

Computer Information Department Course Outline

NTWK 2053 MICROCOMPUTER HARDWARE SUPPORT (On Demand)

Catalog Description

This course is designed to provide the skills of basic system management for a networked microcomputer system. The students will gain hands-on computer experience providing routine maintenance, installing components, connecting peripheral interface card and other expansion cards. Laptop and mobile device hardware and maintenance is also covered. Students completing this course will have begun the preparation necessary for success in the following industry-recognized certifications: CompTIA A+ 220-901

Prerequisites

CISQ 1103 or equivalent knowledge

Credit hours/Contact hours/Load hours

3/3/3

Target Audience/Transferability

The target audience includes but is not necessarily limited to the following:

- Students pursuing a career in Networking or other computer related field.
- Students who wish to enhance their understanding of PC hardware.
- Community members or networking professionals who wish to expand their understanding of computer hardware.

Student Learning Outcomes

Upon completion of this course, student will:

- Identify PC mother board components
- Identify and install correct memory types for different motherboards
- Install and troubleshoot I/O devices
- Enumerate hard disk types and describe differences
- Identify PC form factor and power supplies
- Enumerate and discuss differences in motherboard types
- Utilize Windows- and DOS-based utilities for troubleshooting PC hardware difficulties
- Replace PC hardware components on assigned lab computers
- Completely construct a PC from the motherboard up by assembling the necessary components and installing the operating system
- Review and reinforce test study methods
- Use and apply different note taking methods for technology-based classes
- Re-enforce reading, writing and listening skills

Forms of Assessment

Lab assignments, quizzes, projects, skills tests and final exam