

**Master of Science (MS) in Biomedical Laboratory Sciences
Suggested Course of Study Completely Online – Generic Advising Plan**

| FALL | COURSE TITLE | CR | 8 | Notes |
|---------------|---------------------------------------|-----------|-----------|-----------------|
| MLSP 6000 | Intro to Grad Studies in BLS | 2 | | Core |
| MLSP 6401 | Fundamentals of Molecular Diagnostics | 3 | | Core |
| MLSP 6620 | Advanced Concepts in MLS | 3 | | Core |
| | | | | |
| SPRING | COURSE TITLE | CR | 8 | |
| | *Statistics | 3 | | Core |
| MLSP 7005 | Research & Scholarly Inquiry | 2 | | Core |
| | Track Choice | 3 | | Track Choice |
| | | | | |
| FALL | COURSE TITLE | CR | 8 | |
| MLSP 7010 | Research Seminar | 2 | | Core |
| | Track Choice | 3 | | Track Choice |
| | Track Choice | 3 | | Track Choice |
| | | | | |
| SPRING | COURSE TITLE | CR | 6 | |
| MLSP 7999 | Thesis Project | 4 | | Core / Arranged |
| MLSP 6801 | Advanced Practicum I Track Choice | 2 | | Core / Distance |
| | | | | |
| | TOTAL CREDITS | | 30 | |

*** Statistics - Inferential statistics - Choose 1**

- EPSY 5261 – Introduction to Statistical Methods (3cr)
- PUBH 6450 – Biostatistics I (4cr)

Tracks Choices

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.

- Tracks in advanced laboratory science sub-disciplines: Transfusion Medicine, Clinical Chemistry, Hematology, or Clinical Microbiology
- Specialty track areas: Molecular Biology, Management, Education, Research, or Public Health

Sample Track Choices

| Advanced Laboratory Sciences Tracks | Laboratory Management Track |
|--|---|
| MLSP 6410 Molecular Diagnostics II (3cr) | MLSP 6024 Advanced Laboratory Operations & Management (3cr) |
| MLSP Advanced Topic I @ (3cr) | MLSP 6044 Laboratory Licensure and Regulatory Issues (3cr) |
| MLSP Advanced Topic II @ (3cr) | <i>Additional Track Choice with program approval</i> |

@ *Advanced Clinical Chemistry; Hematology, Microbiology, or Transfusion Medicine*

| Education/Teaching Track | Research Track |
|---|--|
| MLSP 6012 Education Methods in BLS (3cr) | PUBH 6450 Biostats I for Stats Core (4cr) |
| MLSP 6015 Accreditation Processes for Laboratory Science Programs (3cr) | PUBH 6451 Biostats II (4cr) |
| <i>Additional Track Choice with program approval</i> | <i>Additional Track Choice with program approval</i> |

| Molecular Diagnostics Track | Public Health Track |
|---|--|
| MLSP 6402 Molecular Diagnostics I Laboratory (2cr) # | PUBH 6450 Biostats I for Stats Core (4cr) |
| MLSP 6410 Molecular Diagnostics II (3cr) | PUBH 6250 Foundations of Public Health (2cr) |
| MLSP 6411 Molecular Diagnostics II Laboratory (2cr) # | PUBH 6320 - Fundamentals of Epidemiology (3cr) |
| # <i>Requires on campus residency</i> | |