MATHEMATICS
Mathematicians apply concepts and formulas to solve real-life situations. They explore connections between mathematics and its application at both the research and education levels, draw conclusions from data, and examine relationships between data and chance. Computers are often used as a tool for analyzing complex or massive data sets.

Actuarial Mathematics
Albany B

Applied Computer Applications
Finger Lakes C

Applied Mathematics
Buffalo State A
Farmingdale A
Fredonia A
Geneseo B
Oswego A
SUNY Poly B

Applied Mathematics and Statistics
Stony Brook A

Computer Science & Applied Mathematics
Albany B

Liberal Arts & Sciences: Mathematics
Cayuga A
Dutchess A
Geneseo B
Nassau A
Suffolk A

Mathematical Economics
Osweego B

Mathematics
Albany B
Binghamton B
Brockport A
Broome A
Buffalo State B
University at Buffalo B
Corland A
Erie (North) A
Finger Lakes A
Fredonia B
Geneseo A
Jefferson A
Monroe A, C
New Paltz B
Old Westbury B
Onondaga A
Oswego A
Plattsburgh A
Potsdam A
Stony Brook A

Mathematics / Computer Science
Purchase A

Mathematics: Economics
University at Buffalo A

Statistics
University at Buffalo B
Onondaga A

COMPUTER PROGRAMMING
Though closely related, computer software engineering and computer programming have unique responsibilities. Computer programmers work with programming languages like C++, Java or Visual Basic to convert software design into a format that can be processed by computers. They may also repair, update, and test existing programs.

Computer Applications Programming
Mohawk Valley A

Computer Aided Design & Computer Numerical Control
Jamestown: Olean C

Computer Aided Design - Technology
Morrisville A

Computer Numerical Control Programming
Corning A

Computer Programming
Sullivan A
Westchester C

Computer Programming & Information Systems
Farmingdale A

Game Programming and Design
Finger Lakes A

Game & Interactive Design
Alfred State A, B

Game Design and Development
Canton B

Programming for Game Design
Schenectady A

INFORMATION TECHNOLOGY MANAGEMENT
Information technology management consists of emerging programs—such as web design/development, cyber security, forensics, and network management—that reflect the technological society in which we live.

Animation, Interactive Media & Game Design
Fashion Institute of Technology B

Casino Gaming Machine Repair Technician
Erie A

Commercial Art: Digital Technologies
Nassau A

Computer Applications Specialist
Westchester B

Computer Desktop Support Specialist
Schenectady County C

Computer Electronics Technology
Clinton A

Computer Forensics
Onondaga A

Computer Graphics & Design
Columbia-Greene C
North Country A, C

Computer Graphics/Graphic Design
Sullivan A

INFO TECH MGMT (cont.)

Computer Hardware/Software Design
Cayuga A, C

Computer Repair
Geneseo C

Computer Repair Technology
Erie A
Nassau A

Computer Science: Cybersecurity
Mohawk Valley A

Computer Security
Plattsburgh A

Computer Security and Forensics
Broome A

Computer Support
Clinton A
Rockland A
Sullivan A

Computer Support & Operations
Geneseo A

Computer Support Specialist
Tompkins Cortland A

Computer Technology
Broome C
Clinton A

Computer Web Development
Rockland C

Digital Forensics
Albany A

Graphic Design: Computer Graphics
Sullivan County A

Help Desk Support
Geneseo C

Home Network Management
Sullivan D

Information Systems Security
Erie (North) C

Office Technology: Information Processing
Morrisville A

Web Administration: Webmaster
Dutchess C

Web and Mobile Applications Development
Fulton-Montgomery A

Web and Mobile Development
Erie A

Web Design
Geneseo A, C

Web Design: Cybersecurity
Jamestown C

Web Development
Westchester B

Web Development & Information Design
Mohawk Valley A

Web Page Design
Erie (South) C

Web Technology
Onondaga B

Website Design
Nassau A

Website Development and Management
Broome A, C

Key:  B = Bachelor’s Degree  A = Associate Degree  C = Certificate
### INFORMATION SCIENCES AND SYSTEMS

Information sciences and systems experts design and develop new systems, resolve issues in existing systems, and create and maintain software and hardware solutions that connect communication systems to computer networks. They also keep computer systems current, efficient and secure and communicate with users about technological needs. Professionals may also create games, educational software and business applications—to help clients get the most out of current technology—or repair systems. Those who choose to work in this field may focus on a specific type of computer system, such as engineering, accounting, business or government.

