

CSIS 1525 - Survey of Modern Operating Systems

Fall 2026 Syllabus, Section 01, CRN 40778,

Credit hours: 3

Instructor

Sean Melnik

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Public Instructor Information

Instructor Title: Mr. Sean Melnik

Instructor Professional Qualifications: Master's in Technology. Kent State University, May 2015.

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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. 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	Operating Systems Fundamentals	
8/31	Module 2	Modern Client and Server Operating Systems	Module 1 Due Tuesday 9/1
9/7	Module 3	The Central Processing Unit (CPU)	Module 2 Due Tuesday 9/8
9/14	Module 4	File Systems	Module 3 Due Tuesday 9/15
9/21	Module 5	Installing Operating Systems	Module 4 Due Tuesday 9/22
9/28	Module 6	Devices and Device Drivers	Module 5 Due Tuesday 9/29
10/5	Midterm Week	Midterm Week	Module 6 due 10/6; Midterm due Thursday 10/8
10/12	Module 7	Using and Configuring Storage Devices	
10/19	Module 8	Virtualization and Cloud Computing Fundamentals	Module 7 Due Tuesday 10/20
10/26	Module 9	Network Fundamentals and Configuration	Module 8 Due Tuesday 10/27
11/2	Module 10	Account and Resource Management	Module 9 Due Tuesday 11/3
11/9	Module 11	Securing and Maintaining an Operating System	Module 10 Due Tuesday 11/10

11/16	Project Work/Course Review	Open Sessions on Final Project & Final Exam Review	Module 11 Due Tuesday 11/17
11/23	Project Work/Course Review	Open Sessions on Final Project & Final Exam Review	No Class Thursday 11/26 (Thanksgiving Day)
11/30	Final Project Presentations	Final Project Presentations	Final Project Submission Due Tuesday 12/1
12/7	Final Exam	Final Exam	Final Exam due Thursday 12/10

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.