

DATA SCIENCE - BA, BS

Students majoring in data science at St. Catherine University will learn to navigate, model, visualize, summarize, and communicate with data in a vibrantly interdisciplinary and collaborative environment.

Students will create appropriate models to analyze and interpret data, learn to ask pertinent questions, and develop communication skills and ethics involved in data analytics within a variety of contexts among the liberal arts spectrum. Data Science majors will take courses in mathematics, statistics, and computer science to build a solid foundation of analytical and technical skills to apply in a variety of domain (discipline-specific) environments.

If a student decides to pursue a B.S., she will be required to take one full year of either chemistry or physics.

This major is offered in the College for Women only.

Code	Title	Credits
Required Major Courses		
CSCI 1110	Algorithms and Computer Programming I	4
DSCI 1000	Data Visualization	4
DSCI 3100	Data Science I	4
DSCI 3200	Data Science II	4
DSCI 4000W	Data Science Capstone or Data Science Internship	4
MATH 1135	Applied Calculus	4
MATH 2050	Linear Algebra	4
STAT 1090	Statistical Analysis	4
STAT 2080	Statistical Modeling	4
STAT 2090	Statistical Computing	4
Total Credits		40

Code	Title	Credits
Required Supporting Courses		
CSCI 1120	Algorithms and Computer Programming II	4
Select one from:		4
COMM 1030	Speaking to Lead and Influence	
COMM 2090	Small Group Communication	
COMM 3100	Communicating across Cultures, Identities and Differences	
Select one from:		4
PHIL 2200W	Ethics	
PHIL 3300	Ethics in Communication	
PHIL 3400	Biomedical Ethics	
Total Credits		12

Code	Title	Credits
Additional Required Supporting Courses for the B.S. degree (must be taken for a letter grade)		
Select one of the following:		8
CHEM 1110 & CHEM 1120	General Chemistry I with Lab and General Chemistry II with Lab	
PHYS 1110 & PHYS 1120	Introductory Physics I and Introductory Physics II	