



Reviewed by: A. Agundez
Reviewed by: R. Wiltout
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Computer Repair (COSC)1050 Personal Computer Repair (2 Units)
[Formerly Computer Science 50]

Advisory: Eligibility for English 1000 and Reading 1005 strongly recommended

Total Hours: 24 hours lecture; 24 hours lab (48 hours total)

Catalog Description: This course is designed for students planning to enter computer hardware replacement business. It will include demonstrations, lectures, problem assignments and hands-on experience troubleshooting a computer. The emphasis will be placed on a recent Microsoft Windows Operating System and its relationship to computer hardware components. Other operating systems will be explored.

Type of Class/Course: Degree Credit

Text: Andrews, Jean. A+ Guide to Managing and Maintaining Your PC. 5th Ed. Comprehensive. Thompson Course Technology, 2006. Saxton, Clint. A+ Lab Manual for Managing and Maintaining Your PC. 5th Ed. Thompson Course Technology, 2006.

Course Objectives:

By the end of the course a successful student will be able to:

1. differentiate between various types of operating systems,
2. manage and explain the memory utilized by the computer,
3. explain the function of the CMOS,
4. modify the settings files,
5. troubleshoot configuration errors,
6. navigate through a directory structure,
7. identify individual computer components,
8. troubleshoot peripheral components,
9. describe and explain the operation and function of key computer hardware components,
10. use and explain MS-DOS mode,
11. troubleshoot Win95 registry, and
12. build a customized computer system.

Course Scope and Content:

Unit I	Computer Basics
Unit II	Tools and Safety
Unit III	Inside the PC
Unit IV	Bus Architecture



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- Unit V Memory Overview

- Unit VI Microprocessor Overview

- Unit VII Disk Storage

- Unit VIII Input/Output Devices

- Unit IX Printers

- Unit X Connecting to Peripherals

- Unit XI Troubleshooting

Learning Activities Required Outside of Class:

The students in this class will be asked to:

1. read trade and informational magazines
2. practice skills with a computer
3. answer assigned questions

Methods of Instruction:

1. lecture, demonstration, class discussion, and problem solving
2. assigned reading from the texts and references
3. assigned problems from the texts

Methods of Evaluation:

1. Computational or non-computational problem-solving demonstrations, including
 - a. exams
 - b. quizzes
 - c. hands on demonstration

2. Other examinations, including
 - a. multiple choice
 - b. true/false
 - c. completion