HEALTH SCIENCE AND HEALTH INFORMATICS, BS/MS

Campus: Westchester

In this program, students complete both the Bachelor of Science in Health Science and the Master of Science in Health Informatics (MSHI) within five years. The undergraduate degree requirements can be met on both the New York City and Pleasantville campuses. The graduate courses in Health Informatics will be completed on the New York City campus or Online.

Students will get a strong foundation in health science including an understanding of the role of social determinants of health that contribute to health disparities and how to mitigate these effects through planning and programming. Health informatics is the intersection of healthcare, data, and technology and is the application of data and technology to improve process and clinical outcomes as well as patient care. Courses are delivered from the College of Health Professions and the Seidenberg School of Computer Science and Information Systems, providing you the opportunity to collaborate with master's level Seidenberg students and other cohorts in the Health Informatics program.

Students are encouraged to declare their interest in the dual degree program when they are in the sophomore year of their BS in Health Science and then apply for acceptance into the joint degree program with the MSHI during their junior (third year).

Requirement	Credits
University Core	44
Major Courses	45
Open Electives	11
Additional Graduate Courses for MSHI Degree	30
Total Credits	**130**

University Core Requirements (44 Credits)
See complete University Core requirements.

Note: Various major-required math and science courses, and courses required for MSOT admission (such as ANT101, SOC102, and PSY112), listed below may fulfill foundation, area of knowledge, and/or core requirements. Please consult with an academic advisor.

Major Requirements (45 Credits)

Code	Title	Credits
Health Science Requirements (30 credits)		
HSC 100	Health Care Ethics	3
HSC 110	Introduction to Health Promotion and Disease Prevention	3
HSC 200	Health Care for Diverse Populations	3
HSC 205	Health Informatics and Telehealth (Substitute HINF 610)	3
HSC 210	Health Care Policy	3
HSC 300	Genetics in Health Care	3
HSC 305	Introduction to Epidemiology and Evidence-Based Practice	3
HSC 400	Leadership and Management in Health Care	3
HSC 480	Capstone Project 1	3
HSC 481	Capstone Project II (Substitute HINF 691)	3
Major Concentration - Global Health (15 credits)		
HSC 315	Global Health IT and Innovations	3
HSC 320	Global Primary Health Care: An Introduction	3
HSC 330	Global Environmental Health	3
HSC 405	Global Health: A Field Experience	3
HSC 410	Global Health Care Systems	3

Open Electives (11 CREDITS)

Code	Title	Credits
UNV 101	First-Year Seminar: Introduction to University Community	1
BUS 101	Contemporary Business Practice	3
General Electives		7

First Year MSHI Program (30 Credits)

Code	Title	Credits
HINF 610	Healthcare Environments and Delivery Systems	3
HINF 615	Ethics, Privacy, and Security	3
HINF 630	Clinical Systems A	3
HINF 635	Clinical Systems B	3
HINF 691	Evidence-Based Practice and Research for Health Informatics	3
IS 613	Database Management Systems	3
IS 638	Introduction to User Experience Design	3
IS 669	Big Data and Information Systems	3
IS 678	Location Analytics and Web GIS	3
IS 680	Data Science I: Introduction to Data Science and Visualization	3

Course	Title	Credits
First Year		
Fall		
UNV 101	First-Year Seminar: Introduction to University Community	1
HSC 110	Introduction to Health Promotion and Disease Prevention	3
ENG 110	Composition	3
BUS 101	Contemporary Business Practice	3
PSY 112	Introduction to Psychology	4
Western Heritage (AOK 2)		3
	Credits	**17**
Spring		
ENG 120	Critical Writing	4
CIS 101	Introduction to Computing	3
World Cultures and Traditions (AOK 3)		3
Lab Science (recommended BIO 123)		4
Humanistic & Creative Expressions (AOK 4)		3
	Credits	**17**
Second Year		
Fall		
HSC 200	Health Care for Diverse Populations	3
HSC 210	Health Care Policy	3
HSC 300	Genetics in Health Care	3
COM 200	Public Speaking	3
Second Language Required Course. See Advisor for guidelines.		3
	Credits	**15**
Spring		
HSC 330	Global Environmental Health	3
HSC 305	Introduction to Epidemiology and Evidence-Based Practice	3
MAT 134	Introduction to Probability and Statistics	3
Second Language Required Course. See Advisor for guidelines.		3
Civic Engagement Course		3
	Credits	**15**
Third Year		
Fall		
HSC 320	Global Primary Health Care: An Introduction	3
HSC 400	Leadership and Management in Health Care	3
ENG 201	Writing in the Disciplines	3
Western Heritage (AOK 2)		3
Humanistic & Creative Expressions (AOK 4)		3
	Credits	**15**

Spring

HSC 405	Global Health: A Field Experience	3
HSC 410	Global Health Care Systems	3
World Cultures & Traditions (AOK 3)		3
Analysis of Human, Social & Natural Phenomena (AOK 5)		3
General Elective		3
	Credits	**15**

Fourth Year

Fall

HSC 480	Capstone Project 1	3
HINF 610	Healthcare Environments and Delivery Systems	3
General Elective		3
IS 613	Database Management Systems	3
HINF 635	Clinical Systems B	3
	Credits	**15**

Spring

HINF 615	Ethics, Privacy, and Security	3
IS 678	Location Analytics and Web GIS	3
IS 680	Data Science I: Introduction to Data Science and Visualization	3
HINF 630	Clinical Systems A	3
HINF 691	Evidence-Based Practice and Research for Health Informatics	3
	Credits	**15**

Summer

IS 638	Introduction to User Experience Design	3
IS 669	Big Data and Information Systems	3
	Credits	**6**
	Total Credits	**130**