

ONLINE MASTER'S DEGREE PROGRAM

# Health Informatics

Choose from specializations in Clinical Informatics, Health Informatics, and Health Administration Informatics



# Information management at its most human

## MASTER OF SCIENCE IN HEALTH INFORMATICS

Offered in partnership with Northwestern's Feinberg School of Medicine, the online MS in Health Informatics enables healthcare, business and IT professionals to harness the power of information management technology to transform patient care. Expertise in informatics will make a difference for you, your organization, and the patients you serve. And you'll graduate prepared for healthcare's most future-ready, growth-oriented sector.

MHI prepares students for emerging opportunities and roles across the health care enterprise. Students prepare to leverage technology tools and data for more efficient, patient-centered health care services delivery and improved population health, while developing essential skills such as organizational change leadership and project management.

MHI students come from a range of backgrounds that are reflected in three distinct program specializations: Clinical Informatics, Health Technology Informatics, and Health Administration Informatics. Introductory courses in information technology and clinical practice may be waived for those with substantial experience in those areas.

The Clinical Informatics specialization offers core content needed to build knowledge, skills, and competencies required for board certification in clinical informatics as a designated medical subspecialty. Fully accredited, SPS online courses marry the best aspects of online technology with the interactivity of the classroom in a format designed to work with students' busy schedules.

# Curriculum

The Master of Science in Health Informatics will require the successful completion of 12 courses to obtain a degree, with each course counting as one unit of credit. Students complete five core courses including a leadership course and a capstone (498) or thesis (590) project, four required courses, and three elective courses corresponding to a chosen area of specialization: clinical informatics, health technology and health administration.

## CORE COURSES

3 COURSES

- MHI 401 American Health Care System
- MHI 403 Introduction to Health Informatics
- MHI 407 Legal, Ethical & Social Issues
- MHI 480 Leadership
- MHI 498 Capstone Project or MHI 590 Thesis Research

## LEADERSHIP COURSE

SPS strives to equip its students with fundamental skills in effective leadership, communication, innovation and change management. To gain exposure to theories and best practices in these administrative areas, MHI students join other SPS graduate students in a 10-week leadership class (LEADERS 480). With this class complementing the core curriculum, graduates are better prepared to face the challenges of the modern workplace.

## CAPSTONE PROJECT

The Capstone experience uniquely challenges students to **apply** the knowledge, skills and competencies they've built in the program; to develop an innovative solution to a case-based problem; and to build bridges to professional goals in health informatics as they look beyond the MHI program.

## SPECIALIZATIONS

### Clinical Informatics (4 required courses, choose 3 additional)

The Clinical Informatics specialization is designed to prepare students to master the knowledge and skills reflected in the core content for clinical informatics approved by the American Medical Informatics Association (AMIA), which defines the boundaries of the discipline and informs the program requirements for fellowship education in clinical informatics.

- MS\_IDS 452 Introduction to Data and Analytics\*
- CIS 413 Telecommunication Networks\*
- MHI 405 HIT Standards and Interoperability\*
- MHI 406 Decision Support Systems\*
- MHI 402 Introduction to Clinical Thinking
- MHI 408 Information System Acquisition & Lifecycle
- MHI 409 Biostatistics
- CIS 417 Database Systems Design & Implementation
- CIS 435 Data Science
- CIS 436 Big Data Management & Analytics
- CIS 494 Information Systems Project Management
- MS\_IDS 453 Techniques of Analytics
- PREDICT 402 Introduction to Predictive Analytics
- PREDICT 475 Predictive Analytics Project Management
- MSGH 417 Global Health Systems
- MSGH 458 Global Health and Technology
- MS\_IDS 409 Data Management Principles: User Perspective
- MS\_IDS 401 User-centered System Design
- MHI 413 Consumer eHealth
- MHI 414 Emerging Federal Regulation & Policy

### Health Technology (4 required courses, choose 3 additional)

This specialization is geared for students typically involved in information technology, not necessarily in the health care sector, in roles such as technology suppliers, web developers and administrators, information system coordinators, and IT project managers, among others.

