

# **COURSE OUTLINE**

**CMSY-143**

**Operating System Fundamentals II**

**1 Semester Hour**

## **HOWARD COMMUNITY COLLEGE**

### **Description**

After successful completion of this course, the student will be able to explain how to support hard drives, manage memory, maintain, and troubleshoot Windows. This course is designed to meet the needs of students who want to work toward A+ certification. This course may be completed in fewer than 14 weeks and may be started at any time during the school year. All of the work for this course (except tests) may be done outside of class if the student has the appropriate operating systems. Prerequisite: CMSY-142.

### **Overall Course Objectives**

Upon completion of this course, the student will be able to:

1. Explain how to support hard drives.
2. Explain how DOS and Windows view and manage memory in WIN9X and WIN NT/2000/XP
3. Convert decimal numbers to hexadecimal and binary numbers and back again.
4. Use tools for maintenance, troubleshooting, and performance monitoring in Windows.
5. Compress, cache, and backup disks.
6. Explain how viruses work and how to protect against them.
7. Explain how to connect and share resources over a LAN and control a computer remotely.
8. Explain how to connect to the Internet using Windows.
9. Recognize the meaning of error messages and explain what to do to correct the error.

### **Major Topics**

- I. Supporting Hard Drives
  - A. Disk compression, caching, and backups
  - B. Viruses and other computer infestations
- II. Windows on a Network
  - A. Networking basics
  - B. Addressing on a network
  - C. Connecting to a network and sharing resources
  - D. Remote access to a network
- III. Windows on the Internet
  - A. The OSI Model applied to a TCP/IP Network
  - B. Connecting to the Internet using a dial-up connection
  - C. Supporting Internet clients

**Course Requirements**

- Grading/exams: Specific assignments and procedures for evaluating student performance in the class will be described in the individual class syllabus, but will include the following:
1. Multiple choice, true/false tests

**Other Course Information**

*Call 410-772-4876 between 9 a.m. and 3 p.m. for more information about this course.*  
This course is a business elective.