HEALTH INFORMATICS, MS HEALTH ADMINISTRATION INFORMATICS SPECIALIZATION

This specialization is designed for students typically involved in health care business, administrative or management roles in a wide variety of settings such as health care organizations, insurers, consulting, technology firms and government, among others.

Curriculum

Core Courses (5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MHI 401-DL</td>
<td>American Health Care System</td>
</tr>
<tr>
<td>MHI 403-DL</td>
<td>Fundamentals of Health Informatics</td>
</tr>
<tr>
<td>MHI 407-DL</td>
<td>Legal, Ethical, and Social Issues</td>
</tr>
<tr>
<td>MSHA 480-DL</td>
<td>Health Analytics Leadership</td>
</tr>
<tr>
<td>MHI 498-DL</td>
<td>Capstone Project</td>
</tr>
<tr>
<td>or MHI 590-0</td>
<td>Thesis Research</td>
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</tbody>
</table>

Specialization Courses (7 units)

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<tbody>
<tr>
<td>MHI 402-DL</td>
<td>Introduction to Clinical Thinking</td>
</tr>
<tr>
<td>MHI 404-DL</td>
<td>Health Care Operations</td>
</tr>
<tr>
<td>MHI 408-DL</td>
<td>Information System Acquisition &amp; Lifecycle</td>
</tr>
<tr>
<td>MHI 413-DL</td>
<td>Consumer Digital Health</td>
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Any three electives

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<tr>
<td>MHI 405-DL</td>
<td>HIT Standards and Interoperability</td>
</tr>
<tr>
<td>MHI 406-DL</td>
<td>Decision Support Systems and Health Care</td>
</tr>
<tr>
<td>MSHA 405-DL</td>
<td>Data Literacy and Analytics in Healthcare</td>
</tr>
<tr>
<td>or CIS 417-DL</td>
<td>Database Systems Design &amp; Implementation</td>
</tr>
<tr>
<td>MSHA 412-DL</td>
<td>Feature Engineering and Text Mining</td>
</tr>
<tr>
<td>or MS_IDS 453-DL</td>
<td>Introduction of Techniques of Predictive Analytics</td>
</tr>
<tr>
<td>MS_IDS 401-DL</td>
<td>Models and Theories of User-Centered Design</td>
</tr>
<tr>
<td>MS_IDS 409-DL</td>
<td>Data Science, Management, and Business Strategy</td>
</tr>
<tr>
<td>MS_IDS 452-DL</td>
<td>Intro to Data Collection and Analytics</td>
</tr>
<tr>
<td>MSDS 402-DL</td>
<td>Research Design for Data Science</td>
</tr>
<tr>
<td>MSDS 475-DL</td>
<td>Project Management</td>
</tr>
<tr>
<td>CIS 413-DL</td>
<td>Telecommunications and Computer Networks</td>
</tr>
<tr>
<td>CIS 436-DL</td>
<td>Data and Digital Platforms</td>
</tr>
<tr>
<td>MSGH 417-DL</td>
<td>Global Health Systems</td>
</tr>
<tr>
<td>MSGH 458-DL</td>
<td>Global Health and Technology</td>
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</tbody>
</table>

About the Final Project

As a culminating experience, students will put into practice the knowledge and skills they have learned during their coursework through a Capstone Project. Students will have the opportunity to develop and implement a Health Informatics project with an industry or university partner or in their workplace. Alternatively, students can develop a culminating, two-part project. This alternative capstone project will leverage health informatics to provide an innovative, consultative response to a need or problem arising as part of a real-world case study. The project will challenge each student to conduct and integrate comprehensive research and to apply knowledge, skills, and competencies built through coursework they have completed in the MHI program.

In addition to each student’s individual research and project development, the course emphasizes collaboration with fellow students by using the Canvas discussion board to crowdsource strategies and approaches for their Capstone Project. Each student will work with the instructor to establish an “Advisory Committee” for their project which, ideally, will be comprised of a “Knowledge Expert” from the organization they are working with and a faculty advisor from the Northwestern University Health Informatics program.

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