

# CYBER TECHNICIAN

Provide help and advice to computer users and organizations. Students prepare for COMPTIA Security+ and COMPTIA Network+ certifications.

**Analyze & Secure systems, networks, and datasets | Windows & Linux |  
Maintain, repair, and build PC's | Troubleshoot computer problems**

## Suggested Abilities

▶ 8th grade English reading, writing, speaking, and listening

## Prerequisites

▶ *High School Students: Meet with counselor for eligibility requirements*

## Class Hours

▶ Morning: 8:40am - 11:30am, Mon. - Fri.  
▶ Afternoon: 12:10pm - 3:00pm, Mon. - Fri.

## SEMESTER 1

### CNG 1001 Networking Fundamentals

**3 credits**

Covers network fundamentals: the OSI model, TCP/IP suite, Ethernet basics, IP addressing, and constructing simple LANs.

### CIS 1015 Intro to Computer Information Systems

**3 credits**

Overview of computer information systems: organizational needs and roles, computer requirements, history, hardware, programming, systems development, operations, and introductory applications

### CNG 1021 Computer Technician I: A+

**4 credits**

PC hardware, operating system features, security, interpersonal skills, hands-on setup, maintenance, and troubleshooting to prepare students for the CompTIA A+ Essentials exam.

### CNG 1022 Computer Technician II: A+

**4 credits**

Covers operating system installation, configuration, and upgrades; hardware topics like modems, tape/CD-ROM/SCSI, laser printers, and backup power; and prepares for CompTIA A+ exam.

### CIS 1028 Operating System: Using Windows

**3 credits**

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

## SEMESTER 2

### **CNG 1024 Networking I: Network +**

#### **3 credits**

Networking fundamentals: installing and configuring and supporting networks. Prepares students for the follow-up course Networking II: Network+.

### **CNG 1025 Networking II: Network +**

#### **3 credits**

Vendor independent networking skills and concepts that affect all aspects of networking, preparing students for Network+ Certification.

### **CNG 1031 Principles of Information Assurance**

#### **3 credits**

Communication security, common attacks, cryptography basics, operational/physical security, disaster recovery, business continuity, and forensics.

### **CNG 1032 Network Security Fundamentals**

#### **3 credits**

Communication security, common attacks, cryptography basics, operational/physical security, disaster recovery, business continuity, and forensics.

### **CNG 2085 Independent Study**

#### **2 credits**

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

## **Cyber Technician Certificate**

1 year

31 Credit Hours



**Information Revised MAY'26.** Information subject to change. Course listings have been paraphrased on this flyer, for full course info please see Pickens Catalog. This certificate is eligible for Financial Aid. If you have further questions, please call (303)344-4910.