

SYLLABUS

COURSE IDENTIFICATION: TITLE: A+ Computer Repair Part 2

ACADEMY: Engineering and Design

ROOM: 114

COURSE INSTRUCTOR: N. Ramsey
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PREREQUISITE (S): A+ Computer Repair Part 2

TEXTBOOK: Operating Systems by Michael Meyers

SUPPLIES: Notebook, pens, pencils, floppy disks.

LAB FEE: \$20

COURSE DESCRIPTION: Topics for this course cover installing, upgrading, and troubleshooting various versions of Microsoft Windows and DOS. Other topics include SCSI, Sound, Basic Networking, Video, Printers, and Laptops. Upon successful completion of this course students will be able to sit for the A+ **OS Exam** certification test (to be licensed students must also pass the A+ Core Exam which is prepped for in A+ Part I).

COURSE EXIT STANDARDS:

Upon completion of this course students will:

1. Be able to identify basic elements of a PC and their functionality
2. Be able to troubleshoot the hardware of a PC
3. Be able to troubleshoot the software of a PC
4. Be able to upgrade a PC

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COURSE OUTLINE (subject to change):

WEEK	THEME/CHAPTER(S)/ADDITIONAL MATERIALS	ACTIVITIES/MAJOR PROJECTS	EXIT STD(s)
1	DOS	History, Concepts, Commands	1
2, 3	DOS, part II	Important Files, Hardware, Viruses	1, 3
3, 4	Windows 9x	Install, upgrade, troubleshoot Windows 95, 98, and ME	1, 3, 4
5, 6	Windows 2000 and XP	Install, upgrade, troubleshoot Windows 2000 and XP	1, 3, 4
7	DOS Memory within Windows	Memory management of DOS in Windows	1, 3, 4
8	SCSI	Install, upgrade, troubleshoot Small Computer Systems Interface	1, 2, 4
9	CD Media	Concepts, installation	All
10	Sound	Types, Components, Troubleshooting	1, 2, 4
11	Video	Modules, refreshes, CRTs, LCDs, repair	All
12	Modems	Concepts, UARTs, compression, AT commands, system resources	All
13	Portable PCs	Issues, batteries, power management	All
14	Printers	Different types, Laser, repairs	All
15	Networks	Cabling, NICs, Windows configuring, troubleshooting	All

CRITERIA FOR EVALUATION: Evaluation will be based on Multiple Choice tests (similar to those used by the A+ licensure exams), various labs, and class participation. Grading is weighted:

- 60% - Labs, Class Participation
- 40% - Test average

GRADING SCALE: See the student handbook for descriptions of performance levels.

- A = 90-100
- B = 80-89
- C = 70-79
- D = 60-69
- F = Performance below 60

OTHER: Due to time limitations, this course will not prepare the students for the A+ Operating System Exam. Students will need to take the 2nd A+ course to be prepared for certification.