

MS in Health Informatics (Online)

Admission Requirements

Applicants will be considered on an individual basis by the BHIS Committee on Academic Affairs. Individuals determined to be deficient in one or more areas may be recommended to the Graduate College for admission upon the condition that any deficiencies are remedied through appropriate coursework.

In addition to the Graduate College minimum requirements, applicants must meet the following program requirements:

- **Baccalaureate Field** From an accredited institution that is equivalent to a U.S. bachelor's degree.
- **Grade Point Average** At least 3.00/4.00 for the final 60 semester (90 quarter) hours of undergraduate study or for all terminal graduate degrees. In addition to the previous requirements, the cumulative GPA for any graduate-level course work must be at least 3.00/4.00.
- **Minimum English Competency Test Score**
 - **TOEFL** Applicants taking the iBT Test must have a minimum score of 95, with subscores of Reading 24, Listening 22, Speaking 24, and Writing 24. Applicants taking the revised Paper-Delivered Test must have a minimum score of 60, with subscores of Reading 19, Listening 17, Writing 21, **OR**,
 - **IELTS** 7.0, with subscores of 6.5 for all four subscores, **OR**,
 - **PTE-Academic** 54, with subscores of Reading 51, Listening 51, Speaking 53, and Writing 56.
- **Transcripts** Registrar-issued transcripts required from the following:
 - All colleges or universities attended that conferred a degree and any earned credit hours
 - All institutions where post-bachelor's course work was completed and credited

Transcripts must state degree conferred from awarding institution, including grading scale legends, transcript key, mark up sheets (usually on the back of the transcript).

International students should also refer to these [requirements for international applicants](#).

- **Letters of Recommendation** Two required using the program's criteria.
- **Personal Statement** Required. The statement should address the questions on the form provided in the application.
- **Resume** Applicant should submit a resume that highlights education and work experience.
- **Other Requirements** Prior academic work must include a course in basic computing skills (or comparable experience) and one course in graduate-level basic statistics taken within the last five years for students in the project research and thesis tracks. The latter may be taken upon matriculation. The following prerequisites for the health informatics program may be taken upon matriculation, as equivalent coursework, or as healthcare experience: HIM 486 and BHIS 406.

Degree Requirements

In addition to the Graduate College minimum requirements, students must meet the following program requirements:

| Code | Title | Hours |
|---|---|-------|
| Prerequisites | | |
| This degree requires completion of the following prerequisite courses (or equivalent course work, professional experience, or demonstration of proficiency). These courses are most typically taken upon admission to the degree program. | | |
| HIM 486 | Foundations of Health Information Management | |
| BHIS 406 | Medical Terminology for Health Information Management | |

- **Minimum Semester Hours Required** 38.
- **Coursework**

| Code | Title | Hours |
|--|---|-------|
| Required Courses for All Tracks | | |
| BHIS 437 | Health Care Data | |
| BHIS 499 | Information Sources in Biomedical & Health Information Sciences | |
| BHIS 503 | Communication Skills in Health Informatics | |
| BHIS 505 | Ethics and Legal Issues in Health Informatics | |
| BHIS 510 | Health Care Information Systems | |
| BHIS 515 | Management of Health Care Communication Systems | |
| BHIS 520 | Health Information Systems Analysis and Design | |
| BHIS 525 | Social and Organizational Issues in Health Informatics | |
| BHIS 593 | Health Informatics Capstone Experience | |

Required Courses for Project and Thesis Research Tracks

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|-------------|---|--|
| BHIS 500 | Strategic Inquiry in Biomedical and Health Information Sciences | |
| BHIS 595 | Seminar in Biomedical and Health Information Sciences | |
| BHIS 597 | Project Research in Biomedical and Health Information Sciences | |
| or BHIS 598 | Thesis Research in Biomedical and Health Information Sciences | |

Required Courses for Coursework-Only Track

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| BHIS 530 | Topics in Health Informatics | |
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Electives

Choice of electives to reach the minimum 38 hours should be guided, in consultation with the advisor, by the area of interest and the student's professional experience.

