

Online Data Science, M.S.

Expand Your Demand

Data can be messy, complex, and vast; but those who know how to navigate, organize, and interpret it are an invaluable resource to any company in today's business environment. With the Online Data Science, M.S. from New York Institute of Technology, you'll be more than prepared to conquer modern data challenges and move to the next level in your career.



100% online and asynchronous classes

Specialization opportunities to reach your goals

Engaging, experiential program to solve real-world challenges

Program Benefits

- Learn on your schedule with online classes you can complete anytime, anywhere
- Study under experienced, working data science experts who teach courses and concepts that are immediately relevant
- No tech experience or course prerequisites required to start the program
- Build on your undergraduate studies in computer science, data analytics, machine learning, data visualization, and more
- Work directly with faculty on research grants funded by the Department of Defense, National Science Foundation, and National Institutes of Health
- Choose to complete a thesis or final project, which can help you gain specialized skills and knowledge to better qualify you for science and analytics jobs

Program Structure

- 30 credits
- 100% online
- Complete in as few as 10 months*
- 3 opportunities to start per year

*Completion time may be as short as 10 months if previous education satisfies the prerequisites. Talk to an admissions outreach advisor to see if you are eligible.

Admission Requirements

- Completed [application form](#)
- \$50 nonrefundable application fee
- A bachelor's degree from an accredited institution, with a GPA of 2.85 or higher on a 4.0 scale
 - If you do not satisfy this criterion, you may be admitted at the dean's discretion. Additional criteria available on [our website](#)
- Transfer credits: Students may transfer up to six transfer credits from an accredited graduate program for appropriate courses in which a minimum grade of B was earned. Please review [the Graduate Credit Transfer policy](#).
- No tech experience or course prerequisites required for admission. Qualified students who do not have a sufficient background will be required to take two prerequisite courses in programming and statistics before starting the core curriculum. They must also take a linear algebra course within six months of starting the program. Reach out to your admissions outreach advisor for a transcript evaluation.
- [International student requirements](#): English proficiency and International Transcript Course Evaluation.

For additional information about application materials and the submission process at New York Institute of Technology, [visit us online](#).

Tuition & Fees

When you choose New York Tech for your post-graduate degree, you get a high-quality education that will propel your career forward with application-oriented courses. New York Tech is ranked in the top 10% among U.S. colleges for return on investment over 20, 30, and 40 years, making it one of the highest value schools in New York.¹

2023-2024 Academic Year	
Cost per credit	\$1,155
Application fee	\$50
Graduate Fee (per 7-week cycle)	\$125

The Curriculum

Every course in the Online Data Science, M.S. program will help you develop a deep understanding of statistics and optimization, business analytics, and information technology as you form an enduring foundation rooted in business acumen and data analysis.

Prerequisite Courses (3 credits each)**

DTSC 501: Programming
DTSC 502: Statistics

Fundamental Courses (3 credits each)

DTSC 610: Programming for Data Science
DTSC 615: Optimization Methods for Data Science
DTSC 620: Statistics for Data Science
DTSC 701: Introduction to Big Data
DTSC 710: Machine Learning
DTSC 870: MS Project I

Electives (3 credits each, select 4 of the following)

Advanced Data Science Electives

CSCI 657: Introduction to Data Mining
DTSC 740: Deep Learning
DTSC 630: Data Visualization
CSCI 760: Database Systems

Cybersecurity Specialization Electives

CSCI 654: Principles of Information Security
CSCI 662: Information System Security Engineering and Admin
INCS 615: Network Security and Perimeter Protection

Total Required Credits=30***

**Note: DTSC 501 and 502 and Linear Algebra are prerequisites for the core curriculum. Students may be able to satisfy these prerequisites with previous education, and they should inquire about their eligibility during the admission and onboarding process if they wish to do so. A linear algebra course must also be completed within the first six months of the program. Students may be able to satisfy this prerequisite with previous education. Reach out to your admissions outreach advisor for a transcript evaluation.

***Students may be able to complete the degree program in 30 credits if previous education satisfies the prerequisites. Talk to an admissions outreach advisor to see if you are eligible.

Businesses Are Drowning in Data. You're Their Rescue Plan.

From complicated, real-world data sets comes a series of challenges and opportunities.

In this future-focused degree program, you'll use a blend of observational, analytic, and communication skills to uncover data challenges and opportunities to improve business initiatives. Whether you want to help companies expand their capacity for big data, translate and demystify digitized business models, or uncover digital revenue opportunities, New York Tech will more than prepare you for your next steps. And by earning your degree online, you can accomplish it all without compromising your career or other priorities.

Get Started

To learn more about the Online Data Science, M.S. program, contact an admissions outreach advisor at 516-518-6948 or by email at onlineinfo@nyit.edu.

¹ <https://cew.georgetown.edu/cew-reports/collegeroi/>