MASTER OF SCIENCE IN HEALTH SCIENCES IN THE FIELD OF BIOMEDICAL LABORATORY SCIENCE

The master of science in health sciences (MSHS) in biomedical laboratory science provides high-quality education for health professionals through the use of a creative and innovative online format. The curriculum includes a combination of courses focused on leadership, research, current biotechnology, and ethics. The program prepares students with theoretical knowledge and practical skills for management or leadership positions within the clinical laboratory, research positions in public health microbiology laboratories, biotechnology companies, government agencies, blood banks, and research institutes.

Students may choose to include one of three concentrations in their program of study. The concentration in immunohematology and biotechnology has been designed to provide certified blood bankers a strong foundation in transfusion medicine as well as molecular biology and biotechnology. The concentration in medical laboratory science is geared toward MLS certified individuals who work as generalists or want an MLS-focused program of study. The concentration in translational microbiology is ideal for individuals working as clinical microbiologists who want a program of study with a microbiology-focus.

Visit the program website (https://healthsciencesprograms.gwu.edu/programs/mshs-in-biomedical-laboratory-science-online/) for additional information.

ADMISSIONS

<table>
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<tr>
<th>Admission Deadlines:</th>
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<td>Fall - July</td>
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<td>Spring - November</td>
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<td>Summer - March</td>
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</table>

Standardized Test Scores: Not required.

Recommendations required: Two (2) recommendations.

Prior Academic Records: Transcripts required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Transcripts must be forwarded in their original sealed envelopes.

If academic records are in a language other than English, a certified English language translation must be provided in addition to the original transcripts; translations alone will not be accepted.

Supporting documents not submitted online should be mailed to:

Health Sciences Office of Online Admissions
851 Trafalgar Court
Suite 420 West
Maitland, FL 3275

Alternatively, official electronic transcripts can be sent to acsonline@gwu.edu

Contact for questions:

hsphora@gwu.edu
202-994-0384 (phone)
REQUIREMENTS

The following requirements must be fulfilled: 36 credits, which may include either 15 credits in required courses and completion of a 21-credit concentration; or, for students who do not wish to pursue a concentration, 15 credits in required courses and 21 credits in graduate-level HSCI or MLS courses selected in consultation with the program director.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MLS 6244</td>
<td>Research Ethics and Integrity</td>
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<tr>
<td>MLS 6245</td>
<td>Current Topics in Medical Laboratory Science</td>
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<tr>
<td>MLS 6246</td>
<td>Capstone Project</td>
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<tr>
<td>HSCI 6263</td>
<td>Biostatistics Translational Research</td>
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<tr>
<td>MLS 6159</td>
<td>Leadership in Laboratory Medicine</td>
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Non-concentration and concentration options

Program without a concentration—21 credits in graduate-level HSCI or MLS elective courses approved by the program director.

Program with a concentration—21 credits in required and elective courses taken in one of the following concentrations:

Immunohematology and biotechnology concentration

Required

- MLS 6219 Molecular Biology
- MLS 6213 Seminar in Immunohematology
- MLS 6141 Advanced Immunology and Serology
- MLS 6218 Genetics
- MLS 6217 Medical Biotechnology

Electives

- Electives 7 credits in graduate-level HSCI or MLS courses approved by the program director.

Medical laboratory science concentration

- MLS 6242 Molecular Pathology
- MLS 6160 Data Analytics and Research Methods in Laboratory Medicine
- MLS 6243 Education and Assessment in MLS

MLS 6132 Molecular Epidemiology

ML 6158 Advanced Laboratory Management and Operations

Electives

6 credits in graduate-level HSCI or MLS courses approved by the program director.

Translational microbiology concentration

Required

- MLS 6141 Advanced Immunology and Serology
- MLS 6132 Molecular Epidemiology
- MLS 6216 Microbial Pathogenesis
- MLS 6160 Data Analytics and Research Methods in Laboratory Medicine
- MLS 6217 Medical Biotechnology

Electives

6 credits in graduate-level HSCI or MLS courses approved by the program director.