Coursework-Only Track Recommended Electives

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| BHIS 508 | Q Research Methodology – Qualitative Research | |
| BHIS 509 | Informatics for the Clinical Investigator | |

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| BHIS 511 | Application of Health Care Information Systems |
| BHIS 514 | Patient Safety Topics in Health Informatics |
| BHIS 517 | Healthcare Data Security and Cybersecurity Foundations |
| BHIS 527 | Knowledge Management in Healthcare Organizations |
| BHIS 528 | Consumer Health Informatics |
| BHIS 529 | Transforming Healthcare using Business Intelligence and Predictive Analytics |
| BHIS 532 | Foundations of Clinical Decision Support Systems |
| BHIS 533 | Practical Implementation of Clinical Decision Support Systems |
| BHIS 537 | Health Informatics Product Management |
| BHIS 538 | Health Care I.T. Administration |
| BHIS 543 | Health Care Project Management |
| BHIS 546 | Leadership Development in Health Informatics |
| BHIS 554 | Health Informatics Business Intelligence Tools and Application |
| BHIS 580 | Practicum in Health Informatics |

Concentration in Health Data Science

| Code | Title | Hours |
|-----------------------------------|--|-------|
| Concentration Requirements | | |
| BHIS 540 | Essentials of Health Data Science | |
| BHIS 575 | Applied Statistics for Health Data Science | |
| Select two of the following: | | |
| BHIS 527 | Knowledge Management in Healthcare Organizations | |
| BHIS 529 | Transforming Healthcare using Business Intelligence and Predictive Analytics | |
| BHIS 532 | Foundations of Clinical Decision Support Systems | |
| BHIS 533 | Practical Implementation of Clinical Decision Support Systems | |
| BHIS 541 | Health Data Analytics | |
| BHIS 542 | Artificial Intelligence | |
| BHIS 554 | Health Informatics Business Intelligence Tools and Application | |
| BHIS 561 | Programming for Health Analytics | |
| BHIS 567 | Healthcare Data Visualization | |
| BHIS 580 | Practicum in Health Informatics | |

Concentration in Consumer and Mobile Health Informatics

| Code | Title | Hours |
|-----------------------------------|---------------------------|-------|
| Concentration Requirements | | |
| BHIS 522 | Mobile Health Informatics | |

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|------------------------------|--|
| BHIS 528 | Consumer Health Informatics |
| Select two of the following: | |
| BHIS 504 | Qualitative Methods and Health IT Evaluation |
| BHIS 517 | Healthcare Data Security and Cybersecurity Foundations |
| BHIS 523 | Digital Health and Advanced Topics in Mobile Health Technologies |
| BHIS 535 | Organizational Dynamics and Health Informatics |
| BHIS 570 | Human Factors and Cognition in Health Information Technology |
| BHIS 580 | Practicum in Health Informatics |

Concentration in Leadership in Health Informatics

| Code | Title | Hours |
|-----------------------------------|--|-------|
| Concentration Requirements | | |
| BHIS 543 | Health Care Project Management | |
| BHIS 546 | Leadership Development in Health Informatics | |
| Select two of the following: | | |
| BHIS 535 | Organizational Dynamics and Health Informatics | |
| BHIS 537 | Health Informatics Product Management | |
| BHIS 538 | Health Care I.T. Administration | |
| BHIS 570 | Human Factors and Cognition in Health Information Technology | |
| BHIS 580 | Practicum in Health Informatics | |

Other Requirements

- **Comprehensive Examination** None.
- **Thesis, Project, or Coursework-Only Option**
 - *Thesis*: Students must earn at least 8 hours in BHIS 598.
 - *Project*: Students must earn at least 4 hours in BHIS 597.
 - *Coursework-Only*: Requires coursework as indicated above and electives to total a minimum of 38 semester hours.
- **Other Requirements**
 - *Continuous Registration*: Students who have completed all degree requirements except the thesis/project must register for zero semester hours to maintain continuous registration.