Tasks for this week:

Overview of Analog audio amplifier block diagram, drive and load requirements, efficiency, introduction to complementary symmetry, and problems. Review of bipolar transistors, and device models. Sketch, analyze, simulate, measure.

Study Material: Do a web search on Complementary Symmetry Amplifier, sketch a few simple schematics, calculate voltages and currents for 8 ohm load.

Homework--Technical Interview Questions:

1. Starting with a blank sheet of paper. Sketch a simplified schematic for a Complementary Symmetry Output stage for 40 watts into an 8 ohm load. Choose power supply voltages and currents.

2. Starting with a blank sheet of paper. Illustrate the concept of crossover distortion using a schematic, time-domain waveform sketch, and frequency domain spectrum sketches.

Important note: These two homework problems will be given as separate ten minute in class quizzes sometime in October.

Using the Textbook and other resources--Layers of the Onion metaphor.

Read: Quick overview of material to acquire basic understanding
Study: Understand the basic concepts, math models, and expressions
Practice: Do the homework problems
Reference: Create new circuits using the text material as reference

Midterm exam date:

In Class November 2. Closed book, no notes, no calculators.

Final exam content:

Standard Analog IC Design Interview Questions.