



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

Required for Admission: Associate Degree in Medical Laboratory Technology from a NAACLS Accredited Institution or approved military training program.

(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. You can get an idea of how your previous course may transfer by visiting the [Transfer Equivalency Website](#))

Additional Required Coursework

Transfer students with 30 or more college credits are exempt from FYS and one CT course, but must complete one CT course, all of Core II and the additional University requirements. Effective Fall 2018, transfer students with 60 or more college credits are exempt from all Core I (FYS and both CT courses) but must complete all of Core II and the additional University requirements. Core II may be fulfilled through a combination of transfer and Marshall credit hours.

For more information on Core Curriculum requirements, visit the [General Education website](#)

University Core Curriculum Requirements (required for all MU Bachelor's degrees)

| | | | Hours |
|-------------------------------|---|---|-------|
| Critical Thinking Elective*** | 3 | Social Science | 3 |
| Composition | 6 | Humanities | 3 |
| Communication | 3 | Fine Arts | 3 |
| Math | 3 | Writing Intensive Course Electives*** | 6 |
| Physical or Natural Science | 4 | Multicultural or International Elective | 3 |

BS in Medical Laboratory Science specific required courses

| | | | |
|--|---|---|---|
| STA 225, Statistics | 3 | ECN 200 or 250, or MGT 320 Economics | 3 |
| Only offered in fall semester | | Only offered in spring semester | |
| CHM 327 Introduction to Organic Chemistry | 3 | CLS 310 Clin. Immun. & Mol. Diagnostics | 3 |
| CLS 320 Advanced Topics in CLS | 3 | CLS 466 Diagnostic Physiology (WI) *** | 3 |
| CLS 460 CLS Management and Education | 3 | | |
| CLS 499 Seminar in Clinical Laboratory Science | 2 | | |

All courses below can only be taken in the final year of the program

| Final Fall Semester only | | Final Spring Semester of Graduation only | |
|---|---|--|---|
| CLS 400 Advanced Clinical Chemistry*** | 2 | CLS 464 Laboratory Instrumentation | 3 |
| CLS 410 Advanced Immunohematology*** | 2 | CLS 468 CLS Research (Capstone/WI) ** | 3 |
| CLS 420 Advanced Clinical Microbiology*** | 2 | CLS 473 Advanced Clinical Practicum I | 3 |
| CLS 430 Advanced Clinical Hematology | 3 | CLS 473 Advanced Clinical Practicum II | 3 |

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

***All Critical Thinking Electives waived if student transfers more than 60 credit hours

***These courses are all 8 weeks courses only offered in the final fall term of the program. CLS 400 is 1st 8 weeks, CLS 410 2nd 8 weeks, CLS 420 2nd 8 weeks. MLS electives are meant to be courses that enrich the MLS student and specific options are available for students.

***CLS 466 and 468 are both designated as writing intensive courses that will fulfill the required 6 credit hours for the University core curriculum. CLS 468 is also the capstone course required for the core curriculum.