MASTER OF SCIENCE IN HEALTH SCIENCES IN THE FIELD OF MOLECULAR DIAGNOSTIC SCIENCE

Molecular diagnostic testing uses highly sensitive and specific laboratory techniques to detect and identify biomarkers at the nucleic acid (DNA and RNA) level. Common molecular-based applications include medical diagnosis, establishing prognosis, monitoring the course of disease, and selecting optimal therapies. The master of science in health sciences in molecular diagnostic sciences prepares both MLS certified and noncertified individuals for careers in clinical or public health laboratories, research institutions, law enforcement agencies, as well as biotechnology or pharmaceutical companies.

The proposed curriculum has been designed so that students can complete the entire program in two academic years and offers the flexibility of allowing students to enroll either on a full-time or part-time basis. Furthermore, the program of study provides practical experience to individuals with no previous clinical molecular diagnostic experience in the form of a molecular diagnostics practicum course.

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

ADMISSIONS

Admissions Deadlines:

- Fall - July
- Spring - November
- Summer - March

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 Test Scores:

- Not required

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.

International Applicants:

- This program is not visa eligible. Permanent residents or those with a valid visa (e.g., work) may apply to perform their rotation in the US. International students may apply without a visa if they have an approved clinical site in their geographic region.

- The Health Sciences programs require the following minimum English language test scores for admission:
  - Academic IELTS: an overall band score of 7.0 with no individual band score below 6.0; or
  - TOEFL: 600 on paper-based or 100 on Internet-based; or
  - Academic PTE: 68

Supporting documents not submitted online should be mailed to:

George Washington University
ATTN: Transcript Processing Center
8300 Norman Center Dr
Suite 400
Bloomington, MN 55437

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/).
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, including 33 credits in required courses and one 3-credit elective course.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td><strong>Required</strong></td>
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<tr>
<td>HSCI 6263</td>
<td>Biostatistics Translational Research</td>
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<td>MLS 6216</td>
<td>Microbial Pathogenesis</td>
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<td>MLS 6217</td>
<td>Medical Biotechnology</td>
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<td>MLS 6218</td>
<td>Genetics</td>
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<tr>
<td>MLS 6219</td>
<td>Molecular Biology</td>
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<tr>
<td>MLS 6158</td>
<td>Advanced Laboratory Management and Operations</td>
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<tr>
<td>MLS 6166</td>
<td>Molecular Diagnostics Practicum *</td>
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<tr>
<td>MLS 6242</td>
<td>Molecular Pathology</td>
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<td>MLS 6244</td>
<td>Research Ethics and Integrity</td>
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<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><strong>Elective</strong></td>
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<td>One 3-credit MLS or HSCI course selected in consultation with the academic advisor.</td>
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* May be substituted with an elective course for students with current clinical molecular laboratory experience.