

ECE 3600 Spring Semester

01/07/24

Week	Month	Mon	Tue	Wed	Thur	Fri
1	Jan	8 L1 Introduction, Energy sources, generation, & environment	9	10 L2 Hw1, Review of steady-state AC and phasors	11	12 L3 Review of steady-state AC and phasors
2		15 Martin Luther King Day	16	17 L4 RMS, Single-phase AC power	18	19 L5 Single-phase AC power, P, Q, S, S , pf, pf correction
3		22 L6 Single-phase AC power, 3-phase power	23	24 L7 3-phase power, Y- and delta-connections	25	26 L8 3-phase power, balanced systems, efficiency, One-line diagrams
4		29 Field Trip	30	31 L9 Electromagnetics, Ideal transformers, Ratings	1	2 L10 Transformation of impedance, Model of the non-ideal transformer
5	Feb	5 L11 Non-ideal transformer, tests	6	7 L12 Transformer voltage reg., Autotransformers, 3-phase, etc.	8	9 L13 Power system diagrams Per-unit system
6		12 Exam 1	13	14 L14 Per-unit system	15	16 L15 Rotational Motion, AC Machinery Fundamentals
7		19 Presidents Day	20	21 L16 Synchronous machines	22	23 L17 Synchronous machines as generators, examples
8		26 L18 Placing generator on line, Synchronous machines as motors	27	28 L19 Synchronous motors, pf correction	29	1 L20 3-phase Induction motors,
	Mar	4 Spring Break	5	6	7	8
9		11 L21 3-phase Induction motors, examples	12	13 L22 3-phase Induction motors, tests	14	15 L23 Single-phase Induction motors
10		18 Exam 2	19	20 L24 DC motors	21	22 L25 DC motors
11		25 Field Trip	26	27 L26 DC motors & loads	28	29 L27 Finish DC motors, Transmission lines
12	April	1 L28 Transmission lines	2	3 L29 Transmission line models, calculations & examples	4	5 Exam 3
13		8 Field Trip	9	10 L30 Power System & Power Flow Problem	11	12 L31 Power Flow Problem, Faults
14		15 L32 Types of faults, The 3 "sequences"	16	17 L33 Faults, Sequence Impedances	18 ME Design Day, Union Build.	19 L34 Protection
15		22 L35 Protection	23 Last Day of Classes	24 Reading Day, ECE 3600 Review	25 ECE3600 Final 3:30 pm	26
16	May	29	30	1	2 Freedom	3