

HEALTH INFORMATICS

MASTER OF SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
COLLEGE OF ENGINEERING AND SCIENCE



DELIVERY METHOD

100% online

START TERMS

Fall A, Fall B, Spring A, Spring B,
Summer A, or Summer B

COMPLETION TIME

Complete in as little as ten months

NUMBER OF CREDITS

33 credits



SlipperyRock
University

A member of Pennsylvania's State System
of Higher Education

EXPERIENCE THE DIFFERENCE

www.sru.edu/graduate

ABOUT THE PROGRAM

Health informatics specialists work in a healthcare institution to establish and maintain the information technology systems within the organization. This involves ensuring that the systems comply with company policies, regulations, and the healthcare laws. Specialists are involved with researching technology systems, planning for the implementation of the chosen system, and analyzing data using data mining processes. The majority of the health informatics specialist positions are in leadership roles that work as a liaison between corporate data management and technology departments to store, retrieve, process and analyze data using the latest hardware and software systems.

Data analytics personnel are those individuals with the programming, modeling, and analysis skills needed to make use of data analysis and Big Data. Between 2015 and 2025, the United States Health Care and Social Assistance industry is expected to add over 36,000 new jobs in these fields, representing a growth rate of 22%, faster than the average of 12% for all occupations in the economy. Market research projects that in 2025, almost 1 in 5 workers in the 150-mile region around SRU will work in the health care and social assistance industry, accounting for more than 17% of regional employment. The national trend is very similar: the industry is expected to make up 14% of the national economy in 2025. This industry is very large and its workforce needs are comparably large.

Slippery Rock University's Master of Science in Health Informatics, offered by the College of Engineering and Science, prepares students to meet the growing demand for highly trained health informatics professionals. The program is interdisciplinary and can be completed in 12 months. The program can be started in any of the terms: Fall A, Fall B, Spring A, Spring B, Summer A, or Summer B.

PROGRAM HIGHLIGHTS

SRU's Master of Science degree in Health Informatics offers:

- 100% online courses and can be completed in 10 to 12 months, if started in Fall term
- Interdisciplinary instruction in healthcare, technology, data analytics and Big Data
- A curriculum that reflects the current industry standards and principles
- Expert faculty with earned doctorates
- Faculty/student research
- Apply any time - Fall A, Fall B, Spring A, Spring B, Summer A, or Summer B

ADMISSION REQUIREMENTS

All applicants must submit the following materials along with a completed online graduate application and non-refundable application fee:

1. Bachelor's degree with a GPA of 3.00 or higher in a computer science, technology, nursing, or health-related major (students with a GPA below 3.00 may apply for conditional admission).
2. Official undergraduate degree transcript(s) and any graduate transcripts.
3. Applicants not satisfying the entry requirements above may apply for conditional admission for up to two semesters with the approval of the program director.

To ensure program currency, students must complete all degree requirements within 4 years with an overall GPA of 3.00, or make special arrangements with the department chairperson.

PROGRAM AWARDS



CURRICULUM GUIDE

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 668	Software Engineering and Project Management	3
CPSC 685	Big Data Analytics	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 or CPSC 750	Health Informatics Capstone Informatics Internship	3
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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

TUITION

Information on current tuition can be found on the main Graduate Admissions website at www.sru.edu/graduate. Financial Aid brochures are available through the Financial Aid Office www.sru.edu/FinAid, or the Office of Graduate Admissions.

TESTIMONIALS

After 15 years working in various IT positions and wanting to diversify my skills, I found that the Health Informatics program was a perfect fit for me. The online format was perfect for my busy schedule, and allowed plenty of flexibility to accommodate a balance between family, working full-time, military obligations, and volunteer work. The faculty was very understanding of my military service and was extremely helpful when deadlines were tight as a result. I found the coursework to be challenging, but fully prepared me for working in the field upon graduation. The curriculum is on par with today's ever-changing healthcare industry. I would absolutely recommend the MSHIM to anyone interested in furthering their knowledge of technology and healthcare." Jon Tomko, SRU graduate '19

"The Health Informatics program at Slippery Rock University is a great program. If you come from the clinical side in health care, it will teach you a lot that isn't known yet. I feel that after taking this program, I feel comfortable going into the industry and working." RYANNE LYFORD, SRU graduate '18

"The diversity of instructor backgrounds and expertise provides an engaging and interactive learning environment. The curriculum mixture directly relates to the challenges faced in the changing healthcare industry. The online format provided the flexibility to work full-time and maintain family relationships all while succeeding at school. All of these elements combined to create an amazing learning experience that has already had an immense impact on my career." MICHAEL C. KEYES, MSHI, SRU graduate '18, Senior Business Intelligence Developer, Analytics & Transformation Manager

"I have been a nurse for 20 years, and decided to make a career change. I chose the Master's program in health informatics because I wanted to gain knowledge in the technical aspect of the healthcare industry. I found the program to be challenging, yet rewarding at the same time. I was able to apply my nursing experience and knowledge in many of the classes that were offered in the program." ALLISON RICHEY, SRU graduate '18

"Having worked in a healthcare setting previously, wanting to shift direction in my career and knowing that I enjoy working with computers, I looked into the Health Informatics Master's program at SRU. The online program fit perfectly with my busy schedule as a stay at home mom and being able to complete the program within 10 months was right on track with the time frame I was looking for. The courses in this program offered exposure to many different aspects of healthcare data analysis, data visualization and the utilization of various software suites. The professors are not only knowledgeable, but also very approachable. I speak from experience when saying this is definitely a growing field. I was offered a position as a data analyst immediately following graduation. I am pleased to say that I have been able to apply the knowledge I gained from this program to my career with a healthcare insurer each day." JOANNA BIENIEK, SRU graduate '18

FOR QUESTIONS ABOUT ACADEMICS AND COURSE SCHEDULING:

Dr. Abdullah Wahbeh
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724.738.4527
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The educational policies and procedures are continually being reviewed and changed in keeping with the mission of the university. Consequently, this document cannot be considered binding and is intended to be used as only an informational guide. Students are responsible for being informed of official policies and regulations for meeting all appropriate requirements.

FOR QUESTIONS ABOUT ADMISSIONS:

Office of Graduate Admissions
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Slippery Rock, PA 16057
www.sru.edu/graduate
724.738.2051 or 877.SRU.GRAD
graduate.admissions@sru.edu