Week of	Topics	Approximate textbook sections			
		Wakerly 4th	Wakerly 5th	Willis and Willis	Harris and Harris
18-Aug	Class logistics and introduction	1.2, 1.4	1.2, 1.4		1.1-1.3, 2.1
	Boolean logic and expressions	4.0-4.1	3.0-3.1	BA	2.2
	Switches and switch networks	3.1		SW	
25-Aug	Algebraic manipulation and simplification	4.1			2.3
	Transistors, logic levels, CMOS	3.3	1.9, 14.1-2		1.6, 1.7
	Gate-level design	1.3, 3.1, 4.2, 6.1.2, 6.1.7	1.5, 3.2, 4.1.2	GD	1.4, 2.4
1-Sep	(Monday holiday)				
	Mixed-logic notation and manipulation	4.3.2, 6.1.3-5	3.3.2, 4.1.3-6	GD	2.5
	Logic simplification with K-maps & SoP	2.11, 4.1.6, 4.3.3-5	2.11, 3.3.3	BA, SP	2.2.2, 2.7
8-Sep	Circuit timing	3.6, 4.4, 6.2	3.4, 4.2, 14.4		2.9
	Lab 1: Combinational circuits	1.6, 3.2, 3.4-5	1.7		
15-Sep	Number systems (representations, bases, math)	2.0-2.4	2.0-2.3	NS, AR	1.4, 5.3
	Test 1: Digital logic and implementation, 19-Sep				
22-Sep	Number systems (negatives, fractions)	2.5-2.7	2.4-2.7	NS	
	Building blocks; adders, subtractors	6.1.1, 6.1.8, 6.10	6.1, 4.1.1, 4.1.8-9, 8.1		5.2
	Encoders, decoders, implementation and uses	6.4, 6.5	6.3	BB	
29-Sep	Muxes, demuxes, implementation and uses	3.7.1, 3.7.3, 6.7	6.4, 7.1	BB	1.7.7, 2.8.1-2
	Latches & Flip-flops	7.0-7.2	10.1-10.2	LR	3.2
6-Oct	Finite state machines	7.3-4	9.1, 9.5		3.1, 3.4
	Test 2: Numbers; Building blocks, 10-Oct				
13-Oct	(Monday/Tuesday holiday)				
	Designing FSM behavior	7.5			
	Physical FSM implementation	7.6-7.7	9.3		
20-Oct	Flip-flop and state machine timing	8.1.4	9.2, 13.1		3.5
	FSM architectures				
	Lab 2: Finite state machines				
27-Oct	Memory and data storage	6.6, 9.1	7.1, 15.1-3		2.6, 5.5
	Memory block combination				
3-Nov	Test 3: Sequential logic, memory, processors 7-Nov				
	Datapath elements				5.2.4, 5.5.5
10-Nov	Single-cycle datapath; Microcode				
	Processor architecture				7.1-3
17-Nov	Low-level programming				6.*
24-Nov	Test 4: Optional redemption exam, 26-Nov				
	(Wednesday-Friday holiday)				
1-Dec	Course review				
	Final Exam: Cumulative, (Thurs. 5-Dec, 6:00 PM)				