MS in Health Informatics and Bioinformatics with Emphasis in Bioinformatics

- Degree Requirements (p. 1)
- Sample Plan of Study (p. 1)
- Thesis/Non-Thesis Requirements (p. 1)
- Financial Aid (p. 1)
- Executive MSHI Program (p. 2)
- PhD in Informatics (p. 2)
- Admissions (p. 2)

Degree Requirements

The residential MS in Health Informatics (MSHI) curriculum requires 37 credit hours of course work, which include foundational coursework in health information technology as well as health administration. Prior coursework in computer science is not required. Residential MSHI students have the option to complete a 12-week internship during the summer following their first year, although it is not required for the degree.

HMI's executive-in-residence will work with HI students who wish to complete an internship to find an appropriate placement. For a list of recent internship placements, please see https://medicine.missouri.edu/departments/health-management-and-informatics/graduate-degrees-programs/residential-mha-program, administrative internship section.

The MSHI curriculum integrates learning across computer science, health informatics, and health administration, and also develops students’ research interests. Students must maintain a minimum 3.0 cumulative MU graduate grade point average to earn the Master's degree. Individuals with three or more years of professional experience are encouraged to apply for admission to the Executive MSHI cohort (please see Executive plan of study information below).

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMI 7410</td>
<td>Introduction to the US Health Care System</td>
<td>3</td>
</tr>
<tr>
<td>HMI 7430</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HMI 7440</td>
<td>Health Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8435</td>
<td>Information Security, Evaluation and Policy</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8437</td>
<td>Data Warehousing and Data/Text Mining for Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8441</td>
<td>Biomedical and Health Vocabularies and Ontologies</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8443</td>
<td>Enterprise Information and Solutions Architecture for Strategic Healthcare Operations</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8571</td>
<td>Decision Support in Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8550</td>
<td>Health Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8610</td>
<td>Consumer Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HMI 8870</td>
<td>Knowledge Representation in Biology and Medicine</td>
<td>3</td>
</tr>
</tbody>
</table>

Thesis/Non-Thesis Requirement

Residential MSHI students have the option to complete a formal Master’s thesis to be submitted to the Office of Graduate Studies. Students who choose not to complete a thesis must complete a substantial independent research project. All MSHI students must present their thesis or independent research during their oral comprehensive examination in their final semester.

Financial Aid

Further information about costs, financial aid, and external scholarship opportunities is available on the HMI Department’s website at: http://hmi.missouri.edu/prospective/financial_aid.html.
Executive MSHI Program

Informatics PhD Program

MU also offers a PhD in Informatics with emphasis in Health Informatics through the MU Informatics Institute (http://muii.missouri.edu).

Admissions Requirements

Applicants are required to meet two sets of minimum qualifications for admission: the requirements of the MSHI program (http://hmi.missouri.edu/prospective/admissions_criteria.html) and the minimum requirements of the Graduate School (https://gradschool.missouri.edu/admissions/eligibility-process). Because requirements vary, you must refer to a degree program's graduate admission page to learn about specific admission criteria, application deadlines, eligibility and application process. Before official admissions to the University of Missouri, your application materials will be reviewed by both the degree program to which you've applied and the Office of Graduate Studies.

Deadline for Fall entrance: Rolling; Priority deadline March 1

A minimum of a baccalaureate degree from an accredited institution

Undergraduate GPA: 3.0 during the last 60 hours of undergraduate course work and any subsequent graduate course work

Minimum TOEFL scores: iBT 100, PBT 603

- Minimum Academic IELTS scores: Overall 7.5
- Minimum GRE Scores: Verbal + Quantitative 50th percentile
- In lieu of GRE, minimum GMAT score: 50th percentile. HMI also accepts LSAT and MCAT scores. GRE scores are not required for applicants to the Executive cohort.

Required Application Materials

Master's program applicants should apply online through the Graduate School (http://gradschool.missouri.edu/admissions/apply) application system. When completing the online application, you will have an opportunity to upload/attach additional documents. Please include the following documents:

- an updated résumé or curriculum vitae;
- a personal essay that:
  - outlines your professional plans and career objectives;
  - explains how you became interested in health services management/health informatics and how your prior training and experience would help your career;
  - includes specific issues and problems in health care you consider challenging and why;
  - indicates if you intend to apply to the traditional (residential) on-campus degree program or the distance education (executive) format

Other required documents:

- Three letters of recommendation (submitted through the Graduate School application system (http://gradschool.missouri.edu/admissions/apply))
- Official GRE/GMAT score report (Residential Students only)
  You may also be required to submit other documentation and in some cases complete prerequisite courses. Below is a checklist to help make sure your application is complete:
  - Request to re-enroll form (for previously admitted students only)
  - Application for Change of Degree form (for students already enrolled in a Master's degree or Graduate Certificate program)
  - Letter of support from your employer (Executive Students only)
  - Official TOEFL score report (Residential Students only - have official results sent to us: institution code is 6875, our department code is 25 - minimum score of 100 on the Internet-based exam required)
  - Prerequisites - links to information about prerequisites for each degree program are available at http://hmi.missouri.edu/prospective/rmiha_description.html

Admissions Contact

Veronica Lemme, MPA
CE740 CS&E Building, DC006.00
One Hospital Drive
Columbia, MO 65212
http://hmi.missouri.edu
(573) 884-0698
lemmev@health.missouri.edu