ELEC 2227: PC Hardware & OS

A. COURSE DESCRIPTION

   Credits: 4
   Lecture Hours/Week: 3
   Lab Hours/Week: 2
   OJT Hours/Week: *
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   This course will explore the personal computer. Emphasis will be placed on the managing, monitoring and optimizing of the PC. Basic troubleshooting techniques will be discussed as it relates to the Personal Computer. The use of diagnostic and monitoring software will be emphasized. Topics covered provide a preparation for CompTia A+ certification. (Prerequisite: ELEC1500 Networking I) (4 credits: 3 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 07/01/2010 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
D. LEARNING OUTCOMES (General)
   1. Configure device drivers
   2. Manage local user accounts
   3. Install local user accounts
   4. Verify power supply operation
   5. Use control panel
   6. Install drivers
   7. Install memory
   8. Configure network adaptors
   9. Analyze file system
  10. Configure multimedia device drivers
  11. Configure hard drive
  12. Modify workstation registry
  13. Troubleshoot user-related problems
  14. Troubleshoot application failures
  15. Troubleshoot installation process failures
  16. Display interpersonal communication
  17. Display teamwork attitude
  18. Display workstation troubleshooting techniques
  19. Troubleshoot performance problems
  20. Install local group accounts
  21. Use system performance tools
  22. Troubleshoot workstation registry
  23. Configure TCP/IP client
  24. Configure workstation printers

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted