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.

**Core Requirements**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HINF 5101</td>
<td>Introduction to Health Informatics and Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HINF 5105</td>
<td>The American Healthcare System</td>
<td>3</td>
</tr>
<tr>
<td>HINF 7701</td>
<td>Health Informatics Capstone Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Business Management**

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

**Health Informatics**

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
- PTHH 5232 Evaluating Healthcare Quality

**Technical**

Complete two courses from the following: 6

- HINF 6220 Database Design, Access, Modeling, and Security
- HINF 6355 Key Standards in Health Informatics Systems
- HINF 6400 Introduction to Health Data Analytics
- PTHH 5202 Introduction to Epidemiology
- PTHH 5210 Biostatistics in Public Health
- PTHH 6210 Applied Regression Analysis
- PTHH 6400 Principles of Population Health 1
- PTHH 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
- 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HINF 6345</td>
<td>Design for Usability in Healthcare</td>
<td></td>
</tr>
<tr>
<td>DA 5020</td>
<td>Collecting, Storing, and Retrieving Data</td>
<td></td>
</tr>
<tr>
<td>DA 5030</td>
<td>Introduction to Data Mining/Machine Learning</td>
<td></td>
</tr>
<tr>
<td>PPUA 5301</td>
<td>Introduction to Computational Statistics</td>
<td></td>
</tr>
<tr>
<td>PPUA 5302</td>
<td>Information Design and Visual Analytics</td>
<td></td>
</tr>
</tbody>
</table>
Program Credit/GPA Requirements
Minimum 33 total semester hours required
Minimum 3.000 GPA required