

# **CSIT 136**

## **Introduction to Operating Systems**

3 Credits

Community College of Baltimore County  
Common Course Outline

### **Description**

**CSIT 136 – Introduction to Operating Systems:** offers an introduction to the most widely used operating systems (including Windows, Apple OS X, and Linux). Topics include mobile operating systems, configuration, troubleshooting, file management, security, and cloud.

**Pre-requisites:** CSIT 101 or permission of the program coordinator

### **Overall Course Objectives**

Upon completion of this course, students will be able to:

1. describe the main components, functions, and classifications of operating systems;
2. describe security threats and vulnerabilities to computers and users;
3. apply storage, virtualization, and cloud computing technologies and tools;
4. apply file management principles;
5. apply system management, maintenance, and security principles;
6. demonstrate the use of shell commands to accomplish tasks;
7. apply principles of network configuration and shared resources; and
8. troubleshoot operating systems, network, and security issues.

### **Major Topics**

- I. Operating Systems
  - a. Desktop Operating Systems
  - b. Mobile Operating Systems
- II. Computer and User Security
  - a. Threats
  - b. Defense
  - c. Troubleshooting
- III. Desktop Virtualization
  - a. Configuration
- IV. Windows
  - a. Installation
  - b. Configuration
  - c. Securing
  - d. Troubleshooting
- V. Supporting and Troubleshooting Windows
  - a. Accounts
  - b. Registry

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For more information, see your professor's syllabus.

- c. Power users
  - d. Troubleshooting
- VI. Apple OS
  - a. Installation
  - b. Configuring
  - c. Securing
  - d. Troubleshooting
- VII. Linux
  - a. Desktop installation
  - b. Linux Graphical User Interface (GUI)
  - c. Linux Command Line Interface (CLI)
  - d. Securing
- VIII. Network Connection
  - a. Internet connection
  - b. Local network connection
  - c. Wireless connection
  - d. Printer and file sharing
- IX. Mobile Operating Systems
  - a. Bring your own device (BYOD)
  - b. Mobile accounts
  - c. Wireless connections
  - d. Syncing
  - e. Securing
- X. File Management in the Cloud
  - a. Public cloud
  - b. Private cloud
  - c. Data storage

### **Course Requirements**

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- three quizzes
- three capstone projects
- two exams, one of which must be a comprehensive final exam

### **Other Course Information**

A grade of C or better in this course is needed to register for any CSIT 200 level courses for which this course is a prerequisite.

Date Revised: 6/6/2023

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