



CS-301: Today's Operating Systems

Description:

3 credits/126 hours

Prerequisite: None

This course introduces operating system basics with the intent of giving a student a deeper understanding of various operating systems. Operating systems covered include Windows 7 through Windows 10 desktop operating systems, Windows Server, UNIX/Linux, and Mac OS X operating systems. Students will learn some networking basics and information involving how to create mixed environments.

Textbook: Guide to Operating Systems 5th ed., Tomsho- ISBN: 978-1-305-10764-9

Course objectives:

Throughout the course, you will meet the following goals:

- Gain an understanding of operating systems fundamentals and popular operating systems
- Learn to install, configure, and upgrade operating systems
- Configure network connections, storage devices, input and output devices
- Understand the Central Processing Unit (CPU) as well as operating systems management and maintenance
- Identify how operating systems impact virtualization and cloud computing

Contents:

Chapter 1: Operating Systems Fundamentals

Chapter 2: Popular Operating Systems

Chapter 3: The Central Processing Unit (CPU)

Chapter 4: File Systems

Chapter 5: Installing and Upgrading Operating Systems

Chapter 6: Configuring Input and Output Devices

Chapter 7: Using and Configuring Storage Devices

Chapter 8: Virtualization and Cloud Computing Fundamentals

Chapter 9: Configuring a Network Connection

Chapter 10: Sharing Resources and Working with Accounts

Chapter 11: Operating Systems Management and Maintenance

Grading Scale (70% required for passing)

A = 90-100%

B = 80-89.9%

C = 70-79.9%

F = Below 70%

Grade Weighting

Chapter Quizzes..... 50%

Activities 20%

Final Exam 30%

100%