**Applied Computing**

- SUNY Poly
- Cisco Certified Entry Networking Technician

**Computer & Information Networking**

- Old Westbury
- SUNY Poly

**Computer Information Science**

- Corning
- Alfred State
- Brockport
- Broome
- Buffalo State
- Canton
- Cayuga
- Clinton
- Cobleskill
- Columbia-Greene
- Corning
- Delhi
- Dutchess
- Farmingdale
- Finger Lakes
- Fredonia
- Fulton-Montgomery
- Geneseo
- Hudson Valley
- Jamestown
- Jefferson
- Mohawk Valley
- Monroe
- Nassau
- Niagara
- New Paltz
- Onondaga
- Orange
- Oswego
- Plattsburgh
- Potsdam
- Schenectady
- Stony Brook
- Suffolk
- SUNY Poly
- Tompkins Cortland
- Ulster County
- Westchester

**Computer Science & Applied Mathematics**

- Albany
- Binghamton
- Brockport
- Broome
- University at Buffalo
- Cayuga
- Columbia-Greene
- Corning
- Delhi
- Dutchess
- Erie (North)
- Finger Lakes
- Fredonia
- Fulton-Montgomery
- Herkimer
- Jamestown
- Jefferson
- Mohawk Valley
- Monroe
- Nassau
- Niagara
- New Paltz
- Oneonta
- Onondaga
- Orange
- Oswego
- Plattsburgh
- Potsdam
- Schenectady
- Stony Brook
- Suffolk
- SUNY Poly
- Tompkins Cortland
- Ulster County
- Westchester

**Computer Systems & Network Technologies**

- Geneseo
- Computer Systems Technology
- Farmingdale
- Monroe
- Cyber Security
- Alfred State
- Orange
- Rockland
- Cyber Security/Digital Forensics
- Columbia-Greene
- Cybersecurity
- Canton
- Corning
- Hudson Valley
- Mohawk Valley
- Nassau
- Westchester
- Game & Interactive Design
- Alfred State
- Informatics

**Information Technology Management**

- Adirondack
- Canton
- Cayuga
- Cobleskill
- Corning
- Erie (South)
- Jamestown
- Monroe
- Nassau
- Plattsburgh
- Suffolk

**Information Technology**

- Adirondack
- Applications Software Development
- Alfred State
- Morrisville
- Information Technology: Computer Networking
- Adirondack
- Information Technology: Cybersecurity
- Adirondack
- Information Technology: End User Support
- Morrisville
- Information Technology: Information Security
- Adirondack
- Information Technology Management
- Delhi
- Morrisville
- Information Technology: Network Administration
- Alfred State
- Morrisville
- Information Technology: Web Development
- Alfred State
- Morrisville
- Management Information Systems
- Old Westbury
- Plattsburgh
- Network Administration
- Jamestown
- Network Administrator
- Ulster
- Network and Computer Security
- SUNY Poly
- Networking
- Westchester
- Networking & Cybersecurity
- Finger Lakes
- Operations Management & Information Systems
- Oswego
- Robotics
- Plattsburgh
- Technological Systems Management
- Stony Brook

**Network Administration**

- SUNY Poly
- Networking
- Westchester
- Networking & Cybersecurity
- Finger Lakes
- Operations Management & Information Systems
- Oswego
- Robotics
- Plattsburgh
- Technological Systems Management
- Stony Brook

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**Key:**

- B = Bachelor’s Degree
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For more information about these academic programs, contact SUNY campuses on the web at [www.suny.edu/contactcampuses](http://www.suny.edu/contactcampuses)