	3		3
MLS 411 Urinalysis and Body Fluids II	3		3
MLS 414 Clinical Immunology and Molecular Diagnostics	3		3
MLS 421 Clinical Microbiology II (16 week)	4		4
MLS 431 Clinical Hematology and Coagulation II (16 week)	4		4
MLS 441 Clinical Immunohematology II (16 week)	4		4
MLS 451 Clinical Chemistry II (16 week)	4		4
MLS 452 Research Methods in Medical Laboratory Science	3		3
MLS 460 Senior Seminar (16 week)	3		3
MLS 470 Laboratory Management and Supervision	3		3



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MLS 495 Advanced Clinical Practicum (16 week) - OR- MLS 496 Advanced Clinical Laboratory Concepts (16 week)	3		3
Science Elective: (Choose two) BIO 261 Human Anatomy and Physiology I BIO 262 Human Anatomy and Physiology II BIO 409 Pathophysiology BIO 310 Medical Molecular Cell Biology BIO 312 Medical Genetics CHM 201 Medical Biochemistry	9		9
General Education			
ENG 101 Composition I		3	
ENG 102 Composition II		3	
MTH 120 Mathematical Modeling – or – MTH 140 College Algebra		3	
Creativity Elective: ART 210, 212, 250, 270, MUS 291 or 390, THE 250		3	
Inquiry Elective: BUS205, 215, 290, CRJ 105, 150, 210, 230, 250, 255, EDU 200, PSY 125, 201, 205, 230, 265, RHS 220, SOC 201, SWK 201, GEO 201		3	
Electives			
General elective credit		45	
Total Credits Required Bachelor of Science in Medical Lab Science Degree	120	60	60

TU MLS 2+2 program is a bridge program designed for the Medical Laboratory Technician (MLT). A student must possess an Associate Degree from a NAACLS accredited MLT program and national MLT certification.

Evidence of the following must be provided upon admission:

- Official transcript of coursework from each college or university attended.
- Documentation of national MLT certification.
- On-going employment in a medical laboratory that meets appropriate testing requirements and is willing to serve as a clinical site. TU does not locate clinical sites for the 2+2 students. It is



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the responsibility of the applicant to secure the placement; however, TU will work with the lab to establish an affiliation agreement.

- MLS 496 is an alternate option to qualified candidates for MLS 495 and requires Program Director approval.

Total degree program = 120 CH of which no more than 60 are required to be taken through TU. Actual CCAF transfer credits may differ from those shown in this generic degree plan depending on the number of general education courses taken to complete the CCAF AS degree, or AAS degree credit hours that are awarded for "core" course requirements. Any adjustment will honor the 60 semester hour credit guarantee of the CCAF program. Students must complete the CCAF degree requirements with a minimum 2.75 GPA.

TU accepts 45 semester hours of transfer requirements from CCAF as Transfer Credit.