

**ETE/ET 134-001/002, Computer Hardware Maintenance
Class Syllabus**

INSTRUCTOR: Michael A. Binzer
INSTRUCTOR'S OFFICE: 125 Maloney Building
OFFICE HOURS: As posted or by appointment
INSTRUCTOR'S E-MAIL: mike.binzer@kctcs.edu
COURSE WEBSITE : www.uky.edu/LCC/ET/ET134
OFFICE PHONE: 257-4872 ext. 4109

PROGRAM COORDINATOR: Mike Binzer (as above)
DIVISION CHAIR: Cindy Barber ext. 4112
DIVISION PHONE: 257-4872 ext. 4004

PREREQUISITES: Prerequisite or Concurrent CIS 110 or consent of Instructor

TEXT: "A Guide to Managing and Maintaining Your PC"
Comprehensive Fifth Edition, Jean Andrews

COURSE DESCRIPTION:

The maintenance of computer workstation hardware, including set-up of workstation for network and Internet access is presented. Internal addressing, architecture, interrupts, complete PC construction and basic troubleshooting are focal points. Lecture: 2 hours; Laboratory: 2 hours. 3 credit hours.

COURSE OBJECTIVES:

As described in the Course Description

COURSE REQUIREMENTS

One Test (Midterm)-	25%
Lab Assignments-	25%
Homework Assignments-	25%
Final Exam-	25%

GRADE SCALES:

90%-100%	A
80%-89.5%	B
70%-79.5%	C
60%-69.5%	D
Below 59.5%	E

ATTENDANCE POLICY:

Students are expected to attend lectures and labs. It is up to the student to find out what was covered in missed lectures. The labs must be completed in the LCC labs using LCC equipment.

LATE WORK POLICY:

Late work without an excused absence will be discounted by 20% per day until that assignment is returned to the class. Unexcused late work will not be accepted after that assignment has been graded and returned.

MAKEUP WORK POLICY:

Work missed due to documented excused absences will be accepted. Work missed due to unexcused absences will be considered "Late Work."

WITHDRAW POLICY:

Any student may withdraw from the class with a "W" up to and including the last day of classes.

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COURSE OUTLINE/TOPIC SEQUENCE

Additional Homework (A-1): Numbering Systems

Convert each number below to its equivalent Binary, Hex and Decimal Value (ex: if binary is given, provide the Hex and Decimal equivalent values). Binary Numbers: 10110101111, 1010001101101, 10101001011, 110101111; Hex Numbers: 10DC, 1CAD, 1D0D, C0D0; Decimal Numbers: 5835, 5198, 4096, 4097

Extra Credit (+5): Why did the programmer confuse Halloween and Christmas? (*be specific*)

Chapter 1: Introducing Hardware

Homework: Review Questions: Page 36; 1-7, 9-20

Chapter 2: How Hardware and Software Work Together

Homework: Review Questions: Page 71; 1-25

Chapter 3: Understanding the Boot Process and Command Line

Homework: Review Questions: Page 109; 1-8, 9a, 10-11, 13-30

Chapter 4: Electricity and Power Supplies

Homework: Review Questions: Page 166; 1-3, 5-10, 12-15, 18, 19, 21-25

Chapter 5: The Motherboard

Homework: Review Questions: Page 233; 1, 2, 4, 6, 7, 11, 13, 15-22, 24, 25

Chapter 6: Managing Memory

Homework: Review Questions: Page 279; 1-8, 9, 12-15, 17-23, 28-30

Chapter 7: Floppy Drives

Homework: Review Questions: Page 302; 1-13, 16, 17, 21

Chapter 8: Understanding and Installing Hard Drives

Homework: Review Questions: Page 354; 1-5, 12, 13, 15-18, 20, 22-24

Chapter 9: Optimizing and Protecting Hard Drives

Homework: Review Questions: Page 403; 1-6, 8, 11, 12, 14-17, 20-28, 31

Chapter 10: Supporting I/O Devices

Homework: Review Questions: Page 467; 1-3, 5-8, 10-12, 17, 19-23, 25-27, 31-33

Note: Other homework assignments may be assigned in addition to the list above.

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Various Details That Will Impact Your Grade:

E-mailing assignments:

I will not accept assignments sent by e-mail, attached or otherwise .

Assignment Header:

Every assignment must have a header *at the top left corner of each page*. The header must contain the following information:

Your Name	Mike Binzer
Class and section number	ET134-xxx
The assignment	Lab 1 Write-up
The date the assignment is/was <i>due</i>	1/1/00
Page number	Page 1 of 30

Multiple-paged assignments that are *stapled* together need only have the header on the top page. *I do not consider paper-clipped or bound work equivalent to stapled.*

Home-work answers:

On homework assignments, short answers will suffice. For example: if the question is “What is the wind speed velocity of a coconut-laden swallow?” You may simply give the answer “*African or European?*” without reference to the original question.

Lab Reports:

Lab reports must contain a step-by-step description of how each step in the lab was completed, as well as the result of each step. In each step of the lab, the desired action must be stated, followed by a description of what you did to complete the task, and finally the result.

Write-up questions must be answered in “full answers” in which the question is referenced. In the case of the question above, I would expect the answer “*The wind speed velocity of a coconut-laden swallow depends on the breed of the swallow. African and European swallows will fly at different speeds when bound to a coconut.*”

This method of write-up must be followed even if the step in the lab was to verify something. If asked, in step 10, to verify that windows booted properly, you may state “*10. When the computer was re-started, windows booted properly.*”

Resubmission of Labs:

The first 4 labs may be resubmitted to retrieve points lost to mistakes or misunderstandings. The lab must be re-done in full and turned in (with “RESUBMIT” in the top center of the first page, with the old lab stapled to the back) within a week of when the labs were returned to the class. Points lost due to late submission will not be retrievable. Labs that are determined to be “below the standards of collegiate level work” will not be able to be resubmitted.

Plagiarism and Cheating:

Review the “UK Student Rights and Responsibilities” Part 2.3 (<http://www.kctcs.edu/student/code.htm>) before you allow another student to borrow your work, you borrow the work of another student, or you assist others in cheating. Giving answers, copying work, and assisting other students in these activities are all punishable offenses.