

CSIS 1525 - Survey of Modern Operating Systems

Fall 2026 Syllabus, Section 02, CRN 44098,

Credit hours: 3

Instructor

Zachary McConnell

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Public Instructor Information

Instructor Title: Professor Zach McConnell

Instructor Professional Qualifications:

Master's of Science in Computing and Information Systems, Youngstown State University, 2022.

Bachelor of Arts in Geography Information Systems, Youngstown State University, 2020.

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Course Description

1525. Survey of Modern Operating Systems. This course presents the history of design and creation of the operating system, role and purpose of the operating system, functionality of a typical operating system, mechanisms to support client-server models, handheld devices, design issues (efficiency, robustness, flexibility, portability, security, compatibility). Influences of security, networking, multimedia, windowing systems. This course will introduce the Android, IOS, Linux, Windows, and Unix operating systems. This course is not applicable to the CSCI major. This course is not designed for beginning computer users. Beginning computer users should take CSIS 1500: Computer Literacy before taking this course. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Guide to Operating Systems, 6th edition, Tomsho, ISBN: 978-0-357-43383-6		

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Module 1	Module 1: Operating Systems Fundamentals	MindTap Assigned Activities
8/31	Module 2	Module 2: Modern Client and Server Operating Systems	MindTap Assigned Activities
9/7	Module 3	Module 3: The Central Processing Unit (CPU)	MindTap Assigned Activities
9/14	Module 4	Module 4: File Systems	MindTap Assigned Activities
9/21	Module 4 (continued)	Module 4: File Systems (continued)	MindTap Assigned Activities
9/28	Module 5	Module 5: Installing Operating Systems	MindTap Assigned Activities
10/5	Module 5 (continued)	Module 5: Installing Operating Systems (continued)	Midterm Exam
10/12	Module 6	Module 6: Devices and Device Drivers	MindTap Assigned Activities
10/19	Module 7	Module 7: Using and Configuring Storage Devices	MindTap Assigned Activities

10/26	Module 8	Module 8: Virtualization and Cloud Computing Fundamentals	MindTap Assigned Activities
11/2	Module 9	Module 9: Network Fundamentals and Configuration	MindTap Assigned Activities
11/9	Module 10	Module 10: Account and Resource Management	MindTap Assigned Activities
11/16	Module 11	Module 11: Securing and Maintaining an Operating System	MindTap Assigned Activities
11/23		Thanksgiving Break	
11/30		Modules 1-11 review	MindTap Assigned Activities
12/7		Final Exam	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.