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

Code	Title	Credits
Required		
HSCI 6223	Topics in Health Care Leadership	
HSCI 6240	Issues and Trends in the Health Care System	
HSCI 6263	Biostatistics Translational Research	
HSCI 6264	Epidemiology Translational Research	
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 6197	Biomedical Informatics Practicum *	
INFR 6198	Biomedical Informatics Capstone	
INFR 6540	Medical Decision Making and Decision Support Systems	
Elective		
One 3-credit elective course selected from the following with the advisor's approval:		
HSCI 6265	Grantsmanship in Translational Research	
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.