

# Computer Repair 1 A+ Hardware – ETEK-1000 (3 Credits)

Instructor: Tony Rashid

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## **Course Materials:**

1. A+ Guide to Hardware, Fourth Edition, Jean Andrews (text)
2. Philips screw driver; size #2
3. Wrist Ground Strap

**Course Description:** This course is designed to help students prepare for the CompTIA A+ Certification Examination. You will learn the different hardware that constructs the computer and how to manage, maintain, and troubleshoot each. The course is broke into two sections: lecture and hands-on practical.

## **Class Rules:**

1. Every student must turn in their own work to receive a grade.
2. Safety is important in this lab. If a student arrives to the lab late, they may not be permitted to participate in the lab.
3. If you forget your lab course material (as described above #2 and #3), then you may borrow the material with a reduction of 10 points for each item borrowed. Everyone must have their own material.
4. **No** assignments will be accepted late. If the assignment is not turned in on the day that is due, then a zero will be given.
5. If you are absent for a lab, you must see the instructor, by the next class, to find out when you can make it up or a zero will be given.
6. A notebook must be kept. This will be collected during the semester.
7. There will be an exam for each chapter along with a final exam. The chapter exams must be taken before the start of the next lecture. If you do not take the exam before the next chapter is covered, you will receive a zero on that exam. There will be no exception to this.
8. The instructor reserves the right to lower or raise grades based on subjective values such as attitude, class participation, preparation, and understanding the material.

## **Grading Policy:**

<b>Exams*</b>	<b>25%</b>
<b>Final Exam*</b>	<b>20%</b>
<b>Hands-on Final</b>	<b>20%</b>
<b>Laboratory</b>	<b>15%</b>
<b>Notebook</b>	<b>10%</b>
<b>Project</b>	<b>10%</b>

\*Exams will come from the lecture, labs, reading of the chapters and review questions.

**Course Outline: (1000-106)**

<b>Date</b>	<b>Class work</b>	<b>LAB</b>
9/9	Go over Syllabus and Chapter 1 - Hardware Needs Software to Work	WebCT
9/16	Chapter 2 - PC Repair Fundamentals	Lab 1
9/23	Chapter 3 - Form Factors and Power Supplies	Lab 2
9/30	Chapter 4 - Processors and Chipsets	Lab 3
10/7	Chapter 5 - Motherboards	Lab 4
10/14	Chapter 6 - Upgrading Memory	Lab 5
10/21	Chapter 7 - Hard Drives	Lab 6
10/28	Chapter 8 - Installing and Supporting I/O Devices	Lab 7
11/4	Chapter 9 - Multimedia Devices and Mass Storage	Lab 8
11/11	<b>NO CLASS - HOLIDAY</b>	
11/18	Chapter 10 - PCs on a Network	Lab 9
11/25	Chapter 11 - Notebooks, Tablet PCs, and PDAs	Lab 10
12/2	Chapter 12 - Supporting Printers and Scanners	Lab 11
12/9	<b>Hands-on Final</b>	
12/16	<b>Final Exam (1-12)</b>	