

ECE 2210

A. Stolp

Tentative

08/24/20

COURSE SCHEDULE

Week	Date	lect	Topics	Textbook
1	T 08/25	1	Introduction, Basic electrical units & symbols, Kirchoff's laws, Switches	Ch1, 2.1-3, 2.17, 3.3
	Th 08/27	2	Resistance, Ohm's law, Power, Resistors in parallel & series, Dividers	2.5-7, 2.11-12, 3.5
2	T 09/01	3	Sources, Nodes, Grounds, Branches, Meters, Superposition	2.10, 2.12-18
	Th 09/03	4	Source models, Thevenin & Norton Eq. Circuits, Max power transfer	2.19
3	M 09/07	Labor Day		
	T 09/08	5	Finish Thevenin & Norton Examples, Networks, Nodal analysis	2.19, notes
	Th 09/10	6	Battery types, Charging, Solar	3.2, 5.6, notes
4	T 09/15	7	Introduction to AC & Signals	2.20
	Th 09/17	8	Capacitors, Inductors	2.23, 3.6, 2.24
5	T 09/22	Exam 1		
	Th 09/24	9	Inductors, Resonance, RL first order transients	2.24, 3.7, 2.30
6	T 09/29	10	First order transients	2.34
	Th 10/01	11	Steady-state Sinusoids, Phasors, & Complex numbers	2.25-26
7	T 10/06	12	Phasors, Impedance, & AC circuits	2.27
	Th 10/08	13	AC circuit examples	2.29-30
8	T 10/13	Exam 2		
	Th 10/15	14	Filters & Bode plots	2.31-33, notes
	lab lect	15	Second order transients, Laplace Impedance, Transfer functions	2.34, notes
9	T 10/20	16	Second order transients, Time-domain solutions	notes
	Th 10/22	17	Second order transients, Initial and final conditions	notes
10	T 10/27	18	Second order transient examples, Systems	notes
	Th 10/29	19	Diodes basics, Diodes in DC circuits	4.2
11	T 11/03	20	Diodes in AC circuits, Rectification	4.2, notes
	Th 11/05	21	Transistors, bjt	4.3
12	T 11/10	Exam 3		
	Th 11/12	22	Transistors, Switching circuits, MOSFETS	4.3, notes
	lab lect	23	Operational Amplifiers	Ch 8
13	T 11/17	24	Operational Amplifiers	Ch 8
	Th 11/19	25	DC motors, PWM	Ch 14, notes
14	T 11/24	26	RMS and AC Power	2.21-22
	Th 11/26	Thanksgiving		
15	T 12/01	27	AC Power, Transformers	2.28, 3.8
	Th 12/03	28	AC Power, 3 phase, Y, Delta, examples	Appendix A
	F 12/04		Review, 3:05 pm	
16	M 12/07	Review, 1:00 pm		
	T 12/08	Final Exam, 8:00 - 10:00 am		