

Online Computer Science, M.S.

In Theory. In Practice. In Demand.

In a discipline where languages, tools, and technologies are constantly changing, you need a degree that can prepare you for anything. The Online Computer Science, M.S. from New York Institute of Technology is consistent with the recommendations of the Association for Computing Machinery (ACM), so you'll graduate with the tactical skills and technical expertise to adapt to the latest developments in computer science.



100% online and
asynchronous classes



Specialized elective options
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
- Learn from experienced, working computer science experts who teach courses and concepts that are immediately relevant
- Build on your undergraduate studies in computer science, engineering, mathematics, or information technology and management
- Customize your degree to fit your career goals and interests in software engineering, computer security, networks, computer graphics, databases, information security, and artificial intelligence

Program Structure

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

Admissions Requirements

- Completed [application form](#)
- \$50 nonrefundable application fee
- B.S. degree or its equivalent from an accredited college or university in computer science, engineering, management, mathematics, information technology, liberal arts, and related areas
- Minimum undergraduate GPA of 2.85 for full matriculation
 - If you do not satisfy this criterion, you may be admitted at the dean's discretion. Additional criteria available on [our website](#)
 - For students with an insufficient background for admission into the M.S. in Computer Science program, applicants may need to demonstrate understanding in the following **Foundational Knowledge Areas**:
 - Computer Programming I and II
 - Computer Organization and Architecture
 - Elements of Discrete Structures
 - Data Structures
 - Operating Systems
 - Calculus I and II
 - Linear Algebra
- Transfer credits: You may transfer up to six 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 here: https://www.nyit.edu/admissions/graduate_credit_transfer
- Copies of undergraduate transcripts for all schools attended. All final, official transcripts must be received prior to the start of your first semester
- Copy of college diploma or proof of degree
- [International student requirements](#): English proficiency, International Transcript Course Evaluation, and GRE test scores

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 post-graduate education, 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, making it one of the highest value schools in New York.*

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

Curriculum

Every course in the Online Computer Science, M.S. program is carefully designed to meet the industry’s demand. Through a mixture of core courses, specializations, and electives, you’ll gain a comprehensive understanding of computer algorithms, computational theory, computer architecture, operating systems, compiler design, and software-based systems.

Core Courses (3 credits each)

- CSCI 651: Algorithm Concepts
- CSCI 621: Programming Languages (Co-requisite: CSCI 651)
- CSCI 641: Computer Architecture I
- CSCI 610: Theoretical Concepts
- CSCI 665: Software Engineering
- CSCI 620: Operating System Security
- CSCI 760: Database Systems

Electives (3 credits each, choose 3 courses from the following)

Data Science Specialization

- DTSC 610: Programming for Data Science
- DTSC 701: Introduction to Big Data (Prerequisite: DTSC 610)
- DTSC 630: Data Visualization

Info Security Specialization

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

Total Required Credits: 30

Computer Algorithms, Architecture, and AI—All at New York Tech

Take the next step in your career by adding in-demand skills to your resume. Through the Online Computer Science, M.S. program, you’ll gain advanced skills in computer algorithms, computational theory, computer architecture, operating systems, compiler design, and more. Then, you’ll be ready to move up, or move into, a career as an AI scientist, IT director, software engineer, cybersecurity expert, and more.

Energize your career with a master's degree in computer science. To learn more about the Online Computer Science, M.S. program, contact an Admissions Advisor at 516-518-6948 or by email at onlineinfo@nyit.edu.

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