HEALTH INFORMATICS
UNIVERSITY OF MICHIGAN
A joint program of the School of Information and School of Public Health

Place yourself at the leading edge of health transformation.

"The study of health informatics gave me the breadth of knowledge I need to bridge the worlds of health care and information science."

Funmi Giwa, MHI '14
Consultant, Pricewaterhousecoopers
What is health informatics?

Health Informatics (HI) is the interdisciplinary field that studies and pursues the effective uses of medical and health data, information, and knowledge for scientific inquiry, problem solving and decision making, through information systems and technologies, motivated by efforts to improve human health. Health informationists practice in a variety of settings, including academia, industry, hospitals, clinical practices and government.

Key aspects:

• HI develops, studies and applies theories, methods and processes for the generation, storage, retrieval, use and sharing of medical and health data, information, and knowledge.

• HI builds on computing, communication and information sciences and technologies and their application in medicine and public health.

• HI serves as a bridge between basic and clinical research and practice and the healthcare industry.

• HI recognizes that people are the ultimate users of health information and draws upon the social and behavioral sciences to inform the design and evaluation of technical solutions and the development of complex economic, ethical, social, educational, and organizational systems.

Definition adapted from the American Medical Informatics Association (AMIA) www.amia.org/biomedical-informatics-core-competencies.
The thing I like best about the MHI program is that we all come from different academic backgrounds and have something to teach each other. The students are extremely supportive of each other, which creates a great learning environment!

Anna Vantsevich, MHI '15
Presidential Management Fellow (PMF)
San Francisco VA Medical Center
“With deep training in public health and human-centered information technologies, our graduates will be able to design and deploy technologies that can make a difference for marginalized populations, and enhance health equity.”

Tiffany Veinot
Associate Professor of Information and Public Health
WORLD-CLASS FACULTY

Study with leaders to become a leader.

The internationally respected faculty at the Schools of Information and Public Health bring a wealth of experience in teaching, research, and service to the core offerings of program. The program’s university-wide affiliated faculty ensures that MHI students are able to pursue virtually any topic related to health informatics and to take full advantage of the many academic and professional resources at a top research university.

The research of the program faculty addresses a wide range of informatics challenges:

- Workflow and sociotechnical integration of health technologies
- National policies on health information technology
- Large scale health information infrastructure
- Design of health communications
- Interaction design and user experience
- Access, acquisition, and exchange of health information in communities
- Evaluation of health information technologies
- Visualization of health data
- Clinical decision support

"Because the MHI program is situated in two schools, I’ve met phenomenal faculty and networked with hundreds of students and world-class professors."

Asif Sheikh, MHI ’15
Associate, Performance Technologies
Advisory Board Company
In the MHI program you will build knowledge of the healthcare system and master concepts in health policy, information science, behavioral, cognitive, and organizational science. You will develop methodological skills in high-powered analytics, systems analysis, planning, development and implementation. Through elective courses you can explore a holistic approach to the field or focus on a primary area of interest:

- **Consumer-facing applications of technology** that support individual health, such as wellness programs, personal health records, mobile health, and decision-support tools
- **Design and evaluation of information systems** that support clinical work in formal health care settings, including hospitals, office practices, and long term care facilities
- **Population health** that improves public health at all levels, through data mining and epidemiological analysis, epidemic detection and tracking.

A 400-hour internship experience in your area of interest provides the vital hands-on, real-world experiences that enhance your value to potential employers.

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**MHI students land great internships at a range of organizations like:**

- America’s Health Insurance Plans - Washington, DC
- CommunicateHealth - Northampton, MA
- El Servicio Departamental de Salud de La Paz - La Paz, Bolivia
- FoodCare, Inc. - Louisville, KY
- Lockheed Martin, Health & Wellness - Rockville, MD
- Michigan Health Information Network - East Lansing, MI
- Permanente Medical Group - Oakland, CA
- Stanford Hospital & Clinics - Stanford, CA

**MHI graduates are working for great organizations like:**

- Deloitte - Detroit, MI
- Explorys - Cleveland, OH
- Huron Consulting - Seattle, WA
- NORC - Washington, DC
- Online Tech - Ann Arbor, MI
- PricewaterhouseCoopers - Chicago, IL
- Truven Health Analytics - Ann Arbor, MI
- University of Michigan Health System - Ann Arbor, MI
“I will use my education to improve individual health by empowering people with information.”

