

Saddleback College
Division of Advanced Technology and Applied Science
Department of Electronic Technology
and Computer Maintenance Technology
CMT 220
Fall 2004

Instructor:

Eugene J. Evancoe (582-4879, TAS 111, EEVANCOE@SADDLEBACK.CC.CA.US)

Text: Mike Meyers A+ Guide to Managing and Troubleshooting PCs, Meyers and Jernigan, 2004 Edition, McGraw Hill Technology Education

Lab Manual: Mike Meyers A+ Guide to Managing and Troubleshooting PCs Lab Manual, 2004 Edition, McGraw Hill Technology Education

Course Description: the first course of two (CMT 225 is the second) in the basics of computer maintenance and repair. Includes PC hardware overview, internal PC components and circuit boards, basics of DOS, power supplies, memory, hard disk drives, and floppy drives. Lab exercises with PC's will give hands-on experience of the subjects being studied.

Course Grading:

Weekly Quizzes 30% (one per week, open notes/closed book, lowest score dropped)
Lab Exercises/Questions 35% (lowest 2 scores are dropped)
End of Chapter Lab Projects 15% (due date given in class, lowest 4 scores dropped)
Final Exam 20% (open notes/closed book)

Absences: you must notify instructor **before** the quiz is taken or an assignment is due to be turned in to be allowed a late submittal or makeup work. No quiz may be made up after the graded quiz is returned in class.

Lab Exercise Grading: you may work in groups, but each student must submit an individual report/results, and each student in a group is expected to participate equally. You may need to repeat the exercise to accomplish this. Each lab exercise will be graded 0-3. 0-2 points will be assigned by the instructor at the end of each lab period after the group/student has put away/returned equipment as needed (most of the of it remains at the lab bench). 0-1 point will be assigned based on written answers to the questions in the lab manual at the end of each lab, as applicable. These written answers are due the next class period after the lab is scheduled. There may more than one lab exercise in a lab period. If you miss a lab, that lab exercise will be counted as one of the scores to be dropped. Makeups will not be scheduled unless approved and coordinated by instructor.

Attendance Policy: regular attendance will be necessary for success in this class. In the case of borderline grades, attendance and class participation will be strongly considered.

Class Schedule

Week	Topic	Text Reading	End of Text Chapter Lab Projects	Lab Exercises
1	The Visible PC	Chapter 2	Project 2.1	2.01
2	The Visible PC	Chapter 2	Project 2.2	2.02, 2.03
3	Holiday			
4	Command Line Interface	Chapter 13	Projects 13.1, 13.2, 13.3	13.01, 13.02
5	Microprocessors	Chapter 3	Projects 3.1, 3.2	3.01, 3.02, 3.03
6	RAM	Chapter 4	Projects 4.1, 4.2	4.01, 4.02, 4.03
7	BIOS and CMOS	Chapter 5	Projects 5.1, 5.2	5.01, 5.02, 5.03
8	Expansion Bus	Chapter 6	Projects 6.1, 6.2	6.01, 6.02, 6.03
9	Motherboards	Chapter 7	Projects 7.1, 7.2	7.01, 7.03, 7.04, 7.05
10	Power Supplies	Chapter 8	Projects 8.1, 8.2	8.01, 8.02, 8.03, 8.04
11	Floppy Drives	Chapter 9	Projects 9.1, 9.2, 9.3	9.01, 9.02, 9.03
12	Hard Drive Technologies	Chapter 10	Project 10.1	10.01, 10.02
13	Hard Drive Technologies	Chapter 10	Projects 10.2, 10.3	10.03, 10.04
14	Implementing Hard Drives	Chapter 11	Project 11.1	11.01, 11.02, 11.03, 11.04
15	Implementing Hard Drives	Chapter 11	Project 11.2	11.05
16	Review for Final	None	None	None