

Guided Pathway to The George Washington University School of Medicine and Health Sciences

BSHS in Biomedical Informatics Advising Worksheet

Biomedical informatics is an interdisciplinary field that serves as a bridge between human-computer interactions and the health care industry. It develops methods and software tools for storing, retrieving, organizing, and analyzing biological and medical data. Our program is preparing the next generation of health care leaders in industry, research, and medical systems to understand and analyze medical data using the latest information technology and data science principles. The curriculum includes coursework in clinical and population health, artificial intelligence, research using electronic health record data, and engaging and empowering patients in their own health care.

For more information, contact:

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Program Delivery: Online Program

Program Website: <https://smhs.gwu.edu/biomedical-informatics/>

Admission Requirements - Completed Associates Degree (23 General Education + 37 Electives)

- English Composition (3 credits)
- Humanities (3 credits)
- Social Sciences (6 credits)
- Biology with lab; Anatomy and Physiology with lab are acceptable (4 credits)
- MATH 154 or higher (3 credits)
- Computer Science (4 credits)
- Electives (37 credits)

Junior Year – GW Biomedical Informatics						
☑	Course #	Course Title	College	Credits	Semester	Delivery Mode
	HSCI 2112W	Writing in the Health Sciences	SMHS	3	F, Sp, S	O
	INFR 4101	Introduction to Medical Informatics	SMHS	3	F, Sp, S	O,H
	INFR 4102	Survey of Medicine for Infomaticians	SMHS	3	F, Sp, S	O, H
	HSCI 2105	Current Issues in Bioethics	SMHS	3	F, Sp, S	O
		Elective	SMHS	3	F, Sp, S	O
	INFR 4105	Consumer Health Informatics	SMHS	3	Sp	O
	INFR 4106	Population Health for Medical Informatics	SMHS	3	Sp	O
	HSCI 4112W	Research/Writing in Health Sciences	SMHS	3	F, Sp, S	O
	HSCI 3117	Biostats for Health Sciences	SMHS	3	F, Sp, S	O
	HSCI 4104	Medical Informatics Terminologies/Standards	SMHS	3	F, Sp, S	O
Total Credits				30		

Senior Year – GW Biomedical Informatics						
☑	Course #	Course Title	College	Credits	Semester	Delivery Mode
	INFR 4103	Programming for Informaticians	SMHS	3	F, Sp	O,F
	INFR 4107	Clinical Decision Support	SMHS	3	F, Sp	O
	INFR 4108	Information Extraction/Medical Informatics	SMHS	3	F, Sp	O
	INFR 3102	Scripting	SMHS	3	F	O
	INFR 4109	Evaluation Methods for Medical Informatics	SMHS	3		O
	INFR 4110	Biomedical Data Science	SMHS	3	F, Sp	O,H
	INFR 4122	Advanced Scripting	SMHS	3	Sp	O
	INFR 4197	Medical Informatics Internship	SMHS	3	F, Sp, S	O,H,F
		Choose 2 Electives	SMHS	6	F, Sp, S	O
Total Credits)				30		

Requirements	Credits
General Education + Electives	23 + 37
TOTAL Transferred Credits from Associate's Degree	60
Required Credits for GW Bachelor's Completion	+60
Total Credits - Bachelor's of Science in Health Sciences Biomedical Informatics	120

Semester Offered = F-Fall, Sp-Spring, S-Summer

Delivery Mode = O-Online, H-Hybrid, F-Face-to-Face