SUNY

Analyze Your Success

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 [B]
Farmingdale [B]
Fredonia [B]
Oswego [B]
SUNYIT [B]

Applied Mathematics and Statistics
Stony Brook [B]

Computer Science & Applied Mathematics
Albany [B]

Liberal Arts & Sciences: Mathematics
Cayuga [A]
Dutchess [A]
Nassau [A]
Suffolk [A]

Mathematical Economics
University at Buffalo [B]
Oswego [B]

Mathematics
Albany [B]
Binghamton [B]
Brockport [B]
Buffalo State [B]
University at Buffalo [B]
Cortland [B]
Fredonia [B]
Geneseo [B]
Monroe [A, C]
New Paltz [B]
Old Westbury [B]
Oneonta [B]
Oswego [B]
Plattsburgh [B]
Potsdam [B]
Stony Brook [B]

Mathematics / Computer Science
Purchase [B]

Statistics
Oneonta [B]

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.

C++Java Advanced Programming
Dutchess [C]

Computer Information Systems: Web Design & WWW Programming
Hudson Valley [A]

Computer Numerical Control Programming
Corning [C]

Computer Programming
Westchester [C]

Computer Programming & Information Systems
Farmingdale [B]

Data Processing, Programming & Systems
Mohawk Valley [A]

Game Programming and Design
Finger Lakes [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. Specialists in these evolving careers apply their computer knowledge to a variety of fields and often use a team-approach to fix, develop and maintain computer systems.

Commercial Art: Digital Technologies
Nassau [A]

Computer Applications for the Office
Erie [C]
Sullivan [C]

Computer Applications Specialist
Westchester [C]

Computer Desktop Support Specialist
Schenectady [C]

Computer Forensics
Onondaga [A]
Tompkins Cortland [A]

Computer Gaming Machine Repair Technician
Erie [C]

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

Computer Graphics/Graphic Design
Sullivan [A]

Computer Hardware/Software Design
Cayuga [A, C]

Computer Repair
Genesee [C]

Computer Repair Technology
Erie [A]
Nassau [A]

Computer Science: Cybersecurity
Mohawk Valley [A]

INFORMATION TECHNOLOGY MANAGEMENT (cont.)

Cyber Security
Mohawk Valley [C]
Orange [A]
Rockland [A]
Sullivan [A]

Computer Security and Forensics
Broome [A]
Columbia-Greene [A]

Computer Security & Investigation / Digital Forensics
Erie [C]

Computer Software Application Specialist
Hudson Valley [C]

Computer Software Support
Dutchess [C]

Computer Support
Clinton [C]
Rockland [A]

Computer Support & Operations
Genesee [A]

Computer Support Specialist
Herkimer [A]
Tompkins Cortland [A]

Computer Technology
Broome [A]
Clinton [A]
Fulton-Montgomery [A]
Suffolk [C]

Computer Web Development
Rockland [C]

Database Management
Ulster [C]

Graphic Design: Computer Graphics
Sullivan [A]
Tompkins Cortland [A]

Help Desk Support
Genesee [C]

Information Processing
Hudson Valley [C]

Information Systems Security
Erie [C]

Office Technology: Information Processing
Morrisville [A]

PC Support Services
Rockland [A]

Software Technology
Farmingdale [B]

Web Administration: Webmaster
Dutchess [C]

Web Design
Genesee [A, C]
Jamestown [C]
Tompkins Cortland [A]

Web Development & Information Design
Mohawk Valley [A]

Web-Network Technology
Erie [C]

Web Page Design
Erie [C]

Web Technology
Onondaga [C]

Website & E-Business Development
Herkimer [A]

Website Design
Nassau [C]

Website Development and Management
Broome [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
SUNYIT [B]

Computer & Information Science
SUNYIT [B]

Computer Information Science
Corning [A]

