Fall 2025 CSCI 4730/6730 – Operating Systems

General Information

• Instructor: In Kee Kim, inkee.kim@uga.edu

• Credits: 4

• Time/Classroom:

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- Tues/Thurs - 02:20 p.m. - 03:35 p.m. (@Cedar Street Building C, 0674)
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- Wed 03:00 p.m. 03:50 p.m. (@Food Science, 0131)
- Office Hours: By email appointment

Course Description

This course will focus on the key concepts in modern operating systems. Specific topics include process management, synchronization mechanisms, scheduling strategies, deadlock detection/avoidance, memory management, file systems, protection and security, virtualization, and distributed systems.

Required textbooks:

• Operating Systems Concepts, 9th or 10th Edition by A. Silberschatz, P. B. Galvin and G. Gagne

Course Topics (Tentative)

- Overview of Operating-System Structures
- Process and Thread Management
- Process Synchronization and Scheduling
- Memory Management
- File Systems and I/O
- Advanced Topics including Distributed Systems, Security, and Virtualization

Prerequisites

• CSCI4720 (Computer Architecture and Organization) or equivalent course

Programming Assignments

3 – 4 programming projects will be assigned. Late submissions will automatically lose 20% of the total point value per 24-hour period, up to 48 hours. All programming assignments must be done in C.

- Late Submission ~ 24 hrs: Your score will be up to 80% (20% penalty)
- Late Submission ~ 48 hrs: Your score will be up to 60% (40% penalty)
- Late Submission after 48 hrs: Your score will be zero.

Quizzes

These quizzes may consist of multiple-choice questions, identifying keywords, or answering a short question. The quizzes may address any material previously covered in the class or in the programming assignments.

- Quizzes will be scheduled after the completion of one or two chapters. Approximately 6 quizzes are planned (3 before the midterm exam, 3 after the midterm exam).
- Note: The quiz schedules and topics are subject to change.
- A study guide will be provided for the first quiz only.

Grading Distribution (Tentative)

Items	${\bf Undergrad}$	Graduate Students		
Class Participation	5%	5%		
Quiz	15%	20%		
Programming Assignments	30%	20%		
Midterm Exam	25%	25%		
Final Exam	25%	25%		
Presentation	_	5%		
Total	100%	100%		

Grading Cutoffs

This class uses standard grade cutoffs.

A	A-	$\mathbf{B}+$	В	В-	C+	\mathbf{C}	C-	D	\mathbf{F}
[93, 100]	[90, 92]	[87, 89]	[83-86]	[80-82]	[77-79]	[73-76]	[70-72]	[60-69]	< 60

Academic Integrity and Ethics

All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe, and ignorance is not an acceptable defense.

Examples of Academic Dishonesty in This Course

The following behaviors are strictly prohibited and will result in academic penalties:

1. Plagiarism and Unauthorized Use of AI

- Copying code from online sources, other students, or previous semesters without proper citation
- Using GitHub Copilot, ChatGPT, or other AI tools to generate code unless explicitly permitted
- Submitting work that you previously submitted for another course (self-plagiarism)
- Sharing your code with other students or posting it online
- Multiple submissions of the same work across different assignments or courses
- Falsification of citations or claiming others' work as your own

2. Unauthorized Assistance

- Collaborating on individual programming assignments
- Looking at another student's code or allowing them to look at yours
- Discussing implementation details of programming assignments with classmates
- Using online tutoring services or paid assistance for assignments
- Accessing previous years' solutions or test materials

3. Attendance Fraud and Lying

- Having someone else sign you in for class attendance (proxy attendance)
- Signing in for another student who is not present
- Falsifying reasons for late submissions or missed exams
- Altering graded work and requesting a regrade
- Providing false documentation for absences
- Falsification of data in programming assignments or lab reports
- Fabricating experimental results or program outputs

4. Exam Violations

- Using any electronic devices during exams unless explicitly permitted
- Accessing notes, textbooks, or online resources during closed-book exams
- Communicating with others during exams
- Sharing or discussing exam content with students who haven't taken it
- Cheating on exams through any means (copying, signals, unauthorized materials)
- Taking photos or recordings of exam questions
- Using bathroom breaks to access unauthorized materials

Consequences

First offense **typically results in a zero on the assignment** and a report to the Office of Academic Honesty. Subsequent violations may lead to course failure and academic probation or dismissal.

Clarification on Collaboration

- Allowed: Discussing general concepts, debugging strategies, and course material
- Not Allowed: Sharing code, looking at others' code, or working together on implementation
- When in doubt: Ask the instructor BEFORE submitting the assignment

For the complete UGA Academic Honesty Policy, visit:

• https://honesty.uga.edu/Academic-Honesty-Policy/