Health Informatics, MS (Vancouver)

Northeastern University's interdisciplinary Master of Science in Health Informatics was the first MS in the field and is now one of the few that is fully interdisciplinary between health science and computer science.

The program seeks to prepare students to address the combined clinical, technical, and business needs of health-related professionals. Students graduate with the knowledge of how technology, people, health, and the healthcare system interrelate; the ability to use technology and information management to improve healthcare delivery and outcomes; and the skills to communicate effectively among healthcare practitioners, administrators, information technology professionals, and patients.

Please visit Bouvé College Learning Outcomes (http://bouve.northeastern.edu/learning-outcomes/) for the specific student learning outcomes for this program.

Program Requirements

Note: For the 2025–2026 academic year, this program will be offered in an online format. If you have questions about eligibility, please reach out to your admissions counselor.

Complete all courses and requirements listed below unless otherwise indicated.

A grade of B– or higher is required in each course.

Code	Title	Hours
Core Requirements		
HINF 5101	Introduction to Health Informatics and Health Information Systems	3
HINF 5106	The Canadian Healthcare System	3
Business Management		
Complete two of the following:		6
HINF 5407	Business Application of Decision Support in Healthcare	
HINF 6201	Organizational Behavior, Work Flow Design, and Change Management	
HINF 6202	Business of Healthcare Informatics	
HINF 6215	Project Management	
or EMGT 5220	Engineering Project Management	
HINF 6240	Improving the Patient Experience through Informatics	
HINF 6335	Management Issues in Healthcare Information Technology	
PHTH 5226	Management and Leadership in Public Health and Healthcare	
Health Informatics		
Complete two of the following:		6
HINF 5102	Data Management in Healthcare	
HINF 5110	Global Health Information Management	
HINF 5200	Theoretical Foundations in Personal Health Informatics	
HINF 5300	Personal Health Interface Design and Development	
HINF 5301	Evaluating Health Technologies	
HINF 6205	Creation and Application of Medical Knowledge	
HINF 6350	Public Health Surveillance and Informatics	
HINF 6404	Patient Engagement Informatics and Analytics	
HINF 6405	Quantifying the Value of Informatics	
PHTH 5232	Evaluating Healthcare Quality	
Technical		
Complete two of the following:		6
HINF 6220	Database Design, Access, Modeling, and Security	
HINF 6355	Interoperability Key Standards in Health Informatics	
HINF 6400	Introduction to Health Data Analytics	
HLTH 5800	AI Across the Health Sciences	
PHTH 5202	Introduction to Epidemiology	
PHTH 5210	Biostatistics in Public Health	
PHTH 6210	Applied Regression Analysis	

PHTH 6400	Principles of Population Health 1	
PHTH 6440	Advanced Methods in Biostatistics	
One course from the following may count toward the technical core requirement:		
DA 5020	Collecting, Storing, and Retrieving Data	
DA 5030	Introduction to Data Mining/Machine Learning	
INSH 5301	Introduction to Computational Statistics	
INSH 5302	Information Design and Visual Analytics	
PHIL 5110	Responsible AI	
Capstone		
HINF 7701	Health Informatics Capstone Project	3
Electives		
Complete two of the following:		6
DA 5020	Collecting, Storing, and Retrieving Data	
DA 5030	Introduction to Data Mining/Machine Learning	
HINF 6345	Design for Usability in Healthcare	
INSH 5301	Introduction to Computational Statistics	
INSH 5302	Information Design and Visual Analytics	

Program Credit/GPA Requirements

Minimum 33 total semester hours required
Minimum 3.000 GPA required