ECE 3600 Exam 1 Study Guide	The 1 st Exam will be on Thursday 9/27/12.
The first part will be a closed book, no calculator questions, ~ 20 - 40 points	
The second part will be a open book, open notes, with calculator problems.	
<u>The exam will cover</u> 1. HW 1 Energy sources, plant efficiencies	Possible closed-book questions All
2. HW 2 AC steady-state review, used extensively throughout class	
3. HW 3 RMS & Single-phase AC power. P \mid Q S \mid S \mid pf corre	ection of pf Basic relationships and units What is "good"
4. HW 4&5 3-phase AC power. $V_L V_{LL} V_{LN} I_L I_{LL} I_Y S_{3\phi}$ $Z_Y = \frac{Z_{\Delta}}{3} Z_{\Delta} = 3 \cdot Z_y$ pf correction	•
Basic one-Line diagrams	
5. HW 6 Magnetic circuits $B = \mu \cdot H \qquad H = \frac{N \cdot i}{l_c}$	Flux density, Field intensity, Permeability, B-H curve.
7. HW 7 - 8 Transformers, including nonideal	Transformer basics, including ratings and impedance transformation.
8. Lab 1	Electrocution Safety. Deadly current, body resistance, etc.
	Basic concepts
9. Field trip to Gadsby power plant	Rankine power cycle
You can download old exams from HW page on class web site. But remember, they may cover more than we did in our class.	