GRADUATE CERTIFICATE IN BIOMEDICAL INFORMATICS

The biomedical informatics program prepares professionals for a rewarding career in health care leadership and research. Graduates will be skilled in the integration of programming, data analysis and data manipulation skills to solve biomedical problems. Students learn how to apply data analytics to improve the quality of healthcare and patient outcomes. This interdisciplinary education includes components of clinical healthcare, computer science, data analytics, ethics and translational medicine. Our innovative curriculum include courses in statistics, leadership, computer programing, and clinical care and the healthcare system. Students develop informatics analytics and tools in support of clinical decision-making, clinical research, and patient engagement. Graduates are well-prepared for informatics careers working at hospitals and medical centers, pharmaceutical companies, global health care organizations, consulting groups, and in government agencies.

The introduction of electronic health records and health databases within the clinical setting has transformed health care. Informatics serves as the bridge between human-computer interactions in the health care space, as well as how the data we collect in these settings can be leveraged to improve patient safety, outcomes, and quality.

Visit the program website (https://smhs.gwu.edu/biomedical-informatics/programs/grad-cert/) for additional information

ADMISSIONS

Admissions Deadlines:
- Fall - August 6
- Spring - December 6
- Summer - March 15

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.

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

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

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

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)
**REQUIREMENTS**

The following requirements must be fulfilled: 18 credits in required and elective courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Required</strong></td>
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<tr>
<td>INFR 6101</td>
<td>Principles of Medical Informatics</td>
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<tr>
<td>INFR 6102</td>
<td>Principles of Medicine for Informaticians</td>
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<tr>
<td>INFR 6105</td>
<td>Health Care Quality for Informatics</td>
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<tr>
<td>INFR 6121</td>
<td>High Performance Computing</td>
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<tr>
<td>INFR 6540</td>
<td>Medical Decision Making and Decision Support Systems</td>
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<tr>
<td><strong>Elective</strong></td>
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<td>One 3-credit elective course selected from the following with the advisor’s approval. The advisor may approve an alternative elective.</td>
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<tr>
<td>INFR 6103</td>
<td>Advanced Computing Applications for Biomedical Informatics</td>
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<tr>
<td>HSCI 6273</td>
<td>Bioinformatics for Genomics</td>
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<tr>
<td>HSCI 6265</td>
<td>Grantsmanship in Translational Research</td>
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