

CIS 140 : A+ ESSENTIALS I

Transcript title

A+ Essentials I

Credits

4

Grading mode

Standard letter grades

Total contact hours

50

Lecture hours

30

Other hours

20

Corequisites

CIS 145.

Recommended preparation

CIS 120 or CIS 124.

Course Description

A+ Essentials is the starting point for a career in IT. Covers the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking concepts. Prepare for the vendor neutral CompTIA A+ Essentials certification exam (220-1101). CIS 140 and 145 utilize one textbook. To become A+ certified requires you to pass both certification exams.

Course learning outcomes

1. Explain the importance, purpose, and properties of motherboard components.
2. Compare and contrast characteristics and purpose of various PC connection interfaces.
3. Identify common TCP and UDP ports, protocols, and their purpose.
4. Install and configure SOHO wireless/wired router and apply appropriate settings.
5. Install and configure laptop hardware and components.
6. Compare and contrast accessories and ports on other mobile devices.
7. Troubleshoot hard drives and RAID arrays with appropriate tools.
8. Troubleshoot and repair common mobile device issues while adhering to the appropriate procedures.

Content outline

- Motherboard components
- PC connections/interfaces
- TCP and UDP ports and protocols
- Wireless routers
- Laptop hardware

- Mobile devices
- Storage and RAID
- Troubleshooting

Required materials

Students will need regular and reliable Internet access. Shares a textbook with CIS 145.