HEALTH INFORMATICS, M.S.

Saint Louis University's 30-credit Master of Science in Health Informatics is offered fully online and fully in-person, designed for clinicians, health care professionals and researchers. Health care organizations face increasing complexity in data management, electronic health systems, and evidence-based decision-making. There is a pressing need for professionals skilled in health informatics to improve patient care, enhance operational efficiency, and address health disparities. SLU's M.S. in health informatics addresses this need by providing applied, rigorous training in informatics tools, clinical workflows, and ethical, data-driven decision-making. The flexible format ensures accessibility for working professionals, preparing graduates to lead innovation and improve healthcare outcomes locally, nationally, and globally.

Curriculum Overview

The curriculum integrates health data management, analytics, clinical systems, and ethical practices with applied projects and a capstone experience. It leverages existing SLU faculty, library, IT and instructional resources, requiring no additional infrastructure. Graduates will be prepared to implement innovative, equitable, and effective health informatics solutions while upholding SLU's Jesuit values of social responsibility, ethical leadership, and service to others.

Admission Requirements

- Complete Application form
- Transcripts from most recent degree(s)
- Résumé or curriculum vitae
- GRE not Required

Scholarships and Financial Aid

For more information about Saint Louis University scholarships and financial aid, please visit the Office of Student Financial Services (https://www.slu.edu/financial-aid/types-of-aid/).

Tuition

Tuition	Total Program Cost
On-Ground M.S. Artificial Intelligence in Medicine, M.S. Health Data Science and M.S. Health Informatics	$42,000

Additional charges may apply. Other resources are listed below:

Information on Tuition and Fees (https://catalog.slu.edu/academic-policies/student-financial-services/tuition/)

Miscellaneous Fees (https://catalog.slu.edu/academic-policies/student-financial-services/fees/)

Information on Summer Tuition (https://catalog.slu.edu/academic-policies/student-financial-services/tuition-summer-current/)

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Accreditation

The Saint Louis University School of Medicine is fully accredited by the Liaison Committee on Medical Education (LCME), the accrediting body for medical education in the United States. You may verify the status by contacting the LCME secretariats at lcme@aamc.org or reviewing the current status at lcme.org/directory/accredited-u-s-programs/ (https://lcme.org/directory/accredited-u-s-programs/).

Learning Outcomes

1. Demonstrate mastery of the theories, principles, and applications of health informatics, including system design, EHR implementation, and interoperability standards that support high-quality, efficient health care delivery.
2. Apply database design, data modeling, statistical analysis, and machine learning methods to organize, analyze and interpret clinical and administrative health data for evidence-based decision-making.
3. Interpret and apply federal, state and organizational policies including HIPAA and HITECH to ensure data privacy, information security, and ethical use of health data.
4. Utilize leadership, project management, and implementation of frameworks to plan, execute, and evaluate health IT and informatics projects across clinical and population health settings.
5. Integrate informatics competencies in real-world or research environments through practicum or capstone experiences, demonstrating critical thinking, collaboration and effective communication.

Requirements

Code	Title	Credits
HDS 5130	Healthcare Organization, Management, and Policy	3
HDS 5310	Analytics, Statistics & Visualization Methods in Health Data Science	3
or AA 5000	Foundations of Analytics	
HDS 5330	Predictive Modeling and Health Machine Learning	3
HI 5210	Health Privacy, Security, and Regulatory Compliance	3
HI 5220	Clinical Decision Support & Quality Improvement	3
HI 5260	Electronic Health Record Implementation and Management	3
HMP 5130	Health Information Systems	3
ORES 5160	Data Management and Programming in Healthcare	3
or AA 5100	Information Retrieval	
or BST 5400	Applied Data Management	
ORES 5210	Foundations of Medical Diagnosis and Treatment	3
HI 5960	Capstone Experience	3
or HI 5910	Health Informatics Internship	
Total Credits		**30**

Additional Academic Requirements

Saint Louis University has graduation requirements for all degree-seeking students. Students are responsible for understanding these Graduation

Requirements (https://catalog.slu.edu/academic-policies/academic-policies-procedures/graduation-requirements/).

Academic Standing

Saint Louis University has undergraduate and graduate standards regarding a student's Academic Standing. Students are responsible for understanding the Academic Standing policy (https://catalog.slu.edu/academic-policies/academic-policies-procedures/academic-standing-undergraduate/).

Roadmap

This roadmap is just one example of a semester-by-semester plan of study for this program. There are other plans students can and do take. The plan of study for each particular student is established in consultation with each student's academic advisor; *this roadmap does not replace academic advising appointments.*

Roadmap notes:

- This Roadmap assumes full-time enrollment unless otherwise noted.
- Courses/Milestones marked with an "!" are critical and must be completed in the semester listed in the Roadmap to ensure a timely graduation.
- Course availability and sequencing are subject to change.

Course	Title	Credits
Year One		
Fall		
HMP 5130	Health Information Systems	3
ORES 5210	Foundations of Medical Diagnosis and Treatment	3
ORES 5160	Data Management and Programming in Healthcare	3
HI 5210	Health Privacy, Security, and Regulatory Compliance	3
	Credits	**12**
Spring		
HDS 5130	Healthcare Organization, Management, and Policy	3
HDS 5310	Analytics, Statistics & Visualization Methods in Health Data Science	3
HI 5220	Clinical Decision Support & Quality Improvement	3
HI 5260	Electronic Health Record Implementation and Management	3
	Credits	**12**
Summer		
HDS 5330	Predictive Modeling and Health Machine Learning	3
HI 5960	Capstone Experience	3
	Credits	**6**
	Total Credits	**30**

Contact Us

For more information about this program, please call 314-977-8062 or email somanalytics@health.slu.edu (somanalytics@slu.edu).