BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN BIOMEDICAL INFORMATICS

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/undergraduate/) for more information.

ADMISSIONS

Admission deadlines:
- Fall: August 1
- Spring: December 1
- Summer: March 15

Standardized test scores:
- SAT/ACT optional

Recommendation(s) required:
- 1 letter of recommendation is required. Recommendation should be from a high school guidance counselor, an academic teacher, or a previous or current supervisor.

Prior academic records:
- Transcripts are required from all colleges and universities attended (including via dual enrollment), 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. Official transcript may also be sent electronically directly from the institution.

Applicants may receive credit for college-level coursework through International Baccalaureate (IB) or College Board Advanced Placement (AP) examinations. Official score results must be forwarded directly from the College Board. Please refer to GW Undergraduate Admissions (https://undergraduate.admissions.gwu.edu/) for information on maximum credits, minimum scores, and GW course equivalents for AP and IB credits.

Prerequisites:
- 3 credits English Composition
- 3 credits in computer science, programming, or informatics

International applicants only:
- This program can be completed fully online. The program is not visa eligible.

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 click here (https://www.naces.org/members.php).

Applicants who are not U.S. citizens are required to submit official test scores for either Test of English as a Foreign Language (TOEFL) or Pearsons Test of English (PTE) Academic or the academic International English Language Testing System (IELTS). The following are the minimum scores for admission consideration:
- TOEFL: 250 computer-based or 100 Internet-based
- PTE: overall score of 68
- IELTS: an overall band score of 7.0, with no individual band score below 6.0

Statement of purpose:
All applicants are required to submit an essay of approximately 250-300 words. Describe your interest in undertaking study at the George Washington University. What are some of your academic objectives or career goals? Please highlight any of your related qualifications and achievements— including academic, community, professional, or extra-curricular activities relevant to your program of interest.

Additional requirements:
- The fully online program is only available for transfer students. Students must have at least 24 credits of college-level coursework with a minimum 2.5 overall GPA from a regionally accredited institution of higher learning in order to be considered for admission.

The minimum acceptable grade is C for coursework to be applied toward an undergraduate degree (grades of C- and below do not transfer to GW SMHS programs).

Non-traditional credit sources may be considered on a case-by-case basis (i.e. military coursework, credit-by-exam, and non-college based health programs). Information on transfer credit eligibility may be found in the Bulletin under Regulations (see Transfer Credit/Advanced Standing for Undergraduates), including minimum letter grade requirements.
International applicants who meet the following conditions may be considered for admission without submitting TOEFL, PTE or IELTS scores:

- They are a citizen of countries where English is the official language (as identified by GW ISO list of Exempt countries) OR
- They hold at least a bachelor degree from a country where English is the official language as well as language of instruction OR
- They hold at least a bachelor degree from an institution accredited by a U.S. regional accrediting agency.

**Supporting Documents not Submitted Online should be Mailed to:**
Health Sciences Office of Online Admissions
851 Trafalgar Court
Suite 420 West
Maitland, FL 3275

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

**Contact for Questions:**
hsphora@gwu.edu – 202-994-0384 (phone) – 202-994-0870 (fax)
9:00am - 5:00pm, Monday through Friday

**REQUIREMENTS**

The following requirements must be fulfilled: 120 credits in required and elective courses; at least 60 of these credits must be taken at GW.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>General education requirements</strong></td>
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<tr>
<td>3 credits in English composition</td>
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<tr>
<td>4 credits in natural or physical science with lab</td>
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<tr>
<td>6 credits in social sciences</td>
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<tr>
<td>3 credits in mathematics (college-level algebra or above)</td>
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<td>3 credits in computer science, programming, or informatics</td>
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<tr>
<td>3 credits in the humanities</td>
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<tr>
<td>HSCI 2112W</td>
<td>Writing in the Health Sciences</td>
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<tr>
<td>HSCI 4112W</td>
<td>Research and Writing in Health Sciences</td>
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<td><strong>Required for the major</strong></td>
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<tr>
<td>HSCI 2105</td>
<td>Current Issues in Bioethics</td>
<td></td>
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<tr>
<td>HSCI 3117</td>
<td>Principles of Biostatistics for Health Sciences</td>
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<tr>
<td>INF 4101</td>
<td>Introduction to Medical Informatics</td>
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**Clinical and laboratory sciences**

- HSCI 2102 Pathophysiology
- HSCI 3201 Biology I
- HSCI 3202 Biology II
- HSCI 3501 Human Anatomy and Physiology I
- HSCI 3502 Human Anatomy and Physiology II

**Health data analytics**

- HSCI 2117 Introduction to Statistics for Health Sciences
- INF 3102 Scripting
- INF 4121 High Performance Computing
- INF 4122 Advanced Scripting

**Topics in healthcare**

- COHM 4110 Strategic Communication for Healthcare Professionals
<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CRA 3101</td>
<td>Basics of Clinical Research</td>
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<tr>
<td>EHS 2211</td>
<td>Introduction to Telemedicine</td>
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<tr>
<td>HSCI 2050</td>
<td>Foundations of Health Equity</td>
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<tr>
<td>HSCI 2101</td>
<td>Psychosocial Aspects of Health and Illness</td>
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<tr>
<td>HSCI 3113</td>
<td>Health Policy and the Health Care System</td>
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<td>HSCI 3118</td>
<td>Quality Improvement in Healthcare</td>
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<tr>
<td>HSCI 4105</td>
<td>Case Studies in Healthcare</td>
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<tr>
<td>HSCI 4106</td>
<td>Introduction to Epidemiology for Health Sciences</td>
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<tr>
<td>RAFF 3101</td>
<td>Introduction to Regulatory Affairs</td>
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*Once a student has fulfilled the requirement to take either INFR 4197 or INFR 4198, they may repeat the course already taken and/or take the remaining course as an elective option.

**Advanced standing from eligible transfer credit may also be considered. Credit from non-traditional sources, i.e., other than from academic coursework, may be considered on a case-by-case basis; this may include military coursework, credit-by-exam, and non-college based health programs.