ECE 3600

COURSE SCHEDULE

A. Stolp 08/23/15

COURSE SCHEDULE					
Week	(Date	lect	Topics	Textbook
1	T Th F	08/25 08/27 08/28	1 2	Introduction, Energy sources, generation, & environment Review of steady-state AC and phasors Field Trip - Gadsby Power plant (in place of lab)	notes 1.1,2, notes
2	M T Th F	08/31 09/01 09/03 09/04	3 4	Field Trip - Gadsby Power plant (in place of lab but starts at 2:00pm) Review of RMS, Single-phase AC power Single-phase AC power, P, Q, S, S , pf, pf correction Field Trip - Gadsby Power plant (in place of lab)	notes, 1.8
3	М	09/07		Labor Day	
	Т	09/08 09/10 09/11		3-phase power, Y- and delta-connections 3-phase power, balanced systems, Efficiency First lab: Electrical safety & Power factor correction	2.1-2 2.4-6
4	M T Th	09/14 09/15 09/17		First lab: Electrical safety & Power factor correction One-line diagrams, Electromagnetics Ideal transformers, Ratings, Transformation of impedance	2.6, 1.4 1.4
5	T Th F	09/22 09/24 09/25		Transformers, Model of the non-ideal transformer Transformer voltage regulation, Autotransformers, 3-phase, etc. Field Trip - Rocky Mountain Power dispatch (in place of lab)	3.1-4 3.5-8
6	M T	09/28 09/29 10/01	11	Field Trip - Rocky Mountain Power dispatch (in place of lab but may start at 2:00pm) Per-unit system Exam 1	3.9-12
	F	10/01		Lab 2: Transformer model	
7	M T Th	10/05 10/06 10/08		Lab 2: Transformer model Rotational Motion, AC Machinery Fundamentals Synchronous machines	1.3, Ch 4 5.1-4
	S	10/10 10/18		Fall Break	
8	Т	10/20		Synchronous machines as generators Synchronous machines as motors, pf correction	5.4-8 5.9-13
9				Field Trip - Substation (alternates with lab 3) Lab 3: Synchronous machines, Connection to the "line" Synchronous generator on line 3-phase Induction motors	Ch 6 Ch 7
10	T Th		_	Induction motors Single-phase Induction motors	Ch 7 Ch 8
11	Т	11/10	20	DC motors	
		11/12		Exam 2	
12	T Th	,		Lab 4: Induction motors DC motors DC motors	Ch 8 Ch 8
13	T	11/24 11/26	23	Transmission lines and models Thanksgiving	Ch 9
14				Lab 5: DC motors Transmission line models and calculations Symmetrical faults	Ch 9 Ch 12
15	T Th			Faults, The 3 "sequences" Unsymmetrical faults	Ch 12, 13 Ch 13
16	T W	12/15 12/16		Review, 3:30 ?? (may change, listen in class) Final Exam, 1:00 - 3:00 PM FCF 3600 Fall 2015 C	Sauraa Cabadiila