Northeastern’s interdisciplinary Master of Science in Health Informatics was the first MS in the field. The program seeks to prepare students to address the combined clinical, technical, and business needs of health-related professionals. Successful 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, and information technology professionals.

With approval from the health informatics program director, selected students can substitute one course from the Graduate Certificate in Data Analytics for a technical core requirement in the MS in Health Informatics degree, and up to two more courses from the Graduate Certificate in Data Analytics can be counted as electives for the MS in Health Informatics degree.

Northeastern also offers graduate certificate programs in health informatics. Three certificate programs enable you to choose the one that addresses your specific goals. These programs are listed separately in this catalog:

- Graduate Certificate in Health Informatics Management and Exchange
- Graduate Certificate in Health Informatics Privacy and Security
- Graduate Certificate in Health Informatics Software Engineering

Courses in the certificate program also apply toward master’s degree requirements. This gives you the flexibility to complete a certificate and be well on your way to earning a degree if you decide later to continue your education.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Requirements

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

Core Requirements

HINF 5101 Introduction to Health Informatics and Health Information Systems 3
HINF 5105 The American Healthcare System 3
HINF 7701 Health Informatics Capstone Project 3

Business Management Core

Complete two courses from the following: 6

HINF 6202 Business of Healthcare Informatics
HINF 6215 Project Management
HINF 6335 Management Issues in Healthcare Information Technology
HINF 6240 Improving the Patient Experience through Informatics
PHTH 5226 Strategic Management and Leadership in Healthcare

Health Informatics Core

Complete two courses from the following: 6

HINF 5102 Data Management in Healthcare
HINF 5110 Global Health Information Management
HINF 5200 Theoretical Foundations in Personal Health Informatics
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 Core

Complete two courses from the following: 6

HINF 6220 Database Design, Access, Modeling, and Security
HINF 6230 Strategic Topics in Programming For Health Professionals
HINF 6355 Key Standards in Health Informatics Systems
PHTH 5210 Biostatistics in Public Health
PHTH 5202 Introduction to Epidemiology

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
PPUA 5301 Introduction to Computational Statistics
PPUA 5302 Information Design and Visual Analytics

Electives

Complete two courses from the following. Any course not taken to complete a core requirement may be taken as an elective: 6

HINF 6325 Legal and Social Issues in Health Informatics
HINF 6330 Emerging Technologies in Healthcare
HINF 6345 Design for Usability in Healthcare
DA 5020 Collecting, Storing, and Retrieving Data
DA 5030 Introduction to Data Mining/Machine Learning
PPUA 5301 Introduction to Computational Statistics
PPUA 5302 Information Design and Visual Analytics

Program Credit/GPA Requirements

Minimum 33 total semester hours required
Minimum 3.000 GPA required