Ideal for students who already have a Medical Laboratory Science professional credential, the master's degree in Biomedical Laboratory Sciences provides additional theory, research and practice knowledge in the field, and prepares candidates for specialty certifications in areas like Molecular Biology or Microbiology. This degree option reflects the interdisciplinary nature of laboratory practice and research with an emphasis on critical reasoning and innovative approaches to laboratory operations, leadership, research and evidence-based practice, as well as laboratory method development and validation.

Admissions Requirements

- GPA requirement: 3.0
- Completion of a baccalaureate degree from an accredited institution in medical laboratory sciences or a related field
- MT or MLS Certification by ASCP*
- Minimum of 2 years' work experience in a clinical or reference laboratory
- Transcripts from the ASCP*

*ASCP categorical or other certifications possible

Visit our website to learn more!
### MS in Biomedical Laboratory Sciences Curriculum

#### Fall
- MLSP 6000 Intro to Grad Studies in BLS
- MLSP 6401 Fundamentals of Molecular Diagnostics
- MLSP 6620 Advanced Concepts in MLS

#### Spring
- EPSY Intro to Statistical Methods OR PUBH 6450 Biostatistics
- MLSP 7005 Research & Scholarly Inquiry
- Track Choice

Note: MLSP 6610 Integrated Concepts in MLS is required for students without MTASCP or MLS(ASCP)

#### Track Choices/Focus Areas of Study

**Students can follow a pre-approved Track or build their own program of study with their faculty advisor and MLSP graduate program committee approval. Students will need to take at least three (3) didactic courses (9 credits) in a chosen focus area. Both the Advanced Practicum course and Thesis focus will also be in the Track Choice topic area.**

**Molecular Diagnostic Track**
- MLSP 6402 Molecular Diagnostics I Laboratory*
- MLSP 6410 Molecular Diagnostics II
- MLSP 6411 Molecular Diagnostics II Laboratory*
  *On campus component

**Laboratory Management Track**
- MLSP 6024 Advanced Laboratory Operations and Management
- MLSP 6044 Laboratory Licensure and Regulatory Issues
- One additional elective course of choice

**Education/Teaching Track**
- MLSP 6012 Education Methods in BLS
- MLSP 6015 Accreditation Processes for Laboratory Science Programs
- One additional elective course of choice

**Research Track**
- PUBH 6450 Biostatistics I *(core requirement)*
- PUBH 6451 Biostatistics II
- One additional elective course of choice

**Advanced Laboratory Science Track**
- MLSP 6410 Molecular Diagnostics II
- MLSP Advanced Topic I*
- MLSP Advanced Topic II*
  *Advanced Topic courses include Chemistry, Hematology, Microbiology, and Transfusion Medicine

**Public Health Track**
- PUBH 6450 Biostatistics I *(core requirement)*
- PUBH 6250 Foundations of Public Health
- PUBH 6320 Fundamentals of Epidemiology

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