- MHI 402 Introduction to Clinical Thinking\*
- MHI 404 Health Care Organization Operations\* (recommend taking after MHI 401)
- MHI 405 HIT Standards and Interoperability\*
- MHI 406 Decision Support Systems\*
- MHI 408 Information System Acquisition & Lifecycle
- CIS 413 Telecommunication Networks
- CIS 417 Database Systems Design & Implementation
- CIS 435 Data Science
- CIS 436 Big Data Management & Analytics
- CIS 494 Information Systems Project Management
- MSGH 417 Global Health Systems
- MSGH 458 Global Health and Technology
- MS\_IDS 401 User-centered System Design
- MS\_IDS 409 Data Management Principles: the User Perspective
- MS\_IDS 452 Introduction to Data and Analytics
- PREDICT 402 Introduction to Predictive Analytics
- MS\_IDS 453 Techniques of Analytics
- PREDICT 475 Predictive Analytics Project Management
- MHI 413 Consumer eHealth
- MHI 414 Emerging Federal Regulation & Policy

\* required courses

**Health Administration Informatics** (4 required courses, choose 3 additional)

This specialization is designed for students typically involved in health care business, administrative or management roles in a wide variety of settings such as health care organizations, insurers, consulting, technology firms and government, among others.

- MHI 402 Introduction to Clinical Thinking\*
- MHI 404 Health Care Organization Operations\*
- MHI 408 Information System Acquisition & Lifecycle\*
- MHI 413 Consumer eHealth\*
- MHI 405 HIT Standards and Interoperability
- MHI 406 Decision Support Systems
- MS\_IDS 401 User-centered System Design
- MS\_IDS 409 Data Management Principles: the User Perspective
- MS\_IDS 452 Introduction to Data and Analytics
- MS\_IDS 453 Techniques of Analytics
- PREDICT 402 Introduction to Predictive Analytics
- PREDICT 475 Predictive Analytics Project Management
- CIS 413 Telecommunication Networks
- CIS 417 Database Systems Design & Implementation
- CIS 435 Data Science
- CIS 436 Big Data Management & Analytics
- CIS 494 Information Systems Project Management
- MSGH 458 Global Health and Technology
- MSGH 417 Global Health Systems
- MHI 414 Emerging Federal Regulation & Policy

\* required courses

## Admission

Applicants must hold a bachelor's degree from a regionally accredited institution or its foreign equivalent. A competitive undergraduate record that indicates strong academic ability is required. Work or research experience in clinical, computing or information technology fields is highly desirable but not a requirement for admission. The Graduate Record Examination (GRE) is not required, but strong scores bolster chances for admission.

### APPLICATION CHECKLIST

- Online application — access from [sps.northwestern.edu/mhi](https://sps.northwestern.edu/mhi) and then click “Begin Application Process”
- \$75 nonrefundable application fee
- One sealed copy of official transcripts from ALL attended colleges and universities
  - Official transcripts must arrive in our office in the original sealed envelope issued by the institution. Northwestern University School of Professional Studies accepts electronic transcripts from U.S. institutions via secure electronic transcript providers. Consult with your institution to see if they are part of a secure e-delivery network. All electronic transcripts should be sent to [spsadmissions@northwestern.edu](mailto:spsadmissions@northwestern.edu). Please note transcripts are not accepted by fax or personal email. If you are currently enrolled, please submit an official transcript showing courses in-progress.
  - Applicants with international transcripts must request an official course-by-course evaluation of transcripts from a NACES member such as WES or ECE. A course-by-course evaluation will translate courses, degrees and grades to U.S. equivalency.
- Two letters of recommendation focusing on academic and professional achievement and ability
- Statement of purpose (see following)
- Current resume or curriculum vitae

Transcript mailing address:

MHI Graduate Admissions, Northwestern University School of Professional Studies, Wieboldt Hall, Sixth floor  
339 E. Chicago Ave. Chicago, Illinois 60611-3008

### STATEMENT OF PURPOSE

Applicants must submit a 300-word statement of purpose explaining how the degree program will help them meet their academic and professional goals. Those without previous education or training in health informatics or a related field should explain how other academic and nonacademic experiences have equipped them to undertake graduate study in the program.

### APPLICATION DEADLINES

Applications are accepted every quarter.

- **Fall:** July 15
- **Spring:** January 15
- **Winter:** October 15
- **Summer:** April 15

For detailed admission information  
visit [sps.northwestern.edu/mhi](https://sps.northwestern.edu/mhi). For application  
assistance call 312-503-2579 or email [mhi@northwestern.edu](mailto:mhi@northwestern.edu)



“ I looked at other programs, but none stressed the level of aptitude of Northwestern. My classmates were already working professionals at the top of their fields. For a remote program, it was great to be in class with people I could learn from.”

Henry Gabb, PhD, Principal Engineer,  
Intel Corporation



“ It really impressed me that the professors had really practical working backgrounds related to what they were teaching. They shared real life examples that were really helpful to reinforcing the concepts we were learning and trying to apply.”

Elise Blanchard, Clinical Systems Analyst, Meriter  
Health Services

Northwestern | SCHOOL OF PROFESSIONAL STUDIES

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Chicago, Illinois 60611

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