

IST 104C : PC/Mobile Hardware and Networking

An in-depth exposure to computer hardware concentrating on CompTIA A+ Core 1 objectives. Students learn the functionality of computer hardware and suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure computer hardware and the basic installation of Windows operating systems. In addition, an introduction to networking is included. This course prepares students for the first exam in CompTIA's A+ certification path, CORE 1 (220-1001). Students registering for this course should be proficient in daily computer use (such as downloading and installing software from the internet) and should be familiar with basic computer terms.

Credits 3

Lab/Practicum/Clinical Hours 2

Lecture Hours 2

Learning Outcomes

- Demonstrate basic applications of computer technology to be competent on both a professional and personal level.
- Demonstrate scientific thought, both quantitatively and qualitatively.
- Identify all parts of a PC.
- Discuss the functions and interactions of all PC subsystems.
- Identify and troubleshoot common PC hardware problems.
- Listen, diagnose, and walk a person/customer through a troubleshooting scenario.
- Select quality PC components based on performance and cost.
- Install, replace, and upgrade PC hardware components.
- Install and troubleshoot PC peripherals such as printers and expansion devices.
- Understand basic networking principles and apply them in challenging lab exercises.
- Acquire and demonstrate safety and computer maintenance best practices skills