Common Course Outline
ELEI 205
MICROPROCESSORS AND MICROCOMPUTERS
4 Semester Hours

The Community College of Baltimore County

Description

Microprocessors and Microcomputers
Presents the theory behind the personal computer (PC) including microcomputer fundamentals, PC hardware, and troubleshooting; discusses operating systems – DOS v.6.22, Microsoft windows – Win 3.X, Win 95, Win 98, Win 2000, and system boards. 3 lecture hours, 2 lab hours, per week.
Prerequisite: MATH 108 and ELEI 204 or consent of the program director

Overall Course Objectives
     Upon completion of this course the student will be able to:
  Boot up a PC-based system; verify correct operation of the system board; assemble or disassemble a PC-based system; verify CMOS Setup parameters; install DOS; use common DOS commands; become familiar with key DOS functions; install WIN3.x; modify Win3.x configurations; use Win 3.x to manipulate files and directories; use File Manager, Control Panel and Window's Setup utilities to control the system; install Win 95; modify Win 95 configuration; use Win 95 to manipulate files and directories; use Windows Explorer, Control Panel, and Setup; manipulate the Registry files; use Policy Editor to change system settings; use System Edit utility to change system settings; troubleshoot a PC-based system by observing how faults in different sections of the system manifest themselves; examine the configuration of a PC-based system by using only MSD software; install Win 98 and become familiar with it; install Win 2000 and become familiar with it.

Major Topics
Microcomputer Fundamentals; PC Hardware; Troubleshooting the System; Operating Systems – DOS v.6.22; Microsoft Windows, Win 3.x, Win 95, Win 98, Win 2000; System Boards.

Course Requirements
The instructor will administer tests (60%), lab work (30%), and assignments (10%).

Other Course Requirements
Additional Information about this course or other Industrial electricity/electronics course can be obtained by contacting the IEE/Telecommunications Program Director.