

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

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

Deadlines:

Spring - December 1

Summer - March 20

Standardized Not required.

Test Scores:

Recommendations (2) recommendations.

required:

**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.

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>).

**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 Requirement:** 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 Students:** International students should check with individual programs regarding eligibility for visa sponsorship. Generally, online and hybrid programs are not eligible for student visa sponsorship from GW. This would include transfer students from any other institution with an existing visa.

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. For a list of acceptable foreign credential evaluation services, please click here (<https://www.naces.org/members.php>).

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 #Pearsons#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: 600 on paper based, 250 on 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. \*Scores can be no older than 2 years.

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#degree from a country where English is the official language as well as language of instruction OR; They hold at least a #bachelor#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 22<sup>nd</sup> St.  
 Suite 220  
 Oak Brook, IL 60523

Documents may be submitted electronically to: transcripts@hsprograms.gwu.edu.

**Contact for questions:**

hsphora@gwu.edu  
 202-994-0384 (phone)  
 Hours: 9:00 am to 5:00 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 courses selected in consultation with the program director.

Code	Title	Credits
<b>Required core courses</b>		
MLS 6244	Research Ethics and Integrity	
MLS 6245	Current Topics in Medical Laboratory Science	

MLS 6246	Capstone Project
HSCI 6263	Biostatistics Translational Research
MLS 6159	Leadership in Laboratory Medicine

**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
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.