ECE 3600 Exam 1 Study Guide The 1st Exam will be on Tuesday 9/27/11.

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.

The exam will cover	Possible closed-book questions
1. HW 1 Energy sources, plant efficiencies	All
2. HW 2 AC steady-state review, used extensively throughout class	
3. HW 3 RMS & Single-phase AC power. P Q S $\lvert S\rvert$ pf correction 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 $S_{3\phi}$ $S_{1\phi}$ $Z_Y = \frac{Z_\Delta}{3}$ $Z_\Delta = 3 \cdot Z_y$ pf correction of pf	Basic magnitude and phase relationships
5. HW 6 Magnetic circuits $B = \mu \cdot H$ $H = \frac{N \cdot i}{l_c}$	Flux density, Field intensity, Permeability, B-H curve.
7. HW 7 - 8 (p1-p2) Ideal Transformers	
8. Lab 1	Electrocution Safety. Deadly current, body resistance, etc.
9. Field trip to Gadsby power plant	

You can download old exams from HW page on class web site.
But remember, they may cover more than we did in our class.