

HEALTH INFORMATICS, MASTER OF SCIENCE (MS)

Program Learning Outcomes

- Critically analyze and evaluate the effectiveness of a software system.
- Make informed choices among alternative configurations for the design, development, and implementation of software systems.
- Write clear and concise user directions, executive summaries, for technical and non-technical personnel.
- Perform data analysis and data mining to solve problems in health industry.
- Recognize the ethical, legal, and social impacts of deploying an electronic system in an interconnected global society.
- Solve health industry problems related to the implementation and deployment of computing systems to address the needs of an organization.
- Use oral and electronic communication to effectively communicate directions, employee critique, and summary information.
- Plan for and ensure the security, integrity, and privacy of data and the confidentiality of its use.

Related Links

Health Informatics, MS Program Page ([https://www.sru.edu/academics/graduate-programs/health-informatics-\(master-of-science\)/](https://www.sru.edu/academics/graduate-programs/health-informatics-(master-of-science)/))

Computer Science Department Page (<https://www.sru.edu/academics/colleges-and-departments/ches/departments/computer-science/>)

Health Informatics Fact Sheet (<https://www.sru.edu/documents/programs/factsheets/graduate/FS-HealthInfo.pdf>)

Professional Licensure/Certification Page (<https://www.sru.edu/students/student-consumer-information/professional-licensure/>)

Curriculum Guide

Code	Title	Hours
Health Informatics Courses		
CPSC 602	Introduction to Health Informatics	3
CPSC 605	Data Mining and Data Analysis	3
CPSC 606	Data Visualization	3
CPSC 620	Healthcare Ethics, Law, Privacy and Information Assurance	3
CPSC 623	Database Systems, Modeling and Security	3
CPSC 685	Big Data Analytics	3
CPSC 668	Software Engineering and Project Management	3
HLTH 628 or STAT 603	Biostatistics for Public Health Statistical Methods	3
HLTH 605	Health Services Administration	3
HLTH 631	Foundations of Public Health	3
Health Informatics Capstone or Informatics Internship		
CPSC 720	Health Informatics Capstone	3

or CPSC 750 Informatics Internship

Total Hours 33

Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*

PASSHE - Pennsylvania State System of Higher Education Institutions

Major Code: 9HIN

Recommended Course Sequence

Full-Time Course Sequence

Course	Title	Hours
First Year		
Fall		
CPSC 602	Introduction to Health Informatics	3
CPSC 605	Data Mining and Data Analysis	3
HLTH 631	Foundations of Public Health	3
HLTH 628 or STAT 603	Biostatistics for Public Health or Statistical Methods	3
Hours		12
Winter		
HLTH 605	Health Services Administration	3
Hours		3
Spring		
CPSC 620	Healthcare Ethics, Law, Privacy and Information Assurance	3
CPSC 623	Database Systems, Modeling and Security	3
CPSC 685	Big Data Analytics	3
CPSC 668	Software Engineering and Project Management	3
Hours		12
Summer		
CPSC 606	Data Visualization	3
CPSC 720 or CPSC 750	Health Informatics Capstone or Informatics Internship	3
Hours		6
Total Hours**		33

** This document is meant to serve as a guide. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.

Part-Time Course Sequence

Course	Title	Hours
First Year		
Fall		
CPSC 602	Introduction to Health Informatics	3
CPSC 605	Data Mining and Data Analysis	3
Hours		6
Winter		
HLTH 605	Health Services Administration	3
Hours		3
Spring		
CPSC 620	Healthcare Ethics, Law, Privacy and Information Assurance	3
CPSC 623	Database Systems, Modeling and Security	3
Hours		6
Summer		
CPSC 606	Data Visualization	3
Hours		3
Second Year		
Fall		
HLTH 628 or STAT 603	Biostatistics for Public Health or Statistical Methods	3
HLTH 631	Foundations of Public Health	3
Hours		6
Spring		
CPSC 685	Big Data Analytics	3
CPSC 668	Software Engineering and Project Management	3
Hours		6
Summer		
CPSC 720 or CPSC 750	Health Informatics Capstone or Informatics Internship	3
Hours		3
Total Hours**		33

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