

ECE 3600

Tentative

A. Stolp

08/23/10

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	M 08/30	3	Review of RMS, Single-phase AC power, P, Q, S, S , pf, pf correction	notes, 1.8
	T 08/31		Field Trip - Gadsby Power plant (in place of lab but at class time)	
	Th 09/02		Field Trip (Alt)	
3	M 09/06		Labor Day	
	T 09/07	4	3-phase power, Y- and delta-connections	2.1-2
	Th 09/09	5	3-phase power, balanced systems	2.4-5
4	M 09/13		First lab: Electrical safety & Power factor correction	
	T 09/14	6	3-phase power, Efficiency, One-line diagrams,	2.6, 1.4
	Th 09/16	7	Electromagnetics, Ideal transformers	1.4
5	T 09/21	8	Transformers, Model of the non-ideal transformer	3.1-4
	Th 09/23	9	Per-unit system, Transformer voltage regulation	3.5-8
6	M 09/27		Lab 2: Iron cores & transformer model	
	T 09/28	10	Autotransformers, 3-phase, Transformer ratings, etc.	3.9-12
	Th 09/30		Exam 1	
7	T 10/05	12	Rotational Motion, AC Machinery Fundamentals	1.3, Ch 4
	Th 10/07	13	Synchronous machines	5.1-4
	S 10/09		Fall Break	
	Su 10/17			
8	M 10/18		Field Trip - Rocky Mountain Power dispatch & substation (in place of lab)	
	T 10/19	14	Synchronous machines as generators	5.4-8
	Th 10/21	15	Synchronous machines as motors, pf correction	5.9-13
9	M 10/25		Lab 3: Synchronous machines, Connection to the "line"	
	T 10/26	16	Synchronous generator on line	Ch 6
	Th 10/28	17	3-phase Induction motors	Ch 7
10	M 11/01		Field Trip - TBA (alternates with lab 3)	
	T 11/02	18	Single-phase Induction motors	Ch 7
	Th 11/04	19	DC motors	Ch 8
11	T 11/09	20		
	Th 11/11		Exam 2	
12	M 11/15		Lab 4: Induction motors	
	T 11/16	21	DC motors	Ch 8
	Th 11/18	22	DC motors	Ch 8
13	T 11/23	23	Transmission lines and models	Ch 9
	Th 11/25		Thanksgiving	
14	M 11/29		Lab 5: DC motors	
	T 11/30	24	Transmission line models and calculations	Ch 9
	Th 12/02	25	Symmetrical faults	Ch 12
15	T 12/07	26	Faults, The 3 "sequences"	Ch 12, 13
	Th 12/09	27	Unsymmetrical faults	Ch 13
			Review	
16	F 12/17		Final Exam, 1:00 - 3:00 PM	