

Health and Medical Informatics Program Overview



**BRANDEIS UNIVERSITY
RABB SCHOOL OF CONTINUING STUDIES**

**DIVISION OF
GRADUATE PROFESSIONAL STUDIES**

What Is Health & Medical Informatics (HMI)?



- Application of principles of computer and information science to the effective organization, analysis, management, and use of information in health care
- Addresses both the core technologies and the standards
- With evolving health care reform, the development, implementation, evaluation, and management of information technology solutions are critical

MSHMI Advantages: Skills



- Graduates from the MSHMI Program will be able to:
 - Facilitate the development of information technologies to improve health care delivery and cost efficiencies
 - Gain an in-depth understanding of new and existing health information management systems
 - Become proficient in the “language” of healthcare, navigate the rules around using medical data
 - Utilize health information technology for decision support, knowledge management, strategic planning, to optimize cost efficiencies in the health care system
 - Effectively interface between the data systems developers and the user community

MSHMI Required Courses



- Total of 10 courses
- Six Required Courses:
 - Perspectives on Health/Medical Information Systems
 - Health Data and Electronic Health Records (EHRs)
 - Health/Medical Information Systems Security
 - Data Analysis and Decision Support for Health Informatics
 - Foundations of Project Management
 - Leadership, Team-building, and Decision Making or Professional Communication

MSHMI Electives



- Four Elective Courses from among:
 - Biological Database Systems
 - Business Models and Systems of Health and Medical Informatics
 - Data Warehousing and Data Mining
 - Emerging Technologies in Health/Medical Informatics
 - Independent Study Project
 - Introduction to R for Bioinformatics
 - Principles of Incident Response and Disaster Recovery
 - Probability and Statistics
 - Securing Applications, Web Services, and SOA
 - Select one
 - ✦ Strategic IT Management: Organizational Strategy
 - ✦ Strategic IT Management: Operational Strategy
 - ✦ Leadership, Team-Building, and Decision Making or Professional Communication

MSHMI Advantages: Quality



- **Courses**
 - Developed by expert professionals in the field
 - Monitored by oversight body of industry professionals
 - Evolve with the industry as new challenges emerge
 - Adhere to comprehensive standards for distance learning
- **Instructors**
 - Expert professionals in the field
 - Trained in distance learning instructional methods

MSHMI Advantages: Flexibility



- Part-time
- Open course enrollment
 - No GRE
 - Apply for Admission any time before your 4th course
- Three 10-week terms: fall, spring, summer
- Distance learning courses
 - Participate from anywhere around the world
 - Asynchronous; no required meeting days/times
- Flexible curricula

MSHMI Careers



- Health and Medical Information Professionals
 - Health care technologist
 - Health care systems analyst
 - Health services project administrator
 - Administrator of quality and accountability initiatives
 - Health care systems administrator
 - Medical and health services manager
 - Network and systems administrator
 - Data communication analyst
 - Physician practice manager
 - Health care systems engineer
 - Health care systems architect
 - Health care systems integration engineer

More Information



- Contact the GPS office
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- Explore our web site
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Thank you for your attention!