

CprE 281: Class Schedule (Fall 2023)

Week	Day/Date	Topic	Readings	Homework	Lab
1	Monday 8/21	Introduction	1.1, 1.2, 1.3, 1.4		No Lab
	Wednesday 8/23	Binary Numbers	1.5, 1.6		
	Friday 8/25	Truth Tables & Logic Gates	2.1, 2.2, 2.3, 2.4		
2	Monday 8/28	Boolean Algebra	2.5	HW 1 due	Lab 1
	Wednesday 8/30	AND, OR, NOT	2.6		
	Friday 9/1	NAND, NOR	2.7		
3	Monday 9/4	NO CLASS: University Holiday			Lab 2
	Wednesday 9/6	Design Examples	2.8	HW 2 due	
	Friday 9/8	Intro to Verilog	2.9, 2.10		
4	Monday 9/11	Karnaugh Maps	2.11	HW 3 due	Lab 3
	Wednesday 9/13	Minimization	2.12, 2.13		
	Friday 9/15	Functions and Circuits	2.14, 2.15, 2.16		
5	Monday 9/18	Examples	2.17	HW 4 due	Lab 4
	Wednesday 9/20	Midterm Review Session			
	Friday 9/22	Midterm #1			
6	Monday 9/25	Addition of Unsigned Numbers	3.1, 3.2	HW 5 due	Lab 5
	Wednesday 9/27	Signed Numbers	3.3		
	Friday 9/29	Fast Adders	3.4, 3.5		
7	Monday 10/2	Multiplication	3.6		Mini Project
	Wednesday 10/4	Floating Point Numbers	3.7		
	Friday 10/6	Multiplexers	4.1		
8	Monday 10/9	Decoders & Encoders	4.2, 4.3	HW 6 due	Lab 6
	Wednesday 10/11	Code Converters	4.4, 4.5		
	Friday 10/13	Latches	5.1, 5.2, 5.3		
	Friday 10/13	* Midterm Grade Reports Due *			
9	Monday 10/16	D Flip-Flops	5.4	HW 7 due	Lab 7
	Wednesday 10/18	T Flip-Flops & JK Flip-Flops	5.5, 5.6, 5.7		
	Friday 10/20	Registers & Register Files	5.8		

Week	Day/Date	Topic	Readings	Homework	Lab
10	Monday 10/23	Counters	5.9, 5.10	HW 8 due	Lab 8
	Wednesday 10/25	Midterm Review Session			
	Friday 10/27	Midterm # 2			
	Friday 10/27	***DROP DEADLINE***			
11	Monday 10/30	Examples with Counters	5.11, 5.14, 5.17	HW 9 due	Lab 9
	Wednesday 11/1	Basic Design Steps	6.1		
	Friday 11/3	State-Assignment Problem	6.2		
12	Monday 11/6	Moore & Mealy Machines	6.3, 6.4	HW 10 due	Lab 10
	Wednesday 11/8	Serial Adder & Arbiter Circuit	6.5, 6.8		
	Friday 11/10	State Minimization	6.6		
13	Monday 11/13	Designing a Counter	6.7	HW 11 due	Lab 11
	Wednesday 11/15	Analysis of Syn. Seq. Circuits	6.9		
	Friday 11/17	ASM charts & Examples	6.10 – 6.13		
14	Monday 11/20	NO CLASS: Thanksgiving Break			No Lab
	Wednesday 11/22	NO CLASS: Thanksgiving Break			
	Friday 11/24	NO CLASS: Thanksgiving Break			
15	Monday 11/27	Register Machines		HW 12 due	Lab 12
	Wednesday 11/29	The i281 CPU			
	Friday 12/1	i281 Assembly Language			
16	Monday 12/4	Arithmetic Logic Unit & PC		HW 13 due	Lab 13
	Wednesday 12/6	Software-Hardware Interface			
	Friday 12/8	Assembly Examples			
17	Finals Week 12/??	FINAL EXAM @ time TBD	everything		No Lab