

**Fully Online****TENNESSEE
STATE UNIVERSITY**

Master of Science in Data Science

FALL-2022

Open to All Disciplines

Agriculture

Business

Computer Science

Engineering

Health Sciences

Humanities

Life Sciences

Mathematics

Physical Sciences

Social Sciences

All majors are invited

Graduating Seniors

Alumni

All Working Professionals



What is Data Science?

Data science deals with development of computational foundation, methods, and tools to analyze large data sets in order to draw insights and to extract information. The growing data deluge from multiple sources require skilled data scientists to extract meaning and actionable intelligence from these data sets.

Who uses Data Science?

Healthcare, IT, Agriculture, Engineering, Banking and Finance, Manufacturing, Education, Medicine, Transportation, Communications, Media, Entertainment, Government, Energy and many more. It is Everywhere!

Data Science at TSU

Master of Science in Data Science brings computer science, applied mathematics, and statistics together to prepare its graduates for careers in data science. Students develop the right blend of theory and practice to draw insights and to extract information from big data.

Delivery Method

Master of Science in Data Science is fully online with optional on-campus immersion experiences. While all courses are delivered online, students are allowed to complete a single hybrid semester on campus.

Prerequisite

- One semester of computer programming in any programming language
- One semester of Statistics or Linear Algebra

Curriculum

- **4 Core Courses:** Programming for DS, Mathematics for DS, Data Visualization, Machine Learning
- **5 Elective Courses:** Statistical Learning, Data Mining, Algorithms for DS, Business Analytics, Natural Language Processing, Applied Deep Learning, Applied Statistics for DS, Hybrid and Relational Databases, Bioinformatics, Algorithms Design and Data Analysis, Computer Vision, and more
 - **1 Capstone Course**

Employment

- Graduates work on cutting-edge areas of data science.
- All major companies including IT, Business, Engineering, Healthcare, Medicine, Agriculture, Energy and government agencies/contractors are looking for qualified data scientists.