Computer Information Systems
Alfred State [A]
Brockport [B]
Broome [A]
Buffalo State [B]
Canton [A]
Cayuga [A, C]
Clinton [A]
Cobleskill [A]
Columbia-Greene [A, C]
Corning [A]
Delhi [A]
Dutchess [A]
Erie [A]
Farmingdale [C]
Fredonia [B]
Fulton-Montgomery [A]
Genesee [A, C]
Hudson Valley [A]
Jamestown [A]
Jefferson [A]
Monroe [A]
Morrisville [A]
Niagara [A]
Onondaga [A]
Rockland [A]
Schenectady [A]
Suffolk [A]
Sullivan [A]
SUNYIT [B]
Tompkins Cortland [A]
Westchester [A]

Computer Information Systems: Microcomputers
Mohawk Valley [A]
Nassau [C]

Computer Information Systems: System & Network Administration
Hudson Valley [A]

Computer Information Technology
Jefferson [A]

Computer Information Technology: Networking
Orange [A]

INFORMATION SCIENCES AND SYSTEMS (cont.)

Computer Networking
Dutchess [C]
Fulton-Montgomery [A]

Computer Networking Systems & Cyber Security
Schenectady [C]

Computer Network Technician
Herkimer [A]

Computer Repair and Networking
Schenectady [C]

Computer Science
Adirondack [A]
Albany [B]
Alfred State [A]
Binghamton [B]
Brockport [B]
Broome [A]
University at Buffalo [B]
Canton [A]
Cayuga [A]
Columbia-Greene [A]
Corning [A]
Delhi [A]
Dutchess [A]
Erie [A]
Finger Lakes [A]
Fredonia [B]
Fulton-Montgomery [A]
Herkimer [A]
Hudson Valley [A]
Jamestown [A]
Jefferson [A]
Mohawk Valley [A]
Monroe [A]
Morrisville [A]
Nassau [A]
Niagara [A]
New Paltz [B]
Old Westbury [B]
Oneonta [B]
Onondaga [A]
Orange [A]
Oswego [B]
Plattsburgh [B]
Potsdam [B]
Schenectady [A]
Stony Brook [B]
Sullivan [A]
SUNYIT [B]
Tompkins Cortland [A]
Ulster [A]

Computer Systems & Network Technologies
Genesee [A]

Computer Systems Specialist
Fulton-Montgomery [C]

Computer Systems Technology
Farmingdale [C]
Monroe [A]
Morrisville [A]

Information Mangagement
Dutchess [A]

Information Processing
Hudson Valley [C]
Suffolk [C]

Information Science
Albany [B]
Oswego [B]
NYS College of Agriculture & Life Sciences [B]

INFORMATION SCIENCES AND SYSTEMS (cont.)

Information Security and Assurance
Alfred State [B]

Information Systems
Finger Lakes [A]
Stony Brook [B]
Sullivan [C]

Information Systems Security
Erie [C]

Information Technology
Adirondack [A, C]
Canton [B]
Cayuga [A]
Cobleskill [B]
Corning [A]
Erie [A]
Finger Lakes [A]
Jamestown [A, C]
Monroe [A]
Nassau [A]
Plattsburgh [B]
Suffolk [A, C]

Information Technology: Applications Software Development
Alfred State [B]
Morrisville State [B]

Information Technology: Computer Networking
Adirondack [A]

Information Technology: Electronic Marketing & Publishing
Morrisville [B]

Information Technology: End User Support
Morrisville [B]

Information Technology Management
Morrisville [B]

Information Technology: Network Administration
Alfred State [B]
Morrisville [B]

Information Technology: Web Development
Alfred State [B]
Morrisville [B]

Local Area Networks
Niagara [C]

Management Information Systems
Old Westbury [B]
Plattsburgh [B]

Network Administration
Jamestown [C]

Network Administrator
Ulster [A, C]

Network and Computer Security
SUNYIT [B]

Networking
Westchester [A]

Operations Management & Information Systems
Oswego [B]

Technological Systems Management
Stony Brook [B]

Technology Management: Information Technology
Delhi [B]

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