

ECE 3600

Tentative

A. Stolp

01/08/23

Spring 2023 COURSE SCHEDULE

Week	Date	lect	Topics	Textbook
1	M 01/09	1	Introduction, Energy sources, generation, & environment	1.1
	W 01/11	2	Hw1 Review of steady-state AC and phasors	notes, 1.2
	F 01/13	3	Review of steady-state AC and phasors	notes
2	M 01/16	Martin Luther King Day		
	W 01/18	4	RMS, Single-phase AC power	notes, 1.8
	F 01/20	5	Single-phase AC power, P, Q, S, S , pf, pf correction	notes, 1.8
3	M 01/23	6	Single-phase AC power, 3-phase power	2.1 - 2
	W 01/25	7	3-phase power, Y- and delta-connections	2.3 - 6
	F 01/27	8	3-phase power, balanced systems, efficiency, One-line diagrams	2.4 - 6
4	M 01/30	9	Electromagnetics, Ideal transformers, Ratings	1.4, Ch 3
	W 02/01	10	Transformation of impedance, Model of the non-ideal transformer	3.4 - 5
	F 02/03	11	Non-ideal transformer, tests	3.7 - 8
5	M 02/06	12	Transformer voltage reg., Autotransformers, 3-phase, etc.	3.9 - 10
	W 02/08	13	Finish transformers, Power system diagrams	3.6
	F 02/10	Exam 1		
6	M 02/13	14	Per-unit system	3.6, 10.1
	W 02/15	15	Per-unit system	3.6, 10.2
	F 02/17	16	Rotational Motion, AC Machinery Fundamentals	1.3, Ch 4
7	M 02/20	Presidents Day		
	W 02/22	17	Synchronous machines	5.1 - 6
	F 02/24	18	Synchronous machines as generators, examples	5.8, Ch 6
8	M 02/27	19	Placing generator on line, Synchronous machines as motors	Ch 6, 5.9
	W 03/01	20	Synchronous motors, pf correction	5.10 - 13
	F 03/03	21	3-phase Induction motors,	7.1 - 5
9	S 03/04	Spring Break		
	Su 03/12			

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Week	Date	lect	Topics	Textbook
10	M 03/13	22	3-phase Induction motors, examples	7.6 - 8
	W 03/15	23	3-phase Induction motors, tests	7.9 - 10
	F 03/17		Exam 2	
11	M 03/20	24	Single-phase Induction motors	notes
	W 03/22	25	DC motors	notes, 8.1-2
	F 03/24	26	DC motors	8.4 - 9
12	M 03/27	27	DC motors & loads	8.10
	W 03/29	28	DC motors & loads	notes
	F 03/31	29	Transmission line models and calculations	notes, 9.1-5
13	M 04/03	30	Transmission line models and calculations	9.8 - 9
	W 04/05		Exam 3	
	F 04/07	31	Transmission lines, Power System & Power Flow	9.6, 10.1-3
14	M 04/10	32	Power Flow	11.1 - 3
	W 04/12	33	Power Flow, Faults	11.1-3,
	F 04/14	34	Types of faults, The 3 "sequences"	notes, 12.0
15	M 04/17	35	Faults, Sequence Impedances	Ch 12
	W 04/19	36	Protection	notes, Ch
	Th 04/20		ME Design Day, Union Build.	
	F 04/21	37	Protection	Ch 13
16	M 04/24	38	Protection	Ch 13
	T 04/25		Last Day of Classes	
	W 04/26		Reading Day	
	Th 04/27		Finals Begin	
	F 04/28			
17	M 05/01			
	T 05/02		ECE 3600 Review	
	W 05/03		3600 Final 3:30 pm	
	Th 05/04		Freedom	