SUNY BROOME

Computer Technology
Career/AAS

SUNY Broome Community College · P.O. Box 1017 · Binghamton, N.Y. 13902 · (607) 778-5000 · (607) 778-5150 TTY/TDD · www.sunybroome.edu
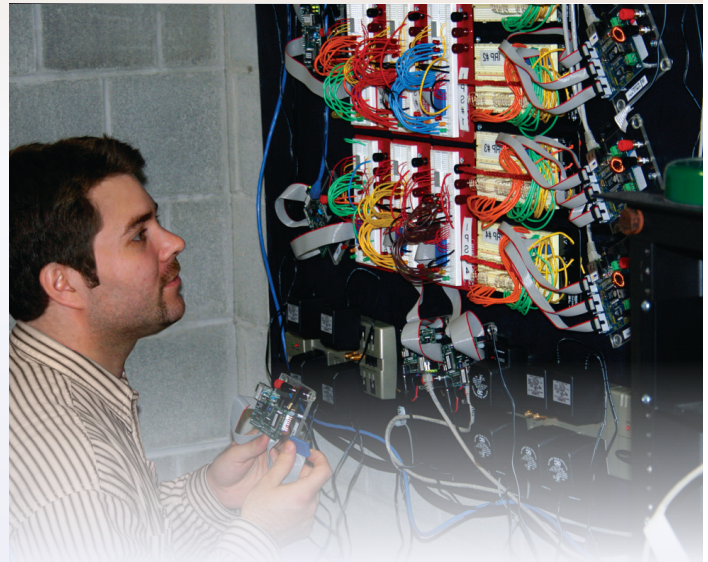
CONTACT

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The Technical, Network, or Network Security and Computer Forensics tracks prepare you for immediate employment in technical environments where knowledge of the interface between hardware and software is necessary. Upon graduation, you could be employed as a computer operator, technician/programmer, or engineering aide, and work on protecting network data flow and integrity or on large software projects. Or, you might work directly with digital devices such as microprocessors and computer interfaces for sensors and controllers. Less emphasis is placed on mathematics, and more on computer hardware, digital logic, and microprocessors.

It is recommended that all students taking on-line Angel or SLN courses should have high-speed Internet connections. The software used by on-line students may come bundled with the course textbook, and/or be available on-line. Some on-line courses will require a student to purchase the software necessary to complete the course.

COMPUTER RECOMMENDATION

A student seeking a career in the computer programming profession should have a home computer with an Internet connection. Students will have to use computers to write programs, analyze problems, make presentations, and write reports. Many assignments cannot be completed without computers. While the College provides access to computers, it is not possible to provide enough machines or convenient times for everyone. Students are strongly urged to have a Microsoft Windows-capable systems purchased within the last year. The CST Department currently uses Microsoft Visual C++. NET as its main development environment.

COMPUTER TECHNOLOGY STUDIES:

- Computers in Technology
- C++/C++.NET
- Electrical Circuits
- Microprocessors and Assembly Language
- Digital Logic
- Systems Analysis
- Computer Maintenance
- Intro to Networking
- Electronic Devices
- English, Social Science, Mathematics

APPLY ONLINE AT

www.sunybroome.edu/apply

FOR FINANCIAL AID AND SCHOLARSHIP OPPORTUNITIES, CONTACT:

Email:
finaid@sunybroome.edu

Phone: 607-778-5028

Fax: 607-778-5451

Office:
Student Services 111

Regular Hours:
Mon - Fri, 8 am - 5 pm

Summer Hours:
Mon - Fri, 8 am - 4 pm

TECHNICAL CAREER PATH

First Year

Fall Semester 19 Credits
- CST Elective
- CST 113 - Introduction to Programming
- CST 117 - Problem Solving and Communication Tools
- CST 119 - Computer Concepts and Applications
- ENG 110 - College Writing I
- MAT 130 - Applied Algebra and Trigonometry

Spring Semester 16 Credits
- CST Elective
- CST 140 - Computer Maintenance
- CST 170 - Digital Logic
- CST 220 - Microprocessors and Assembly Language Programming
- CST 208 W - Introduction to Computer Networking

Second Year

Fall Semester 16 Credits
- Civ Ed Elective
- Two CST electives (one 200 level)
- Natural Sciences Sequence
- MAT 160 - Applied Calculus I

Spring Semester 13 Credits
- Gen Ed Elective
- Natural Sciences Sequence
- CST 225 W - Introduction to Small Systems
- ENG 150 - Technical Writing

CREDITS REQUIRED TO GRADUATE: 64

NETWORK CAREER PATH

First Year

Fall Semester 19 Credits
- CST Elective
- CST 113 - Introduction to Programming
- CST 117 - Problem Solving and Communication Tools
- CST 119 - Computer Concepts and Applications
- ENG 110 - College Writing I
- MAT 130 - Applied Algebra and Trigonometry

Spring Semester 15 Credits
- CST Elective
- CST 140 - Computer Maintenance
- CST 170 - Digital Logic
- CST 208 W - Introduction to Computer Networking
- CST 220 - Microprocessors and Assembly Language Programming

Second Year

Fall Semester 16 Credits
- CST Elective (200 level)
- Natural Sciences Elective
- CST 209 - Advanced Computer Networking
- CST 213 - Database Systems
- CST 216 - Visual Basic.NET

Spring Semester 12 Credits
- Civ Ed Elective
- Gen Ed Elective
- CST 224 W - Introduction to Network Programming
- ENG 150 - Technical Writing

CREDITS REQUIRED TO GRADUATE: 62

ACADEMIC PREPARATION FOR THIS PROGRAM
If you do not have the necessary academic preparation for your chosen program, you may take preparatory courses at SUNY Broome to strengthen your academic background. Advisors are available to assist you in selecting appropriate preparatory coursework.

For more information, go to
www.sunybroome.edu/stem