Course Prefix and Number: ITN 107 Credits: 3

Course Title: Personal Computer Hardware and Troubleshooting

Course Description: Includes specially designed instruction to give the student a basic knowledge of hardware and software configurations. Includes the installation of various peripheral devices as well as basic system hardware components. Lecture 3 hours per week.

General Course Purpose: This course introduces PC hardware including desktops, laptops, and mobile devices.

Course Prerequisites and Co-requisites: None

Student Learning Outcomes: Upon completing the course, the student will be able to
a. Identify and differentiate between computer hardware components including motherboards, expansion cards, storage devices, processors, and power supplies;
b. Explain and identify the purpose of common computer connection interfaces and cables;
c. Evaluate and select appropriate components for custom configuration of a computer system to meet customer specifications or needs;
d. Compare and contrast networking devices, their functions and features;
e. Install and configure laptop hardware and components;
f. Choose, install, and configure printers; and

g. Given a scenario, troubleshoot, identify, and remedy common problems related to motherboards, RAM, CPUs, hard drives, RAID arrays, video devices, and power supplies with appropriate tools.

Major Topics to Be Included:
a. Personal Computer, laptop, and mobile device hardware components and peripherals including:
   1. Power supplies
   2. Motherboards
   3. Processors
   4. Memory
   5. Hard drives
   6. Multimedia devices
b. Networking devices including cabling, routers, switches
c. Printers

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