



# CYBER TECHNICIAN

## Cyber Technician Certification

Provide help and advice to computer users and organizations

Curriculum prepares you for COMPTIA+, Security+, and Network+ certifications. The cyber technician program will help students learn a variety of skills used in the industry, including the following:

- Maintain, repair, and build PCs
- Analyze and secure systems, network, and data
- Troubleshoot and resolve computer problems
- Work with Windows, Linux, switches, routers, cabling, network addressing, firewalls, remote access, and virtualization
- Document network-related activities or tasks

### Suggested educational levels:

- English literacy (reading, writing, speaking, and listening)

### Class Hours:

- Morning: 7:50am - 10:40am Mon.- Fri.
- Afternoon: 12:05pm - 2:55pm Mon.- Fri.
- Program is 2 semesters in length, with start dates in Fall.

## Tuition and Credit Hour Calculation

### Semester 1

|                              |
|------------------------------|
| \$2,210.00 (Tuition)         |
| + \$220.00 (Credit Hour Fee) |
| <b>\$2,430.00</b>            |

### Semester 2

|                              |
|------------------------------|
| \$1,820.00 (Tuition)         |
| + \$190.00 (Credit Hour Fee) |
| <b>\$2,010.00</b>            |

*Based on Colorado Resident In-State Tuition*

## Estimated Program Costs (to be paid at Picken's payment office)

### Tuition and Credit Hour Fees:

Semester 1: \$2,430.00

Semester 2: \$2,010.00

### Required On Campus Costs:

Program Charges: \$500.00 (each semester)

Student ID: \$10.00 (each year)

CTSO Charge: \$20.00 (each year)

### Estimated Total:

**Cyber Technician Certificate: \$5,470.00 (+tax)**

## Additional Relevant Costs (estimated)

### Optional Costs:

CompTIA A+ Certification Test: \$200.00

CompTIA Security+ Certification Test: \$215.00

CompTIA Network+ Certification Test: \$154.00

**Credits:**  
**31**

**Length:**  
**1 year**

**Cost:**  
**\$5,470**



Cost and information revised **January 2022**  
500 Airport Blvd., Aurora, CO 80011 • [www.pickenstech.org](http://www.pickenstech.org) • (303)344-4910



# CYBER TECHNICIAN

## Courses required for this certificate:

### CNG 1001 Networking Fundamentals

Introduces network fundamentals using the OSI (Open Systems Interconnection) model and TCP/IP (Transmission Control Protocol/ Internet Protocol) suite, fundamentals of Ethernet, IP addressing, and building simple LANs (Local Area Networks).

### CIS 1015 Intro to Computer Information Systems

Focuses on an overview of the needs for and roles of computer information systems. Emphasizes computer requirements in organizations, history, hardware functions, programming, systems development, and computer operations. Introduces computer applications.

### CNG 1021 Computer Technician I: A+

Provides students with an in-depth look at personal computer hardware, introduces O.S. features and security concepts, and covers interpersonal skills, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with computer systems, PC setup and configuration, and basic maintenance and troubleshooting. This course helps prepare you for the CompTIA A+ Essentials Exam.

### CNG 1022 Computer Technician II: A+

Focuses on operating systems as well as installation of modems, tape backups, CD-ROM drives, and SCSI subsystems. Covers operating systems, Windows 9x, Windows NT and Windows 2000 installation, configuration and upgrading. Includes laser printers and backup power systems. This course prepares the student for the CompTIA A+ OS Technologies Exam.

### CNG 1024 Networking I: Network +

Provides students with the knowledge necessary to understand, identify and perform necessary tasks involved in supporting a network. Covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network + course.

### CNG 1025 Networking II: Network +

Continues to provide students with the knowledge necessary to implement and support a network. Focuses on the vendor independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network + certification.

### CIS 1028 Operating Systems: Using Windows

Introduces the functions and capabilities of an operating system, including configuring and modifying the operating system environment.

### CNG 1031 Principles of Information Assurance

Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and perational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

### CNG 1032 Network Security Fundamentals

Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

### CNG 2085 Independent Study

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## CYBER TECHNICIAN CERTIFICATE

**Certificate Total:** Clock Hours: 615 Credit Hours: 31

**Certificate Length:** 2 semesters