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.

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.

Oneonta B

Mathematical Economics
University at Buffalo B

Mathematics
Albany B
Binghamton B
Brooklyn Poly B
Buffalo State B
Cortland B
Fredonia B
Geneseo A
Oswego B
SUNY Poly B

Applied Mathematics and Statistics
Stony Brook B

Statistics
University at Buffalo B

Actuarial Mathematics
Albany B

Applied Computer Applications
Finger Lakes C

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

Computer Science & Applied Mathematics
Stony Brook B

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

Mathematics
Albany B
Binghamton B
Brooklyn Poly B
Buffalo State B
University at Buffalo B

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

Applied Mathematics and Statistics
Stony Brook B

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

Mathematics
Albany B
Binghamton B
Brooklyn Poly B
Buffalo State B
University at Buffalo B

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

Applied Mathematics and Statistics
Stony Brook B

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

Mathematics
Albany B
Binghamton B
Brooklyn Poly B
Buffalo State B
University at Buffalo B

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

Applied Mathematics and Statistics
Stony Brook B

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

Mathematics
Albany B
Binghamton B
Brooklyn Poly B
Buffalo State B
University at Buffalo B

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

Mathematics / Computer Science
Purchase B

Statistics
University at Buffalo B

Oneonta B
Inform not 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.

Information sciences and system s 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

Computer & Information Science
Old Westbury
SUNY Poly

Computer Information Science
Corning

Computer Information Systems
Alfred State
Brooklyn
Brockport
Broome
Buffalo State
Canton
Cayuga
Clinton
Cobleskill
Columbia-Greene
Corning
Dutchess
Erie
Finger Lakes
Fredonia
Fulton-Montgomery
Herkimer County
Hudson Valley
Jamestown
Jefferson
Mohawk Valley
Monroe
Nassau
Niagara County
New Paltz
Oneonta
Onondaga
Orange County
Oswego
Plattsburgh
Potsdam
Schenectady County
Stony Brook
Sullivan County
SUNY Poly
SUNY College of Agriculture & Life Sciences
Tompkins Cortland
Ulster County

Computer Systems & Network Technologies
Geneseo

Computer Systems Technology
Farmingdale

Cybersecurity
Corning

Cyber Security
Alfred State

Informatics
Albany

Information and Network Technology
Monroe

Information Management
Dutchess

Information Processing
Hudson Valley

INFORMATION SCIENCES AND SYSTEMS (cont.)

Information Science
Schenectady County

Information Technology
Miller Lakes

Information Technology: Cybersecurity
Schenectady County

Information Technology: Electronic Marketing & Publishing
Schenectady County

Information Technology: Information Security
Alfred State

Information Technology Management
Alfred State

Information Technology: Networking
Schenectady County

Information Technology: Network Administration
Alfred State

Information Technology: Operations Management & Information Systems
Schenectady County

Key:  B = Bachelor’s Degree  A = Associate Degree  C = Certificate

For more information about these academic programs, contact SUNY campuses on the web at www.suny.edu/contactcampuses