

**CET 211**  
**COMPUTER UPGRADE/REPAIR II**

**COURSE DESCRIPTION:**

Prerequisites: CET 111

Corequisites: None

This course is the second of two courses covering repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include resolving resource conflicts and system bus specifications, configuration and troubleshooting peripherals, operating system configuration and optimization, and other related topics. Upon completion, students should be able to identify and resolve system conflicts and optimize system performance. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

**COURSE OBJECTIVES:**

Upon completion of this course, the student will be able to:

- a. Demonstrate knowledge of managing files and directories in various operating systems
- b. Demonstrate knowledge of the low-level data structure of disk drives.
- c. Use the proper procedures to install Windows operating systems
- d. Use the proper procedures to install and remove software within Windows
- e. Analyze startup problems with Windows operating systems
- f. Use built-in diagnostics in Windows to troubleshoot common software and hardware problems
- g. Use the command line to access and retrieve information
- h. Manage users and groups using the Windows operating system
- i. Install and troubleshoot a local area network
- j. Configure a computer to connect to a server-client network or a peer to peer network

**OUTLINE OF INSTRUCTION:**

- I. Windows 98/ME
  - A. Navigating through the file structure
  - B. Installing and uninstalling Programs
  - C. Windows Control Panel
  - D. Windows Disk Utilities
  - E. Windows core system files and registry
  - F. Troubleshooting Windows startup and configuration
  - G. Managing Windows user policies

- II. DOS/Command prompt
  - A. Navigating the file system from the command prompt
  - B. Creating a file structure
  - C. DOS boot process
  - D. DOS configuration files
  - E. Floppy and Hard Drive low-level data structure
  
- III. Windows 98/ME Networking
  - A. Installing a local area network
  - B. Sharing files and accessing remote computers
  - C. Troubleshooting Network problems in Windows
  - D. Troubleshooting the Network from the command prompt
  - E. Dial up servers
  
- IV. Windows XP / 2000
  - A. Task Manager and Computer Management Console
  - B. Local users and security
  - C. Managing users in XP
  - D. Peer to peer Networking
  - E. Remote administration
  - F. Client Server Networking
  - G. Group Policy and Active Directory
  - H. Recovery Console and System Restore

**REQUIRED TEXTBOOKS AND MATERIALS:**

Andrews. A+ Guide to Managing and Maintaining your PC. Course Technology

**STATEMENT FOR STUDENTS WITH DISABILITIES:**

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.