

COLLEGE TECH PREP

A+ Certification and Networking  STEM

This two-year College Tech Prep program prepares students to earn A+ Certification and Network+ Certification. Learn the basics of personal computer hardware and operating systems. A+ Certification is one of the leading IT certifications. The curriculum includes instruction in installation and use of application software, as well as designing, installing and troubleshooting a local area network (LAN). In this College Tech Prep Career Pathway, A+ Certification and Networking links directly to the Computer Maintenance and Networking Option associate's degree at The University of Akron. A Credit Banking option is available at The University of Akron. *Separate application process. See your counselor.*

GRADE LEVEL: 10,11,12
LENGTH: Two years
SCHOOL: Cuyahoga Falls

CREDIT:
Level I - Lab 2
Level II - Lab 2

Higher education opportunities

- 8 college credits available at The University of Akron. See page 30.
- Associate's degree
- Bachelor's degree

Skills necessary for success

- Ability to carry out detailed tasks and follow multi-part directions
- Organizational skills
- Ability to visualize completed projects
- Reading comprehension skills
- Ability to break down a problem and systematically check each part until a solution is found

Areas of concentration

- Networking and CPU's, DOS and Windows (98, 2000, NT, XP and ME) operating systems
- Motherboards, hard drives, RAM, videos
- Network analysis, design, installation and maintenance needed to manage a basic network for a small to medium-sized business
- Network building, maintenance and troubleshooting
- Local Area Network/Wide Area Network design

Professional Pathway

- PC Technician
- Network Administrator
- LAN Technician
- Database Software Technician

Prerequisites

Required

- Algebra I
- Geometry
- Keyboarding skills
- One college prep credit in science and English

Recommended

- Average G.P.A. of 2.5 for Algebra I, Geometry, English and science for three previous semesters
- Average 95% attendance for three semesters
- Suggest taking Calculus, Chemistry, Physics and/or Trigonometry as a junior or senior

Program Requirements

- Excellent attendance record
- Minimum 2.5 GPA

Industry Credentials

- CompTIA A+ Certification
- CompTIA Network+ Certification
- Cisco Networking Certification
- Microsoft Networking Certification