

CS 350-01(Fall 2008)
Fundamentals of Computer Operating Systems
220 AH, TTH 11:00-12:30

Instructor: S. Krishnaprasad (“KP”)
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Text: *Operating System Concepts with Java*, Seventh edition, by Silberschatz, Galvin, and Gagne, John Wiley, 2007 ([Text web link.](#))

Objectives: Gain a basic understanding of the nature and purpose of operating systems. Study the resource management role of OS regarding processor, memory, input/output device and file management. Study fundamental concepts related to asynchronous operations, interrupt processing, multiprogramming and multiprocessing. Gain experience in simulating a subset of OS functions.

Grading:	Homework – Written Assignments	15%
	Homework – Programming Assignments	15%
	Exam I	15%
	Exam II	15%
	Term Project	20%
	Final Exam	20%

Homework: There will be four written homework assignments and three programming homework assignments given during the semester. All assignments are due on the date and time specified for them. ***No credit will be given for late submission of assignments except for legitimate reasons.*** See the Class Policies note below on legitimate reasons.

Term Project: The term project will involve the design and implementation of a simulation for a subset of a hypothetical operating system. It will be assigned around midterm.

Class Policies:

1. Class roll will be taken as attendance and participation in each class is expected.
2. No make-up exam will be given except for those with legitimate reason.
Legitimate reasons:
 - a. sickness or emergency (with documented evidence)
 - b. participation in a scheduled university event (with prior notice to instructor)
3. Any student who receives failing grades during the course is urged to discuss this with the instructor in person. **No grades will be given out or discussed either over the phone or via email.**
4. All requests for accommodations (disabilities, school events, etc.) are welcome.

Class Policies (continued):

5. The academic misconduct policy of the University will be followed in this course. The policies of academic honesty will be strictly enforced in this class. You are expected to do your own work. Copying another student's work will not be tolerated. Students must adhere to the University Policy on Academic Honesty as specified in the [JSU Student Handbook](#).

6. All students are expected to attend class fully prepared with appropriate materials. All devices, which make noise, must be turned to the off position (e.g., cellular phones, pagers, personal stereos, etc.). Any student behavior deemed disruptive by the professor will result in expulsion of the student from the classroom, with an absence for the day and possible disciplinary action.

TENTATIVE COURSE SYLLABUS

Introduction to Computer Systems & Operating Systems (Chapters 1 & 2)

Process Management: Processes and Threads and CPU Scheduling (Chapters 3, 4 & 5)

EXAM ONE

Storage Management: Memory Management & Virtual Memory (Chapters 8 & 9)

Process Management: Process Synchronization & Deadlocks
(Chapters 6 & 7)

EXAM TWO

Storage Management: File-System Implementation, Mass-Storage Structures & I/O
Systems (some of the concepts from Chapters 11, 12, & 13)

Protection & Security (some of the concepts from Chapters 14 & 15)

FINAL EXAM

NOTE: It is expected that the student is familiar with Java programming as taught at JSU in CS 232 course. If not, it is your responsibility to learn and practice Java programming on your own. Instructor will occasionally point out some Java-related programming concepts with examples and handouts.

GO GAMECOCKS!!!