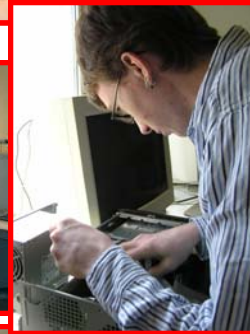
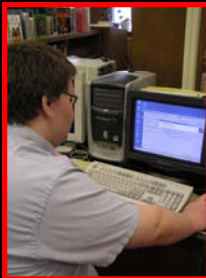


## Computer Systems & Network Administration

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



**How do I enroll?**  
See your High School Guidance Office  
Or  
Guidance Office  
Cayuga-Onondaga BOCES  
315.253.0361

Cayuga-Onondaga BOCES

## Computer Systems & Network Administration



**Mr. Matt Champlin**  
Instructor

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Auburn, NY 13021  
315.253.0361  
[www.caybores.org](http://www.caybores.org)

# Program Content

This 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 Outline

### 1st Year Curriculum

#### *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

### 2nd Year Curriculum

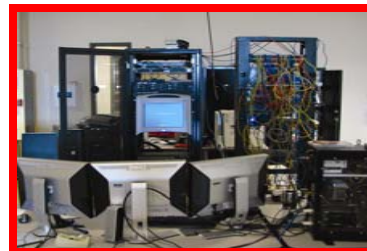
#### *Network+*

- 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



### Articulation Agreements:

- Cayuga Community College (SUNY transcript)
- Herkimer Community College
- Pennsylvania College of Technology

### College Credit from Cayuga Community College:

- Intro to Geographical Information Systems
- Microcomputer Maintenance
- Intro to Local Area Networks

### Internship Experiences:

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

### 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.

### 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 Systems & Network Administration.

### Globally Recognized Certifications Available:

#### CompTIA:

- Network+ Certification
- A+ Certification