

# ECE 3600

A. Stolp

08/23/21

Tentative

## COURSE SCHEDULE

Week	Date	lect	Topics	Textbook
1	T 08/24	1	Introduction, Energy sources, generation, & environment	notes
	Th 08/26	2	Review of steady-state AC and phasors	1.1,2, notes
2	T 08/31	3	Review of RMS, Single-phase AC power	notes, 1.8
	Th 09/02	4	Single-phase AC power, P, Q, S,  S , pf, pf correction	
3	M 09/06	Labor Day		
	T 09/07	5	3-phase power, Y- and delta-connections	2.1-2
	Th 09/09	6	3-phase power, balanced systems, One-line diagrams, Efficiency	2.4-6
4	T 09/14	7	Electromagnetics	2.6, 1.4
	Th 09/16	8	Ideal transformers, Ratings, Transformation of impedance	1.4
5	T 09/21	9	Transformers, Model of the non-ideal transformer	3.1-4
	Th 09/23	10	Transformer voltage regulation, Autotransformers, 3-phase, etc.	3.5-8
6	T 09/28	11	Per-unit system	3.9-12
	Th 09/30	Exam 1		
7	T 10/05	12	Per-unit system	3.9-12
	Th 10/07	13	Rotational Motion, AC Machinery Fundamentals	1.3, Ch 4
8	S 10/09	Fall Break		
	Su 10/17			
8	T 10/19	14	Synchronous machines	5.1-4
	Th 10/21	15	Synchronous machines as generators	5.4-8
9	T 10/26	16	Synchronous machines as motors, pf correction	5.9-13
	Th 10/28	17	Synchronous generator on line	Ch 6
10	T 11/02	18	3-phase Induction motors	Ch 7
	Th 11/04	19	Induction motors	Ch 7
11	T 11/09	20	Single-phase Induction motors	notes
	Th 11/11	Exam 2		
12	T 11/16	21	DC motors	Ch 8
	Th 11/18	22	DC motors	Ch 8
13	T 11/23	23	DC motors, Loads	Ch 8, notes
	Th 11/25	Thanksgiving		
14	T 11/30	24	DC motors, Loads	notes
	Th 12/02	25	Transmission lines and models	Ch 9
15	T 12/07	26	Transmission line models and calculations	Ch 9
	Th 12/09	27	Transmission line models and calculations	Ch 9
16	M 12/13	Review, 4:00 ?? (may change, listen in class)		
	T 12/14	Final Exam, 1:00 - 3:00 PM		