

# CSCI 4210 Operating Systems (OpSys)

Textbooks { [GSH] **Principles of Modern Operating Systems, 2nd ed.** by Garrido, Schlesinger, and Hoganson  
 [Tan] **Modern Operating Systems, 4th ed.** by Tanenbaum and Bos  
 [C] **The C Programming Language, 2nd ed.** by Kernighan and Ritchie

Week	Topics/Focus	Recommended Readings	Monday	Tuesday	Wednesday	Thursday	Friday
1	C, Memory Allocation, Libraries in C, I/O, Buffering, System Calls	C: Ch.1-4 GSH: Ch.1, App.A, G Tan: Ch.1, 10	1/25: [LIVE] Syllabus, Schedule, Course Overview			1/28: NO CLASS MEETING	
2	C, I/O, File Descriptors, realloc()	C: Ch.5, 8, App.B	2/1: [LIVE] Q&A			2/4: [LIVE] Q&A [LEC Ex 1 due]	2/5: [add deadline]
3	Process Management, fork(), wait(), waitpid()	C: Ch.6-8 GSH: Ch.2 Tan: Ch.2	2/8: [LIVE] Q&A		2/10: [HW 1 due]	2/11: [LIVE] Q&A	
4	Zombies, fork(), pipe(), Inter-Process Comm (IPC)	GSH: Ch.3, 4, App.E Tan: Ch.10	2/15: NO CLASSES (President's Day)		2/17: [LEC Ex 2 due]	2/18: [LIVE] Q&A	
5	CPU Scheduling, Queuing Theory, Exponential Avg	GSH: Ch.5 Tan: Ch.2	2/22: [LIVE] Q&A			2/25: NO CLASS MEETING	
6	CPU Scheduling		3/1: [LIVE] Q&A		3/3: [HW 2 due]	3/4: [LIVE] Q&A	
7	Exam 1 Review		3/8: [LIVE] Q&A		3/10: [EXAM 1]	3/11: [LIVE] OH	
8	Concurrency, Pthread, Synchronization	GSH: Ch.2, 6, App.B Tan: Ch.2, 6, 8	3/15: [LIVE] Q&A			3/18: [LIVE] Q&A	3/19: [drop deadline]
9	Pthread, Synchronization, Deadlock	GSH: Ch.7 Tan: Ch.6	3/22: [LIVE] Q&A			3/25: [LIVE] Q&A	3/26: [LEC Ex 3 due]
10	Network Programming	GSH: Ch.12	3/29: [LIVE] Q&A [Project due]			4/1: [LIVE] Q&A	
11	Network Programming, select()		4/5: [LIVE] Q&A			4/8: [LIVE] Q&A	4/9: [HW 3 due]
12	Exam 2 Review		4/12: [LIVE] Q&A		4/14: [EXAM 2]	4/15: [LIVE] Q&A	4/16: [P/NC deadline]
13	File Systems, select(), Memory Management	GSH: Ch.8, 10 Tan: Ch.3, 4	4/19: [LIVE] Q&A			4/22: [LIVE] Q&A	
14	Paging, Segmentation, Virtual Memory		4/26: [LIVE] Q&A		4/28: [LEC Ex 4 due]	4/29: [LIVE] Q&A	
15	Final Exam Review		5/3: [LIVE] Q&A [HW 4 due]	5/4-5/5: NO CLASSES (Reading Days)			
16			5/10: [FINAL EXAM 6:30PM EDT]				

Spring 2021

(schedule subject to change)

last updated 4/15/2021