CprE 281: Class Schedule (Spring 2024)

Week	Day/Date		Topic	Readings	Homework	Lab
1	Monday	1/15	NO CLASS: University Holiday			No Lab
	Wednesday	1/17	Introduction	1.1, 1.2, 1.3, 1.4		
	Friday	1/19	Binary Numbers	1.5, 1.6		
2	Monday	1/22	Truth Tables & Logic Gates	2.1, 2.2, 2.3, 2.4	HW 1 is due on Monday at 11:59 PM	Lab 1
	Wednesday	1/24	Boolean Algebra	2.5		
	Friday	1/26	AND, OR, NOT	2.6		
3	Monday	1/29	NAND, NOR	2.7	HW 2 is due on Monday at 11:59 PM	Lab 2
	Wednesday	1/31	Design Examples	2.8		
	Friday	2/2	Intro to Verilog	2.9, 2.10		
4	Monday	2/5	Karnaugh Maps	2.11	HW 3 is due on Monday at 11:59 PM	Lab 3
	Wednesday	2/7	Minimization	2.12, 2.13		
	Friday	2/9	Functions and Circuits	2.14, 2.15, 2.16	**Quiz 01**	
5	Monday	2/12	Examples	2.17	HW 4 is due on Monday at 11:59 PM	Lab 4
	Wednesday	2/14	Midterm Review Session			
	Friday	2/16	Midterm #1			
6	Monday	2/19	Addition of Unsigned Numbers	3.1, 3.2		Lab 5
	Wednesday	2/21	Signed Numbers	3.3		
	Friday	2/23	Fast Adders	3.4, 3.5		
7	Monday	2/26	Multiplication	3.6	HW 5 is due on Monday at 11:59 PM	Mini Project
	Wednesday	2/28	Floating Point Numbers	3.7		
	Friday	3/1	Multiplexers	4.1	**Quiz 02**	
8	Monday	3/4	Decoders & Encoders	4.2, 4.3	HW 6 is due on Monday at 11:59 PM	Lab 6
	Wednesday	3/6	Code Converters	4.4, 4.5		
	Friday	3/8	Latches	5.1, 5.2, 5.3		
	Friday	3/8	* Midterm Grade Reports Due *			
9	Monday	3/11	No Classes: Spring Break			No Lab
	Wednesday	3/13	No Classes: Spring Break			
	Friday	3/15	No Classes: Spring Break			

Week	Day/Date		Topic	Readings	Homework	Lab
10	Monday	3/18	D Flip-Flops	5.4	HW 7 is due on Monday at 11:59 PM	Lab 7
	Wednesday	3/20	T Flip-Flops & JK Flip-Flops	5.5, 5.6, 5.7		
	Friday	3/22	Registers & Register Files	5.8	**Quiz 03**	
11	Monday	3/25	Counters	5.9, 5.10	HW 8 is due on Monday at 11:59 PM	Lab 8
	Wednesday	3/27	Midterm Review Session			
	Friday	3/29	Midterm # 2	***DROP DEADLINE***		
12	Monday	4/01	Examples with Counters	5.11, 5.14, 5.17	HW 9 is due on Monday at 11:59 PM	Lab 9
	Wednesday	4/03	Basic Design Steps	6.1		
	Friday	4/05	State-Assignment Problem	6.2		
	Friday	4/05	FINAL PROJECT Details			
13	Monday	4/8	Moore & Mealy Machines	6.3, 6.4	HW10 is due on Monday at 11:59 PM	Lab 10
	Wednesday	4/10	Serial Adder & Arbiter Circuit	6.5, 6.8		
	Friday	4/12	State Minimization	6.6		
14	Monday	4/15	Designing a Counter	6.7	HW11 is due on Monday at 11:59 PM	Lab 11
	Wednesday	4/17	Analysis of Syn. Seq. Circuits	6.9		
	Friday	4/19	ASM Charts & Examples	6.10 – 6.13	**Quiz 04**	
15	Monday	4/22	Register Machines		HW12 is due on Monday at 11:59 PM	Work on Final Project
	Wednesday	4/24	The i281 CPU			
	Friday	4/26	Arithmetic Logic Unit			
16	Monday	4/29	Transistors			Final Project Demo
	Wednesday	5/1	Transistors + Review			
	Friday	5/3	Final Review Session			
17	Finals Week	5/08	FINAL EXAM @ 2:15 PM	Everything		No Lab