MASTER OF SCIENCE IN HEALTH SCIENCES IN THE FIELD OF IMMUNOHEMATOLOGY AND BIOTECHNOLOGY

Immunohematology, also called blood banking, is a field within the medical laboratory science profession that focuses on studying human immunologic reactions as they relate to disease processes and clinical manifestations of blood disorders. The clinical laboratory has traditionally used conventional methods to perform tests and assays for the purpose of aiding in human disease diagnosis. Over the years, there have been significant advances in biotechnologies.

Although conventional lab methods are still utilized in the clinical laboratory, more labs are starting to integrate molecular-based tests and to replace some of the more traditional technologies with cutting edge methods. The program has been designed to provide certified blood bankers with a strong foundation in Immunohematology as well as molecular biology and biotechnology.

Visit the program website (http://smhs.gwu.edu/medical-laboratory-sciences/programs/mshs/curriculum/immunohematology-biotechnology/) for additional information.

ADMISSIONS

Admissions Deadlines:
- Fall – June 15
- Spring - October 15
- Summer - March 1

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 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.

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.htm).

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 goals, 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.

International Applicants: Please review International Applicant Information (https://graduate.admissions.gwu.edu/international-student-application-requirements) carefully for details on required documents and English language requirements.

PLEASE NOTE that the Health Sciences programs require the following minimum English language test scores for admission:
- Academic IETLS: 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:
Office of Admissions
Health Sciences Programs
The George Washington University
2100 Pennsylvania Avenue, NW
Suite 300
Washington, DC 20037

Contact for Questions:
hsphora@gwu.edu - (202) 994-8528
202-994-0870 (fax)
9:00am - 5:00pm, Monday through Friday

REQUIREMENTS

The following requirements must be fulfilled: 35 credits, including 29 credits in required courses and 6 credits in elective courses.
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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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<tr>
<td>MLS 6141</td>
<td>Advanced Immunology and Serology</td>
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<tr>
<td>MLS 6158</td>
<td>Advanced Laboratory Management and Operations</td>
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<td>or MLS 6159</td>
<td>Leadership in Laboratory Medicine</td>
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<tr>
<td>MLS 6213</td>
<td>Seminar in Immunohematology</td>
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<tr>
<td>MLS 6217</td>
<td>Medical Biotechnology</td>
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<td>MLS 6218</td>
<td>Genetics</td>
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<td>MLS 6219</td>
<td>Molecular Biology</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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<td>MLS 6246</td>
<td>Capstone Project</td>
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<tr>
<td><strong>Electives</strong></td>
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6 credits in elective courses selected in consultation with the Program Director.