The Certificate in Medical Laboratory Sciences is designed specifically for students who are enrolled in the University’s MLS program from one of our academic affiliated schools, as well as for students who already have a BS/BA degree (or higher) and are seeking to become eligible for the Board of Certification exam.

**MLS Prerequisite Course Requirements**

Transfer students should consult our website at www.alliedhealth.umn.edu/mls to view course equivalences

### Science Prerequisites:

**Biology**
- BIOL 1009 General Biology
- PHSL 3051 Human Physiology

**Mathematics**
- MATH 1142 Short Calculus OR MATH 1271 Calculus

**Statistics**
- STAT 3011 Introduction to Statistical Analysis OR ESPY 3264 Basic and Applied Statistics

**Chemistry**
- CHEM 1061 and CHEM 1065 Chemistry Principals I with Lab
- CHEM 1062 and CHEM 1066 Chemistry Principals II with Lab
- CHEM 2301 Organic Chemistry I
- CHEM 2302 Organic Chemistry II

### Foundation Science Prerequisites:

- VBS 2032 OR MICB 3301 Microbiology with Lab
- GCD 3022 OR BIOL 4003 Genetics
- BIOC 3021 Biochemistry
- MLSP 5511 Immunobiology OR MICB 4131 Immunology
- MLSP 5011W Professional Issues
- MLSP 5311 Laboratory Techniques

Register for a virtual Information Session!
Admissions Requirements

- GPA requirement: 2.75 (3.0 preferred)
- All science and foundation science prerequisite courses must be completed with a "C" or higher,* as well as all liberal education (LE) requirements, by the end of the spring semester of admissions year (two upper division writing courses will be completed during MLS program)

*S/N grades will be accepted for prerequisite courses taken between Spring 2020 - Spring 2021. A-F grades are preferred.

Certificate Curriculum

Summer Semester
- MLSP 5011W Professional Issues in the Healthcare Community
- MLSP 5311 Fundamental Biomedical Laboratory Techniques
- MLSP 5511 Immunobiology (if not completed prior to enrollment)

Year 4
Fall
- MLSP 5012 Education Methods and Interprofessional Practice
- MLSP 5013 Scholarly Inquiry and Analysis in MLS
- MLSP 5111 Microbiology I
- MLSP 5112 Microbiology I Lab
- MLSP 5211 Hematology/Hemostasis I
- MLSP 5212 Hematology/Hemostasis I Lab
- MLSP 5313 Chemical Analysis in Health & Disease

Year 4
Spring
- MLSP 5113 Microbiology II
- MLSP 5213 Hematology/Hemostasis II
- MLSP 5214 Hematology/Hemostasis II Lab
- MLSP 5312 Body Fluid Analysis
- MLSP 5513 Transfusion Medicine
- MLSP 5514 Transfusion Medicine Lab

Clinical Experience
- MLSP 5014W Lab Operations and Management
- MLSP 5701 Clinical Experience in Microbiology
- MLSP 5702 Clinical Experience in Hematology and Hemostasis
- MLSP 5703 Clinical Experience in Clinical Chemistry and Urinalysis
- MLSP 5704 Clinical Experience in Transfusion Medicine

Visit [www.alliedhealth.umn.edu/mls](http://www.alliedhealth.umn.edu/mls) to learn more about the Medical Laboratory Sciences program. For additional questions, please contact [cahpinfo@umn.edu](mailto:cahpinfo@umn.edu).