

**ANNE ARUNDEL COMMUNITY COLLEGE  
ARNOLD, MARYLAND**

**COURSE OUTLINE**

**COURSE NAME:** Microcomputer Operating Systems  
**COURSE NUMBER:** CSI 130  
**CREDIT HOURS:** 3 hours of lecture weekly  
**DEPARTMENT:** Computer Information Systems

**CATALOG DESCRIPTION**

CSI 130

Microcomputer Operating Systems

3 credit hours -- Three hours of lecture and directed laboratory weekly; one term.

This introduction to DOS and Windows operating environments includes basic and advanced operations and use of system utilities. Introduces DOS and UNIX/LINUX command structures and explores operations using the Windows graphical user interface. CSI 112 or CSI 113 may be taken concurrently with CSI 130 with permission of the computer information systems department chair.

Prerequisite: CSI 110, CSI 112 or CSI 113.

**LEARNING OBJECTIVES**

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

- a. Use basic commands for file and directory operations and for managing local storage devices.
- b. Create and modify executable system command files.
- c. Discuss the disk file storage structure of files, folders and subdirectories.
- d. Perform general operations in DOS, Windows, Linux and UNIX environments.
- e. Run diagnostic programs and other system utilities in DOS, Windows, Linux and UNIX environments.

**DIVISION OF SUBJECT MATTER**

**Main Topics**

**Lecture Hours**

1.0	Introduction to Operating Systems	3.0
2.0	Disk Preparation Commands and File Management Commands	2.0
3.0	Directory Management Commands	2.0
4.0	Common System Utilities	4.0
5.0	Creating and Editing Text Files	3.0

6.0	Data System Security and Device Control	2.0
7.0	Command Shell Operations and Virus Protections	3.0
8.0	Commands, Pipes, Filters and Redirection	2.0
9.0	Graphical User Interface Concepts	4.0
10.0	Program Execution, System and Print Configuration	3.0
11.0	Current GUI Environments	3.0
12.0	Exploring the Desktop, Start Menu, Taskbar, Multiple Windows	2.0
13.0	Creating Application Shortcuts	2.0
14.0	System Control, Printer Operations, Hardware/Software Installation Overview	3.0
15.0	Terminal Accessory Programs	4.0
16.0	Testing	<u>3.0</u>
	<b>Totals</b>	<b>45.0</b>

### DETAILED COURSE OUTLINE

- 1.0 Introduction to Operating Systems
  - 1.1 Hardware and Terminal Components
  - 1.2 System startup
  - 1.3 Command Syntax and Execution
  - 1.4 File Names, Extensions, Wild Card Characters
  - 1.5 Default Drives and Directories
  - 1.6 System Prompts
  - 1.7 Getting Help with Command Information
  - 1.8 Restarting the System
  - 1.9 Shutting Down the System
  
- 2.0 Disk Preparation and File Management Commands
  - 2.1 Floppy Disk Utilities
  - 2.2 Disk Format Operations and Partitioning
  - 2.3 File Commands and Disk Navigation
  
- 3.0 Directory Management Commands
  - 3.1 Common Directories and Subdirectories
  - 3.2 Creating and Removing Subdirectories
  
- 4.0 Common System Utilities4.0
  - 4.1 Disk Space Management
  - 4.2 Other File Commands
  
- 5.0 Creating and Editing ASCII/Text Files
  
- 6.0 Data System Security and Device Control
  - 6.1 Backup and Restore Operations
  - 6.2 Device Controls

- 7.0 Command Shell Operations and Virus Protection
- 8.0 Command Pipes, Filters and Redirection
- 9.0 Graphical User Interface Concepts
  - 9.1 Graphical User Interface vs. Command Language Interface
- 10.0 Program Execution, System and Print Configuration
- 11.0 Current GUI Environments System Tuning and Customization
- 12.0 Exploring the Desktop, Start Menu, Taskbar, Multiple Windows
- 13.0 Creating Application Shortcuts
- 14.0 System Control, Printer Operations, Hardware/Software Installation Overview
- 15.0 Terminal Accessory Programs
- 16.0 Testing

### **TEXTBOOKS**

**TITLE:** Windows XP Command Line  
**AUTHOR:** Carolyn Z. Gillay & Bette A. Peat (2003)  
**PUBLISHER:** Franklin, Beedle & Associates  
**ISBN:** 1887902821

**TITLE:** Desktop Operating Systems  
**AUTHOR:** Lisa Ruffolo, Harry L. Phillips (2003)  
**PUBLISHER:** Course Technology  
**ISBN:** 0-619-18592-9