



Data Analytics

44 credits

Bachelor of Science

Data is collected and stored everywhere by nearly everyone. The Data Analytics program provides students with the knowledge and skills needed to make these data useful. Data Analytics provides students with the opportunity to forge a career in an emerging, exciting, and dynamic field. The applications include solving societal and corporate challenges that arise such as post-disaster response, fraud detection, and investment strategies. The Data Analytics major involves interdisciplinary coursework, research, and collaboration.

Employment: Nearly every industry collects and uses data. Any concerned business large enough to afford a Data Analyst will employ one. Recently, the U.S. Bureau of Labor Statistics and other sources predicted the growth rate of this profession to be between 20% and 28% over the years 2018 to 2028.

Data scientists and analysts can work in government, industry, and nonprofit non-government agencies.

The different areas include

- Academia
- Finance
- Healthcare
- Media
- Technology
- Biomedical fields



Foundation Courses

8 courses - 25 credits

CS 0405	Programming Using Python
INFSCI 0010	Introduction to Information Systems and Society
INFSCI 1022	Database Management Systems
MATH 0280	Introduction to Matrices and Linear Algebra
MATH 0400	Finite Mathematics
STAT 1000	Applied Statistical Methods
STAT 1221	Applied Regression
STAT 1261	Principles of Data Science

Elective Courses

2 courses - 6 credits

Choose two of the following courses:

INFSCI 1128	Data Visualization
INFSCI 1068	Geospatial Information Systems
INFSCI 1160	Data Mining

Experiential Courses

3 courses—9 credits

STAT/INFSCI 1851	Practicum in Data Analytics
STAT/INFSCI 1901	Internship for Data Analytics
STAT/INFSCI 1951	Data Analytics Capstone

Liberal Arts Courses

Data analytics majors must take courses to satisfy the General Education requirements. Specifically, Data Analytics majors take:

MATH 0220 - Analytic Geometry and Calculus