

Minnesota State College Southeast

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 adapters
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