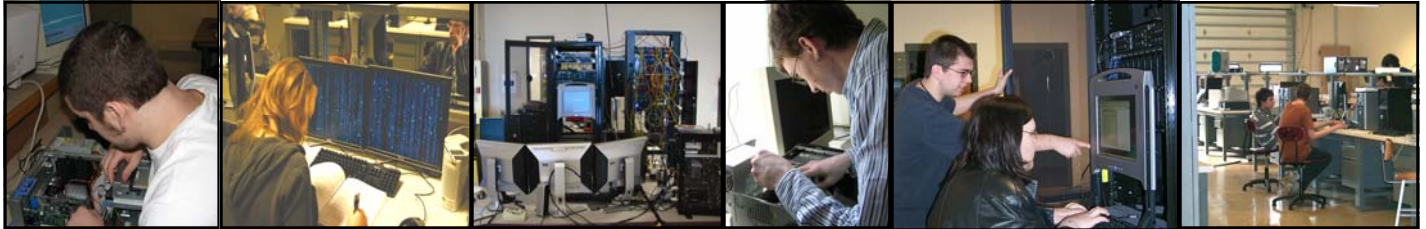


The **Computer Systems & Network Administration** Program is a two-year program. The first year begins with basic PC repair and troubleshooting. The student will learn the basics of computer technology. The student will learn proper computer help desk and technician skills. In the second year, the student will build upon previous experience and gain a solid foundation in network and systems administration, complete with training in the latest technologies used by businesses today.



Program Content...

FIRST YEAR

Introduction to Computer Repair

- Safety
- Introduction to Computers
- The Monitor
- The Power Supply
- USB Hosts
- Hard Disk Drive
- Motherboard
- CPU/BIOS/BUS
- RAM
- Video Cards, SLI & PCIe
- Network Systems Computer Viruses

Identifying Hardware Components

- The Power Supply
- Motherboard Architecture
- BUS Slots and I/O Cards
- System Resources
- Input Output Devices
- Multimedia Devices

Software Configuration

- Assembling the Computer
- Configuring the Assembled Computer
- Installing an Operating System and BIOS/CMOS Setup
- Operating System Modification
- Overclocking Applications

SECOND YEAR

Network+

- Safety
- Fiber Optics
- Copper Core Wiring
- Network Administration
- System Administration
- Network Protocols
- Configuring Routers
- Configuring Switches
- Remote Storage
- Server Administration
- Domain Management

Network Security

- Wireless Technology
- Firewalls
- Encryption
- LANS & Networked Games

Internship Experiences...

Students can participate in an internship experience where they will apply their knowledge while working with professionals in authentic career settings. Students will have an opportunity to dialog with practitioners via guest presentations while developing professional insights and future educational plans.

Portfolio...

All second year students will complete a Career and Technical Education Portfolio that exhibits necessary elements for CTE Endorsement and demonstrates competencies in Computer Service & Network Administration

Industry Site Visits...

Students will have the opportunity to interact with professionals in the field by making industry site visits. This experience provides students with the opportunity to network with area professionals.

Benefits...

Articulation Agreements/College Credit

- Cayuga Community College (SUNY Transcript)
- Intro to Geographical Information Systems
- Microcomputer Maintenance
- Intro to Local Area Networks
- Herkimer Community College
- Pennsylvania College of Technology

Completed Career Portfolio

Integrated Math Credit

Internship Experience

Globally recognized Certifications Available:

- CompTIA:
- Network+ Certification
- A+ Certification

Computer Systems & Network Administration could lead to careers in...

- Field Hardware/Software Technician
- Computer Technician
- Desktop Support Specialist
- Systems Admin-Support Technician
- Help Desk Specialist
- Technical Trainer
- Field Service Engineer
- Network Administrator
- Field Service Representative
- Technology Specialist
- Network Support Technician
- Electronics Sales
- Computer Sales
- Game Developer
- Game Designer

For more information, contact ...

Your High School Guidance Office or The Guidance Office at the BOCES

Cayuga-Onondaga BOCES
1879 W. Genesee Street Road
Auburn, NY 13021
315.253.0361
www.caybooces.org

No student shall on the basis of gender, race, color, national origin, disability or age, be excluded from participation in, be denied the benefits of or otherwise be subjected to unlawful discrimination under any career and technical program or activity.