CSCI 5806 - Operating Systems

Fall 2026 Syllabus, Section A01, CRN 43583,

Credit hours: 3

Instructor

Hailong Jiang

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Public Instructor Information

Instructor Title: Assistant Professor
Instructor Professional Qualifications: Ph. D., Computer Science, Kent State University, 2025
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Course Description

5806. Operating Systems. Study of the various components of operating systems, including kernels and monitors, concurrency and parallel processing, processor management, storage management, device management, I/O processing, and file management. Prereq.: CSIS 3700 and CSIS 3740. 3 s.h.

Course Readings

Group	Title	Author	ISBN
	Modern Operating Systems	Tanenbaum, Andrew	9780137618941

Edition : 5TH 23

Publisher : PEARSON CO

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

Tentative Course Schedule (Subject to Change)

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1, OS boot demo	Intro to OS concepts	Quiz 1, Reflection post
8/31	Chapter 2, Context switching video	Processes and threads	Lab 1: scheduler sim Quiz 2
9/7	Chapter 3, page fault visualizer	Memory management	Lab 2: page replacment Quiz 3
9/14	Chapter 4, 5 Disk scheduling video	File system and I/O	Mini-project Quiz 4
9/21	Chapter 6, Semaphore explainer	Deadlocks and Synchronization	Lab 3: Deadlock sim Quiz 5
9/28	Chapter 7-8, Hypervisor Demo	Virtualization and Cloud system	Lab 4: Docker/VM Quiz 6
10/5	Chapter 9-12, Linux v.s. Windows Analysis	OS security, design, case study	Final project Final quiz

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.