

ECE 2210

Tentative

A. Stolp

08/16/23

Fall 2023 COURSE SCHEDULE

Week	Date	lect	Topics	Textbook
1	T 08/22	1	Introduction, Basic electrical units & symbols, Kirchhoff's laws	Ch1, 2.1-3, 2.17
	Th 08/24	2	Resistance, Ohm's law, Power, Resistors in parallel & series	2.5-7, 2.11-12, 3.5
2	T 08/29	3	Voltage and current dividers, Sources, Nodes, Grounds, Branches, Meters	2.10, 2.12-16
	Th 08/31	4	Superposition, Practical voltage and current sources	2.18, 3.2
3	M 09/04		Labor Day	
	T 09/05	5	Thevenin & Norton Equivalent Circuits, Max power transfer	2.19
	Th 09/07	6	Thevenin & Norton Equivalent Circuits	notes
4	T 09/12	7	Networks, Nodal analysis	2.17, notes
	Th 09/14	8	Introduction to AC & Signals, Capacitors	2.29, 2.23
5	T 09/19		Exam 1	
	Th 09/21	9	Capacitors, Inductors	2.23, 3.6, 2.24
6	T 09/26	10	Inductors, Resonance, RC first order transients	2.24, 3.7, 2.30
	Th 09/28	11	First order transients, Recall complex numbers	2.34
7	T 10/03	12	Complex numbers, Steady-state Sinusoids, Phasors, & Impedance	2.25-26
	Th 10/05	13	Phasors, Impedance, & AC circuits	2.27
	S 10/07		Fall Break	
	Su 10/15			
8	T 10/17	14	AC circuit examples	2.29-30
	Lab Lect	15	Filters & Bode plots	2.31-33, notes
	Th 10/19		Exam 2	
9	T 10/24	16	Second order transients, Laplace Impedance, Transfer functions	2.34, notes
	Th 10/26	17	Second order transients, Time-domain solutions	notes
10	T 10/31	18	Second order transients, Initial and final condntions	notes
	Th 11/02	19	Second order transient examples, Systems	notes
11	T 11/07	20	Diodes basics, Diodes in DC circuits	4.2
	Th 11/09	21	Diodes in AC circuits, Rectification	4.2, notes
	Lab Lect	22	Diodes, Transistors & Switching circuits	4.3, notes
12	T 11/14		Exam 3	
	Th 11/16	23	Transistors, Operational Amplifiers	Ch 8
13	T 11/21	24	Operational Amplifiers	Ch 8
	Th 11/23		Thanksgiving	
14	T 11/28	25	Op Amps, RMS and AC Power	2.21-22
	Th 11/30	26	AC Power	2.21-22
15	T 12/05	27	AC Power, examples, ME Design day	2.28, 3.8
	Th 12/07	28	AC Power, Transformers, 3 phase, Y, Delta	Appendix A
16	Th 12/14		Zoom Review	
	F 12/15		Final 8:00 am	