I.K. Olomu, MHI ‘14
User experience architect,
Woven Digital LLC
“I want to implement effective digital health interventions. Michigan’s expertise sets me up to be a leader.”

Nick Reid, MHI ’15
The Master of Health Informatics degree is a 2-year on-campus program consisting of 52-credits and a required internship. Students enroll in 37-38 credits of core coursework and expand their knowledge and skills through 14-15 credits of elective course work.

The core curriculum includes a set of interdisciplinary courses that introduce the informational and social sciences in the context of health. These courses are critical to leadership preparation for the health informatics field:

- Introduction to Health Informatics
- Empirical Methods in Health Informatics
- Managing Health Informatics
- Critical Policy Issues in Health IT
- Consumer Health Informatics
- Designing Consumer-Health Technologies
- Population Health Informatics

Students are further prepared in the core curriculum through key offerings in information science and public health. Through these courses, students learn fundamentals of computing and database design, human behavior, epidemiological methods, and statistics. Coursework on the U.S health care system helps position students to be agents of change.

“Health informatics isn’t just about creating health data. It’s about making health data intuitively meaningful for the patient, clinician, or policy maker who needs to act on it.”

Brian Zikmund-Fisher
Associate Professor of Public Health Research Associate Professor of Internal Medicine
PROMISING CAREER OUTLOOK

Health informatics is one of the fastest growing career fields. By combining their skills in public health and information, health informatics professionals can assume many unique and important roles.

- Graduates with interests in **human behavior** may lead visioning and strategy for new ways of leveraging information to promote the improvement of individual health behaviors.

- Individuals with **entrepreneurial aspirations** may lead the development of applications or systems that improve the ways consumers and clinicians access and use information.

- Those with **technical interests** may find roles as application designers and developers, consultants, system analysts, and entrepreneurs.

- Individuals with **analytical and quantitative skills** can become quality improvement analysts, data miners, evaluation specialists, or clinical and public health researchers.

- **Policy-minded** graduates can be part of a new generation of informatics-enabled policy analysts and engage with ongoing health reform.

- Those who enter the program from the **health professions** will be able to assume positions as medical, nursing, or public health information or technology officers who envision new solutions to health care and delivery.

“I feel fortunate to have found a program that complemented my medical background and that led to a new job where I can put the skills I’ve acquired in to practice.”

**Johmarx Patton, MD ’08, MHI ’13**

University of Michigan Medical School, Informatics Analyst
Health informatics students come from a wide range of undergraduate majors, including:

- Natural Science
- Social Science
- Clinical Science
- Computer science/engineering
- Humanities
- Public health
- Business
- Information science
- Art/design

100% of MHI 2014 graduates had job offers within 6 months of graduating, and 100% would recommend the program to others.
WHO SHOULD APPLY?

The U-M MHI program is designed for individuals who want to work at the forefront of a transformation, designing information solutions to empower change, implementing new ways of realizing a healthier nation and world, and studying their effects to guide further changes. Individuals from all academic and professional backgrounds are welcome and encouraged to apply.

For application deadline information, please visit our website: umhi.info/readmore

Contact us for more information:

Phone: 734.647.7705
Fax: 734.615.3587
Email: hi.admissions@umich.edu
Twitter: twitter.com/umichHI
Facebook: facebook.com/umichHI

GRADUATES OF THE PROGRAM:

- are committed to improving health and health care
- are committed to meeting diverse health needs and reducing health disparities
- recognize that health science is an information science
- appreciate the difference between what is possible and what is needed
- recognize the importance of understanding the communities and organizations where individuals live and work
- innovate and lead

“There is enormous potential for information technology to transform individual health and healthcare systems. We are preparing leaders who can identify challenges at their roots and leverage the power of information technology to improve healthcare delivery and patient health outcomes.”

Kai Zheng
Director of the Health Informatics Program
Associate Professor of Health Management and Policy, School of Public Health
Associate Professor of Information, School of Information

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Contact us for more information:
Phone: 734.647.7705
Fax: 734.615.3587
Email: hi.admissions@umich.edu
Twitter: twitter.com/umichHI
Facebook: facebook.com/umichHI