

COLLEGE TECH PREP

IT Academy with CompTIA and CISCO 

You're texting and tweeting. You're downloading an MP3 or checking Facebook. You are on digital networks. By 2015, there will be 15 billion global network connections—twice as many as there are people on earth. Learning about networks will give you lots of career options. With the right network skills, you can enter an exciting and well-paying career in ICT (information and communications technology). Or you can bring those vital skills to an internship or job in some other industry. You might catch the entrepreneurial spirit and start your own network-based company. Computer and networking courses from Cisco Networking Academy can help make it happen. As part of the IT Academy, you'll gain the needed knowledge of basic computer hardware and operating systems, preparing you to take the CompTIA A+ certification exam. You will cover the essential principles of installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, and preventative maintenance on desktop and laptop computers. You will also learn elements of customer service and communication skills necessary to work with clients.



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 Fundamentals
- Motherboards, Hard Drives, RAM, Video Cards
- 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
- CCNA Engineer

Required prerequisites

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

Courses of Concentration

Level I	Level II
Computer Hardware	Networking
Computer Software	Routing and Switching

Recommendations

- 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
- Excellent attendance record

Licenses/certification

- CompTIA A+ Certification
- CCNA Networking Fundamentals
- CCNA Routing Protocols and Concepts
- CCNA Lan Switching and Wireless
- MCTS: Windows 7, Configuration Exam 70-680
- MCTS: Windows Server 2008, Network Infrastructure 70-640

Higher education opportunities

- College credits available. See page 33.
- Associate's degree
- Bachelor's degree

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

CREDIT:
Level I - IT 2; CP English 1 (optional).
Level II - IT 2; CP English 1 (optional).