MASTER OF SCIENCE IN HEALTH SCIENCES IN THE FIELD OF 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 environment, as well as how data collected in these settings can be leveraged to improve patient safety, outcomes, and quality. Outcomes and course objectives of the master of science in health sciences in the field of biomedical informatics have been benchmarked to American Medical Informatics Association (AMIA) national standards (https://www.amia.org/sites/default/files/AMIA-Health-Informatics-Core-Competencies-for-CAHIIM.PDF).

Specific admission requirements are shown on the Graduate Program Finder. (http://www.gwu.edu/all-graduate-programs)

Visit the program website (https://smhs.gwu.edu/bioinformatics) for additional information.

REQUIREMENTS

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<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>HSCI 6223</td>
<td>Topics in Health Care Leadership</td>
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<tr>
<td>HSCI 6240</td>
<td>Issues and Trends in the Health Care System</td>
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<td>HSCI 6263</td>
<td>Biostatistics Translational Research</td>
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<td>HSCI 6264</td>
<td>Epidemiology Translational Research</td>
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<tr>
<td>INFR 6101</td>
<td>Principles of Medical Informatics</td>
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<td>INFR 6102</td>
<td>Principles of Medicine for Informaticians</td>
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<td>INFR 6105</td>
<td>Health Care Quality for Informatics</td>
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<td>INFR 6121</td>
<td>High Performance Computing</td>
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<tr>
<td>INFR 6197</td>
<td>Biomedical Informatics Practicum *</td>
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<tr>
<td>INFR 6198</td>
<td>Biomedical Informatics Capstone</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:</td>
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<tr>
<td>HSCI 6265</td>
<td>Grantsmanship in Translational Research</td>
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HSCI 6273  Bioinformatics for Genomics
INFR 6103  Advanced Computing Applications for Biomedical Informatics
INFR 6197  Biomedical Informatics Practicum

*Students may repeat INFR 6197 as an elective once other degree requirement have been met.