

ECE 2210

A. Stolp

01/17/21

Tentative

COURSE SCHEDULE

Week	Date	lect	Topics	Textbook (3rd ed.)
	M 01/18		Martin Luther King Day	
1	W 01/20	1	Introduction, Basic electrical units & symbols, Kirchhoff's laws, Switches	Ch1, 2.1-3, 2.17, 3.3
	F 01/22	2	Resistance, Ohm's law, Power, Resistors in parallel & series, Dividers	2.5-7, 2.11-12, 3.5
2	W 01/27	3	Sources, Nodes, Grounds, Branches, Meters, Superposition	2.10, 2.12-18
	F 01/29	4	Source models, Thevenin & Norton Eq. Circuits, Max power transfer	2.19
3	W 02/03	5	Finish Thevenin & Norton Examples, Networks, Nodal analysis	2.19, notes
	F 02/05	6	Battery types, Charging, Solar	3.2, 5.6, notes
4	W 02/10	7	Introduction to AC & Signals	2.20
	F 02/12		Exam 1	
5	M 02/15		Presidents Day	
	W 02/17	8	Capacitors, Inductors	
	F 02/19	9	Inductors, Resonance, RL first order transients	2.24, 3.7, 2.30
6	W 02/24	10	First order transients	2.34
	F 02/26	11	Steady-state Sinusoids, Phasors, & Complex numbers	2.25-26
7	W 03/03	12	Phasors, Impedance, & AC circuits	2.27
	F 03/05	13	AC circuit examples	2.29-30
8	W 03/10		Exam 2	
	F 03/12	14	Filters & Bode plots	
9	W 03/17	15	Second order transients, Laplace Impedance, Transfer functions	2.34, notes
	F 03/19	16	Second order transients, Time-domain solutions, Initial and final conditions	notes
10	W 03/24	17	Second order transient examples, Systems	notes
	F 03/26	18	Diodes basics, Diodes in DC circuits	4.2
11	W 03/31	19	Diodes in AC circuits, Rectification	4.2, notes
	F 04/02		Exam 3	
12	W 04/07	20	Transistors, bjt	4.3, notes
	F 04/09	21	Transistors, Switching circuits, MOSFETS	Ch 8
13	W 04/14	22	Operational Amplifiers	
	F 04/16	23	DC motors, PWM	Ch 14, notes
14	W 04/21	24	RMS and AC Power	2.21-22
	F 04/23	25	AC Power, RMS, examples	2.28, 3.8
15	W 04/28		Problem Session at normal class time	
16	M 05/03		Final Exam, 8:00am	