



B.S. in Data Science

Data Science at SBU

The Data Science program offers students the basic tools needed to use computer technology to extract knowledge from large data sets.

A Data Science major does relevant coursework in Mathematics, Statistics and Computer Science as well as gains knowledge of an area of application that is of interest to the student. Completion of the program prepares the student for entry level jobs as well as for graduate programs.

Demand for Data Scientists is on the rise, which means a healthy job market for you to enter.

According to the U.S. Bureau of Labor Statistics, employment of Data Scientists is projected to grow 35 percent from 2022 to 2032, much faster than the average for all occupations.

Computer Facilities

Located in the William F. Walsh Science Center, the Department of Computer Science maintains three laboratories for students, who have 24-hour access.

A virtual lab environment allows students to have 24/7 access to virtual machines to test and deploy services for classes and research.

Research Opportunities

Faculty across the university regularly supervise students in independent research projects that intersect with Data Science. These include application areas of nonprofit management, bioinformatics and computer security.

Career Opportunities

As computers fulfill ever more functions in the modern world, the collection of huge stores of data has increased exponentially. Using increasing

computing power, algorithmic sophistication and data storage, the new field of Data Science offers means for extracting knowledge from this data with applications in business, science, medicine, education, journalism, public policy and more.

The Fourth Paradigm, as this type of knowledge extraction is sometimes referred to, stands to offer significant employment opportunities for those properly trained in Mathematics, Statistics and Computer Science. Those most sought after will combine this expertise with background knowledge in an application area.

Degree Requirements

	Credits
DS 107. Intro to Data & Data Analytics	3
DS/DSL 201. Data Science Toolkit	4
DS/DSL 301. Emerging Trends in Data Science	4
DS 351. Data Science Case Studies	3
DS 401 & 402. Senior Comprehensive Project	2+1
Computer Science courses	23
Mathematics courses	13
Data Science electives	9
Data Science subject electives*	9
Foreign language	3
General Education requirements	37
General electives	9
	120

**All students will propose their own three-course sequence with advisor guidance in an area of application interest.*

For more information about the Data Science program, please contact Program Chair Dr. Chris Bopp at cbopp@sbu.edu or (716) 375-2083.