The master of science in health sciences 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://smhs.gwu.edu/bulletin/smhs/mshs-biomedical-laboratory-science/) for additional information.

ADMISSIONS

Admission

Fall - July 20

Spring - December 1

Summer - March 20

Standardized Test Scores: Not required.

Recommendations: 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.

Statement of Purpose: Please include a 250-500 word essay describing your reasons for undertaking study at the George Washington University, your academic objectives, career development plan, and related qualifications, including collegiate, professional, and community activities, relevant to your program of interest. Include any substantial accomplishments not already mentioned on the application form.

Degree and GPA Requirements: A bachelor’s degree from a regionally accredited college or university, with a 3.0 GPA or above on a 4.0 scale.

Additional Requirements: National certification as a Medical Laboratory Technician (MLT), Medical Technologist (MT), Clinical Laboratory Scientist (CLS), a Medical Laboratory Scientist (MLS) or Blood Banking Technologist/ Specialist, or Microbiology Technologist/Specialist for medical laboratory science and immunohematology and biotechnology concentrations. No certification is required for the generalist or translational microbiology concentration.

International Applicants: Official transcripts from institutions outside the U.S. must be accompanied by an official transcript evaluation from an accredited independent evaluating agency. Please be sure you request a detailed evaluation that includes all course titles, credit hours, grades, U.S. degree equivalency, grade-point averages (GPA), and date of degree conferral. Please see the list of acceptable foreign credential evaluation services (https://www.naces.org/members/).

Applicants who are not U.S. citizens are required to submit official test scores for either Test of English as a Foreign Language (TOEFL) or Pearson’s Test of English (PTE), Academic the academic International English Language Testing System (IELTS) or the Duolingo English Test (DET). The following are the minimum scores for admission consideration: TOEFL: 250 computer-based or 100 Internet-based, PTE: overall score of 68, IELTS: an overall band score of 7.0, with no individual band score below 6.0, or DET overall score of 120.
International applicants who meet the following conditions may be considered for admission without submitting TOEFL, PTE or IELTS or DET scores:

- They are a citizen of countries where English is the official language (as identified by GW ISO list of Exempt countries) OR;
- They hold at least a bachelor's degree from a country where English is the official language as well as language of instruction OR;
- They hold at least a bachelor's degree from an institution accredited by a U.S. regional accrediting agency.

Supporting documents not submitted online should be mailed to:

George Washington University
ATTN: Transcript Processing Center
1415 W 22nd St.
Suite 220
Oak Brook, IL 60523

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

Contact for questions:
hsphora@gwu.edu
202-994-0384 (phone)
202-994-0870 (fax)
Hours: 9 am to 5 pm, Monday through Friday

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 elective courses selected in consultation with the program director.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td></td>
<td><strong>Required core courses</strong></td>
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<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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<td><strong>Non-concentration and concentration options</strong></td>
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<td>Program without a concentration—21 credits in</td>
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<td>graduate-level HSCI or MLS elective courses</td>
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<td>approved by the program director.</td>
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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
- MLS 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.