

# MASTER OF SCIENCE IN HEALTH SCIENCE IN THE FIELD OF BIOMEDICAL LABORATORY SCIENCE, TRANSLATIONAL MICROBIOLOGY CONCENTRATION

The master of science in health sciences in biomedical laboratory science provides a high-quality education for health professionals through the use of a creative and innovative online format. The concentration in translational microbiology is ideal for individuals working as clinical microbiologists who want a program of study with a microbiology focus.

The curriculum includes a combination of courses focused on leadership, research, current biotechnology, and ethics. Students are prepared 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.

## ADMISSIONS

Admissions    Fall - July 20  
Deadlines:

Spring - December 1
Summer - March 20
The application and all supporting documentation (fees, statement of purpose, letters of recommendation, transcripts) must be received by the deadline in order for the application to be reviewed.

Standardized Not required  
Test Scores:

Recommendations: Two (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. For a list of acceptable foreign credential evaluation services, please follow this link: <https://www.naces.org/members> (<https://www.naces.org/members/>)

**Statement of Purpose:** In an essay of 250 to 500 words, describe your reasons for undertaking study in the Health Sciences at the George Washington University. You should state your academic objectives, career plans, and related qualifications, including collegiate, professional, and community activities, as well as any other substantial accomplishments not already mentioned on the application form.

**Degree and GPA Requirements:** A bachelor's degree from a regionally accredited college or university

Overall undergraduate GPA of 3.0 or higher  
Prerequisite courses: College-level Mathematics (Algebra or higher - 3 credits); English Composition (3 credits); and

Students must have completed a combination of 30 semester hours or 45 quarter hours of biological, chemical and/or medical science courses with a grade of C or higher that include the following courses: General or Inorganic Chemistry I and II - both courses must include a "hands-on" laboratory (8 credits); General Biology I and II - both courses must include a "hands-on" laboratory (8 credits); General Microbiology - must include a "hands-on" laboratory (4 credits)

**Additional Requirements:** Resume/CV

**International applicants:** 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 includes transfer students from any other institution with an existing visa.

Applicants who have not completed a post-secondary degree from an institution where English is the sole language of instruction must submit TOEFL, IELTS, PTE Academic, or the Duolingo English Test scores to be considered for admission. The following are the minimum scores for admission consideration:

- Academic IELTS: An overall band score of 7.0, with no individual band score below 6.0.
- TOEFL: 600 paper-based or 100 internet-based.
- PTE: Overall score of 68

- DET: Overall score of 120

Undergraduate applicants who meet one of the following conditions can be considered for admission without submitting TOEFL, PTE or IELTS or DET scores:

-You have earned an associate's degree or higher from an institution where English is the sole language of instruction

-You are a citizen of an English-speaking country as defined on the SMHS International Applicant page (<https://smhs.gwu.edu/international-applicants> (<https://smhs.gwu.edu/international-applicants/>)).

Scores cannot be more than two years old. To ensure TOEFL scores are sent to GW, use institutional code 5246. An institutional code is not required to send IELTS or PTE scores to GW. DET scores must be submitted via the Duolingo English Test system directly to GW.

Based on their application and the results of the English proficiency examination students can be required to take English for Academic Purposes (EAP) during their first year of study at GW. GW evaluates each application holistically and applicants can be recommended for EAP even if they meet the requirements for exemption. Students placed in EAP courses should anticipate additional tuition expenses as well as possible extension of time needed to complete their degree programs.

MLS 6159 Leadership in Laboratory Medicine

MLS 6244 Research Ethics and Integrity

MLS 6245 Current Topics in Medical Laboratory Science

MLS 6246 Capstone Project

Code	Title	Credits
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#### Required concentration courses

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

6 credits in graduate-level Health Sciences Programs (HSCI) or Medical Laboratory Science (MLS) courses approved by the program director.

#### 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 can be submitted electronically to: [transcripts@hsprograms.gwu.edu](mailto:transcripts@hsprograms.gwu.edu).

#### Contact for questions:

[hsphora@gwu.edu](mailto: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, included 15 credits in required core courses, 15 credits in required concentration courses, and 6 credits in elective courses.

Code	Title	Credits
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#### Required core courses

HSCI 6263	Biostatistics Translational Research
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