

HEALTH INFORMATION TECHNOLOGY, M.H.I.T.

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The Masters of Health Information Technology (MHIT) is an interdisciplinary program with the Arnold School of Public Health and the College of Nursing. The program is housed within the Integrated Information Technology (IIT) Department in the Molinaroli College of Engineering and Computing. This professional degree program prepares students with expertise in management of both health care systems and information technology. It is designed to create a workforce of highly skilled IT experts and managers in healthcare, and to provide leadership and know-how as the USA moves toward a more technologically advanced and efficient healthcare system.

Learning Outcomes

1. Students use and apply current technical concepts and practices in the foundational health and information technology domains.
2. Students are able to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of health IT.
3. Students are able to integrate health IT based solutions into the user environment effectively.
4. Students are able to identify health IT best practices and standards and their application.
5. Students are able to assist in the creation of an effective health IT project plan.

Admission Requirements

Beyond completing the normal application process through the graduate school, applicants to the MHIT program must have an undergraduate grade point average (GPA) of at least a 3.0 and submit GRE or GMAT scores. An admissions scorecard will be used to evaluate applicants, weighing the applicant's GPA, test scores, reference letters, previous professional experience, and career goal statement. This will allow the balancing of test scores, GPA, experience in or motivation for a health IT career, and letters of recommendation. Applicants with prior graduate degrees may be considered for waiver of GRE/GMAT scores on a case-by-case basis. Applicants without coursework in spreadsheets and databases may be conditionally admitted to allow completion of required prerequisite courses before full admission is granted.

Degree Requirements (36 Hours)

Students take a combined 36 credit hours of coursework from both the IIT Department and from the Arnold School of Public Health. Students take a core of six courses (18 credit hours), four from IIT and two from the Arnold School's Department of Health Services Policy and Management. Students then choose four elective courses (12 credit hours), including at least one from Integrated Information Technology and one from the Arnold School of Public Health, and complete an internship of six credit hours.

The required internship (6 credit hours) consists of a minimum of 250 hours of approved health information technology work experience to be completed during the summer. It also requires a research paper, which will be evaluated as the student's comprehensive assessment of program learning outcomes. The integration of work experience with academic research is designed to provide a structured format for students to reflect on their work experience and relate it to content and theory learned across the program.

Courses are conducted online or in a traditional classroom setting offered in the evenings and weekends to fit the schedules of working professionals. Depending on their professional experience and interest, students can tailor their program to gain breadth and depth in either the health or information technology components. Students with undergraduate degrees or extensive professional experience in healthcare would take most of their electives in information technology, while students with undergraduate degrees or experience in information technology would take their electives from the health component.

Core Courses (18 Hours)

Course	Title	Credits
ITEC 747	Management of Health Information Systems	3
ITEC 752	Systems Analysis & Design for Health Applications	3
ITEC 764	Project Management for Health Information	3
ITEC 770	Health IT Database Systems	3
HSPM 700	Approaches and Concepts for Health Administration	3
or PUBH 700	Perspectives in Public Health	
HSPM 768	Health Services Administration II	3
Total Credit Hours		18

Health Electives (3 - 12 Hours)

Any combination of minimum of three to maximum of 12 credit hours.

Course	Title	Credits
Select 3-12 hours of the following:		3-12
BIOS 710	Effective Data Management for Public Health	
HSPM 711	Health Policy	
HSPM 712	Health Economics	
HSPM 726	Applied Public Health Law for Administrators	
HSPM 730	Financing of Health Care	
HSPM 769	Organizational Behavior	
HSPM 777	Healthcare Policy and Principles of Health Insurance	
HSPM 791	Selected Topics	
NURS 717	Application of Basic Statistics for Nursing Practice & Service Management	
NURS 734	Conceptual Basis of Health Systems	
NURS 738	Financing of Health Care	
Other health electives with prior approval by the Graduate Director		
Total Credit Hours		3-12

Information Technology Electives (3 - 12 Hours)

Any combination of minimum of three to maximum of 12 credit hours.

Course	Title	Credits
Select 3-12 hours of the following:		3-12
ITEC 590	Special Topics in Integrated Information Technology	
ITEC 743	Health Information Privacy and Security	
ITEC 745	Telecommunications for Health Information Technology	
ITEC 762	Health Information Technology Usability and Interface Design	
ITEC 775	Large-Scale Health and Information Systems	
ITEC 776	Health Information Technology and Clinical Transformation	
ITEC 790	Special Topics in Informatics	
ITEC 795	Independent Study in Health Information Technology	
Total Credit Hours		3-12

Internship (6 Hours)

Course	Title	Credits
ITEC 748	Internship in Information Technology	6
Total Credit Hours		6