

ECE 3600

A. Stolp

Tentative

08/13/25

Fall 2025 COURSE SCHEDULE

Week	Date	lect	Topics	Textbook
1	T 08/19	1	Introduction, Energy sources, generation, & environment	1.1
	W 08/20	2	Hw1, Review of steady-state AC and phasors	notes, 1.2
	Th 08/21	3	Review of steady-state AC and phasors	notes, 1.2
2	T 08/26	4	RMS, Single-phase AC power	notes, 1.8
	W 08/27	5	Single-phase AC power, P, Q, S, S , pf, pf correction	notes, 1.8
	Th 08/28	6	Single-phase AC power, 3-phase power, Y and delta connections	2.1 - 3
3	M 09/01		Labor Day	
	T 09/02	7	3-phase power, balanced systems, efficiency, One-line diagrams	2.4 - 6
	W 09/03		Lab 1 (group A) or Gadsby power plant field trip (group B)	
	Th 09/04	8	Electromagnetics, Ideal transformers, Ratings	1.4, Ch 3
4	T 09/09	9	Transformation of impedance, Model of the non-ideal transformer	3.4 - 5
	W 09/10		Lab 1 (group B) or Gadsby power plant field trip (group A)	
	Th 09/11	10	Non-ideal transformer, Voltage reg., Autotransformers, 3-phase, etc.	3.7 - 10
5	T 09/16	11	Per-unit system, One-line diagrams	3.6, 10.1
	W 09/17		Exam 1	
	Th 09/18	12	Per-phase, Per-unit	3.6, 10.2
6	T 09/23	13	Rotational Motion, AC Machinery Fundamentals, Synchronous machi	1.3, Ch4, 5
	W 09/24		Lab 2 A, Transformer model	
	Th 09/25	14	Synchronous machines as generators, Examples	5.1-6, Ch 6
7	T 09/30	15	Placing generator on-line, Sync machines as motors, pf correction	notes
	W 10/01		Lab 2 B, Transformer model	
	Th 10/02	16	Sync motor examples, Starting Sync motors, 3-phase Induction motor	5.9 - 13
	S 10/04		Fall Break	
	Su 10/12			
8	T 10/14	17	3-phase Induction motors, examples	7.1 - 5
	W 10/15		Dispatch Center field trip	
	Th 10/16	18	3-phase Induction motor examples	7.6 - 8
9	T 10/21	19	3-phase Ind motor types, tests, Single-phase Induction motors	7.9-10,notes
	W 10/22		Exam 2	
	Th 10/23	20	Single-phase Induction motors, DC motors	notes, 8.1-2

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Week	Date	lect	Topics	Textbook
10	T 10/28	21	DC motors	8.4 - 9
	W 10/29		Lab 3 A or Field trip B	
	Th 10/30	22	DC motors & loads	8.10, notes
11	T 11/04	23	Finish DC motors, Transmission lines	notes, 9.1-5
	W 11/05		Lab 3 B or Field trip A	
	Th 11/06	24	Transmission line models and calculations	9.8-9, 9.6
12	T 11/11	25	Finish transmission lines, Power Flow	10.1-3, 11.1
	W 11/12		Lab 3 or Field trip remainder	
	Th 11/13	26	Power Flow & example	8.1
13	T 11/18	27	Faults	Ch 12 - 13
	W 11/19		Exam 3	
	Th 11/19	28	Types of faults, The 3 "sequences"	Ch13, notes
14	T 11/25	29	Sequence Impedances, Protection, ME Design Day??	notes
	W 11/26		Lab 4 A, DC motors	
	Th 11/27		Thanksgiving	
15	T 12/02	30	Protection, ME Design Day?? (not sure of date)	notes
	W 12/03		Lab 4 B, DC motors	
	Th 12/04	31	Protection, Review	notes
	F 12/05		Reading Day	
16	T 12/09		Review	
	W 12/10		Final 1:00	
17	M 12/15		Freedom	