

DATA ANALYTICS

MASTER OF SCIENCE
DEPARTMENT OF MATHEMATICS AND STATISTICS
COLLEGE OF HEALTH, ENGINEERING AND SCIENCE

www.sru.edu/DataAnalytics



ABOUT THE PROGRAM

Harvard Business Review has dubbed the Data Scientist job the most desirable job of the 21st century! Glassdoor calls it a Top 10 Job. This means that demand is fierce and the pay is outstanding. The shortage of data scientists will soon exceed 150,000. This shortage is in addition to a projected shortage of 1.5 million data-savvy managers who can convert data to actionable information. Big data is driving an intense need for data scientists who know what to do with huge amounts of data. Thus, occupations involving data science are exploding.

Slippery Rock University's Master of Science in Data Analytics (MSDA) prepares professionals to work in the rapidly-growing field of data science and big data. The SRU program is aligned with standards established by professional certification programs. Students completing the program will receive a joint certificate in statistical applications and data analytics from SRU and SAS Institute Inc. (www.sas.com). SAS is one of the most widely used software platforms in the world for performing data analytics, statistical analysis and data visualization. SRU is one of a select few institutions in the country that offer joint SAS certification. This will give graduates of the program a significant advantage in the marketplace.

Moreover, the MSDA will provide the training necessary for the Certified Analytics Professional (CAP) exam. The CAP exam is a broad-based analytics exam administered by the Institute for Operations Research and the Management Sciences (INFORMS). INFORMS is the largest professional organization in the world that supports operations research, management science, and data analytics.

PROGRAM HIGHLIGHTS

SRU's Master of Science degree in Data Analytics offers:

- 100% Online Coursework
- A 33-credit program that can be completed in 10 months full-time or two years part-time
- Joint SAS Certification
- Preparation for the CAP exam
- Training in big data analytics, machine learning, and state-of-the-art technologies
- Highly accomplished faculty with big business experience
- Internship option

CURRICULUM (33 CREDITS)

FULL-TIME SCHEDULE:

FALL I STAT 603: Statistical Methods STAT 630: Introduction to Regression CPSC 605: Data Mining MATH 611: Optim Models	WINTER I STAT 656: Statistical Computing MATH 678: Capstone I
SPRING I STAT 660: Advanced Statistical Methods STAT 672: Forecasting & Time Series CPSC 685: Big Data Analytics MATH 668: Model Analysis	SUMMER I MATH 688: Capstone II

TWO-YEAR PART-TIME SCHEDULE:

YEAR ONE	
FALL I STAT 603: Statistical Methods STAT 630: Introduction to Regression	WINTER I STAT 656: Statistical Computing
SPRING I STAT 660: Advanced Statistical Methods STAT 672: Forecasting & Time Series	SUMMER I
YEAR TWO	
FALL II CPSC 605: Data Mining MATH 611: Optim Models	WINTER II MATH 678: Capstone I
SPRING II CPSC 685: Big Data Analytics MATH 668: Model Analysis	SUMMER II MATH 688: Capstone II



SlipperyRock
University

A member of Pennsylvania's State System
of Higher Education

EXPERIENCE THE DIFFERENCE

www.sru.edu/graduate

ADMISSION REQUIREMENTS

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

- Official undergraduate degree transcript(s) and any graduate transcripts
- Students with a GPA below 3.0 with prerequisite coursework may apply for conditional admission
- Complete the following prerequisite courses with a grade of C or better:
 - Differential Calculus
 - Integral Calculus
 - Probability/Inferential Statistics
 - A programming language (C, C++, Java, Python)
- Students are expected to be familiar with multi-variable calculus, linear algebra and mathematical statistics
- All prerequisite courses must be complete before entering the program
- GRE not required



PROFESSIONAL LICENSURE CERTIFICATION

All candidates completing this program are eligible to sit for the Certified Analytics Professional (CAP) examination after 3 years of field experience. While certification is not required for employment, certification can advance your career.

TUITION AND ASSISTANTSHIPS

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

TESTIMONIAL

"The MSDA program provided a rich environment to collaborate with highly-skilled and diverse professors and graduate students with a rigorous curriculum. The knowledge and skills I gained in the program established me as a competitive candidate, and the exceptional support from the faculty put me in the best position to succeed." Matt Belella, Research and Development Engineer at The Pennsylvania State University, SRU Graduate '18

FOR QUESTIONS ABOUT ACADEMICS AND COURSE SCHEDULING:

Dr. Dil Singhabahu
Graduate Coordinator
200K Vincent Science Center
724.738.2521
dil.singhabahu@sru.edu

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.

PROGRAM AWARDS

