



Department of Clinical Laboratory Sciences
 MLT to Online BS in Medical Laboratory Science Career Ladder Curriculum

Associate Degree in Medical Laboratory Technology from a NAACLS Accredited Institution
(credit hours from this and all previous coursework must be transferred to MU for evaluation—some previously completed coursework may satisfy some of the core curriculum requirements listed below. The MLS program director will evaluate your transcript once all previous coursework has been transferred and advise on specific courses that will need to be taken to meet core requirements)

Additional Career Ladder Coursework for BS in Medical Laboratory Science

Core Curriculum requirements: Transfer students with 26 or more college credits must complete one CT course in Core I, all of Core II and the additional University requirements. Students enrolled at Marshall University prior to Summer 2010 who change majors and/or colleges may choose to remain under their current general education requirements or they may opt into the Core Curriculum under the same terms as transfer students. Core II may be fulfilled through a combination of transfer and Marshall credit hours. Individual advising will occur upon admission to the BS in MLS program. More information about the core curriculum can be obtained through this link: [MU General Education Core](#)

University Core Curriculum Requirements (required for all MU Bachelor degrees)			Hours
Critical Thinking Elective	3	Social Science	3
Composition	6	Humanities	3
Communication	3	Fine Arts	3
Math	3	Writing Intensive Course Elective	3
Physical or Natural Science	4	Multicultural or International Elective	3
BS in Medical Laboratory Science specific required courses			
CHM 254 or 327 Introduction to Organic Chem	3	STA (previously MTH) 225, Statistics	3
ECN 200 or 250 Economics	3	MLS electives***	6
CLS 400 Advanced Clinical Chemistry	2	CLS 310 Clinical Immun. And Mol. Diagnostics	3
CLS 410 Advanced Immunohematology	2	CLS 466 Diagnostic Physiology	2
CLS 420 Advanced Clinical Microbiology	2	CLS 468 Senior Research/Capstone	2
CLS 430 Advanced Hematology	2	CLS 472 Advanced Clinical Practicum I	3
CLS 460 Laboratory Mgt. and Education	3	CLS 473 Advanced Clinical Practicum II	3
CLS 499 Seminar in Laboratory Medicine	2	CLS 464 Laboratory Instrumentation	3

****BS in Medical Laboratory Science = minimum of 120 total credit hours**

***MLS electives are meant to be courses that enrich the MLS student and specific options are available for students. Students must choose one MLS science elective and one MLS research/management elective.

++ MLS science electives are: CHM 345 Analytical Chemistry, CHM 365 Biochemistry, any upper division BSC 300/400 level elective, PH 475 Communicable and Non-communicable Diseases and PH 105 Epidemiology.

++MLS research/management electives are: HP 320 Introduction to Research in Health Professions, HP 420 Allied Health Administration, or PH 270 Global Health.