

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 iBT** 95, with subscores of Reading 24, Listening 22, Speaking 24, and Writing 24, **OR**,
 - **IELTS Academic** 7.0, with 6.5 in each of the 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:

- **Minimum Semester Hours Required** 38.

Code	Title	Hours
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Prerequisites

This degree requires completion of the following prerequisite courses (or equivalent coursework, 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

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	Informatics and Population Health
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

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

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

BHIS 508	Q Research Methodology – Qualitative Research
BHIS 509	Informatics for the Clinical Investigator
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	Healthcare Leadership and Digital Health Strategy
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	
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	Healthcare Leadership and Digital Health Strategy	
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.