

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 programming, 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

Deadlines:

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

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: Bachelor's degree from a regionally-accredited institution

Requirements:

3.0 GPA or above on a 4.0 scale

International Applicants: Please follow this link - <https://graduate.admissions.gwu.edu/international-student-application-requirements> (<https://graduate.admissions.gwu.edu/international-student-application-requirements/>) - to review the International Applicant Information 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:

George Washington University

ATTN: Transcript Processing Center
1415 W 22nd St.
Suite 220
Oak Brook, IL 60523

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: 18 credits in required and elective courses.

Code	Title	Credits
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Required

INFR 6101	Principles of Medical Informatics	
INFR 6102	Principles of Medicine for Informaticians	
INFR 6105	Health Care Quality for Informatics	
INFR 6121	High Performance Computing	
INFR 6540	Medical Decision Making and Decision Support Systems	

Elective

One 3-credit elective course selected from the following with the advisor's approval. The advisor may approve an alternative elective.

INFR 6103	Advanced Computing Applications for Biomedical Informatics	
HSCI 6273	Bioinformatics for Genomics	
HSCI 6265	Grantsmanship in Translational Research	