

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: 7:50am - 10:40am, Mon. - Fri.
► Afternoon: 12:05pm - 2:55pm, 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.

MAC 2075 Special Topics: Machine Shop Math

3 credits

Introductory mathematical topics such as measurement, algebra, geometry, trigonometry, graphs, and finance. Emphasis is placed on practical applications of these concepts.

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 DEC '25. 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.