



COLLEGE OF PROFESSIONAL STUDIES

MASTER OF SCIENCE IN HEALTH INFORMATICS

Where High Tech Meets Human Health

The field of healthcare is rapidly growing and modernizing, creating a tremendous demand for professionals with skills and knowledge in the application of healthcare information and technology. If you'd like to be one of those who apply digital information to advance healthcare and improve health, the Master of Science in Health Informatics will provide you with a sought-after graduate professional degree in the field. It will prepare you for mid-level and leadership positions within healthcare, technology, and consulting organizations, and ground you in the effective use of information technologies and systems to improve the healthcare ecosystem.

Coursework will encompass areas of information systems, information technology, and informatics, including decision support, care coordination, consumer empowerment, the structured language of healthcare, standards, health information exchange,

usability, electronic health records, security, socio-technical aspects of health computing, human-computer interaction, evidence-based practice, and health outcomes.

Program highlights:

- Entire program can be completed online
- Explore health, innovation, technology, leadership, quality, best practices, tele-health, mobile health, and more as tools for high-quality, cost-effective care
- Engage with experientially and academically prepared faculty and fellow students in flexible, innovative, dynamic, and practice-based learning experiences
- Qualify for opportunities as a project manager, analyst, specialist, and for a variety of evolving leadership roles within healthcare delivery, consulting, health insurance, government, and the broader high tech and healthcare industry sectors

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MASTER OF SCIENCE IN HEALTH INFORMATICS

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As healthcare makes dramatic strides to adopt new information and communication technologies, there is a growing demand for health informatics professionals. This rapidly developing field is only beginning to unlock the vast promise of using electronic-based information to advance health care and ultimately improve the health of individuals and populations. The MS in Health Informatics is a graduate professional degree designed to enhance the practice of health informatics by preparing students for career growth to mid-level and leadership positions within healthcare organizations, technology, and consulting firms. This program is intended for students interested in the effective use of information technologies and systems to improve the quality, safety, efficiency, and affordability of healthcare.

The MS Health Informatics program leverages the rich collective strengths, synergies, faculty, and resources of National University Center for Technology and Health Sciences and the Schools of Health and Human Services, Engineering and Computing, and Business and Management.

Program study includes coursework related to:

1. Information Systems - Leadership and management of healthcare applications; including analysis, design, adoption, and optimization.
2. Information Technology - Effective use of database and systems administration, computer networks, security, programming, and wireless devices.
3. Informatics - The structured language of healthcare, standards, data structures, health information exchange, decision support, care coordination, consumer health, socio-technical aspects of health computing, human-computer interaction, and evidenced-based practice.

Along with a broad understanding of health and human services, technology, information systems, leadership, and the culture of healthcare, students apply health informatics knowledge through experiential learning opportunities with case studies, research, simulations, and a capstone project. Graduates are prepared for various roles related to leveraging technology to enhance the collection, communication, exchange, aggregation, analysis, and use of information across the health care ecosystem.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Evaluate the healthcare delivery system in the US and the impact of social, cultural, political, economic, and environmental factors affecting the management and operation of healthcare organizations.
- Evaluate health data management standards, technologies and methods to improve the quality, efficiency, equity and safety of healthcare practice and organization.
- Develop policies and technologies to protect data integrity and validity, including information privacy and security policies and procedures.
- Develop strategies for improving healthcare delivery and achieving institutional strategic initiatives using information systems and technologies.
- Evaluate leadership principles and practices in health information technology staff development, technology adoption and change management in a healthcare organization.
- Evaluate a healthcare organization's processes and systems to ensure compliance with ethical, legal and regulatory mandates and professional standards of health information technology.
- Apply statistical and research methodologies to implement evidence-based health information technology management practice and healthcare quality improvement.
- Communicate knowledge of health information systems and technology to stakeholders of the healthcare ecosystem.

Degree Requirements

To receive a MS in Health Informatics, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree. Refer to the section on graduate admissions requirements for specific information regarding application and evaluation.

Core Requirements

(11 courses; 49.5 quarter units)

HCA 600	U.S. Healthcare System
HTM 552	EHR Meaningful Use
CIS 601	Information Systems Strategies

COH 602	Biostatistics
HCA 626	Healthcare Information Systems <i>Prerequisite: HCA 620</i>
HCA 622	Quality Appraisal & Evaluation <i>Prerequisite: HCA 600, HCA 610, HCA 620 and COH 606</i>
COH 611	Public Health Research Methods
HTM 660	System Management and Planning
HTM 520	Health Information Exchange
HTM 680	Health Informatics Case Study <i>Prerequisite: HTM 520, HTM 552 and HTM 660</i>
HTM 692	Health Informatics Capstone <i>Prerequisite: HTM 680</i>

Please note that prerequisites for HCA and COH courses are not required for students in the MS Health Informatics program. HTM prerequisites are required.

Program Elective

(1 course; 4.5 quarter units)

LED 604	Leading Change and Adaptation
COH 613	Public Health Informatics <i>Prerequisite: COH 606 and COH 612</i>
HCA 663	Healthcare Accounting/Finance <i>Prerequisite: HCA 628</i>
CIS 604	Management and Security <i>Prerequisite: CIS 601</i>
CIS 606	End User Information Systems <i>Prerequisite: CIS 601</i>
HCA 670	Healthcare Leadership <i>Prerequisite: HCA 624</i>
HCA 691	Healthcare Internship <i>Prerequisite: HCA 600, COH 602, HCA 610, HCA 620, HCA 622, COH 606, HCA 624, HCA 626, HCA 628, HCA 630, HCA 660, HCA 663, COH 611, HCA 670, and permission by instructor</i>

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