				ECE 3600 Tentative	A. Stolp 08/16/12
Week		Date	laat	COURSE SCHEDULE Topics	Touthook
1	T Th	08/21 08/23 08/24	1	Introduction, Energy sources, generation, & environment Review of steady-state AC and phasors Field Trip - Gadsby Power plant (in place of lab)	Textbook notes 1.1,2, notes
2	Т	08/27 08/28 08/30		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	notes, 1.8
3		09/03	_	Labor Day	0.4.0
		09/04 09/06 Lab		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	Т	09/10 09/11 09/13	7 8	First lab: Electrical safety & Power factor correction One-line diagrams, Electromagnetics Ideal transformers, Ratings, Transformation of impedance	2.6, 1.4 1.4
5	Th	09/18 09/20 09/21		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	Т	09/24 09/25 09/27	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	Lab		Lab 2: Iron cores & transformer model	
7				Lab 2: Iron cores & transformer model Rotational Motion, AC Machinery Fundamentals Synchronous machines	1.3, Ch 4 5.1-4
		10/06 10/14		Fall Break	
8				Synchronous machines as generators Synchronous machines as motors, pf correction	5.4-8 5.9-13
9	Т			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				Induction motors Single-phase Induction motors	Ch 7 Ch 8
11		11/06 11/08	20	DC motors Exam 2	
12				Lab 4: Induction motors DC motors DC motors	Ch 8 Ch 8
13		11/20 11/22	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				Faults, The 3 "sequences" Unsymmetrical faults	Ch 12, 13 Ch 13
16	M T	12/10 12/11		Review, 3:30 ?? (may change, listen in class) Final Exam, 1:00 - 3:00 PM	