

ECE 137A Winter 2009 Tentative Syllabus

1. Solid-State Diodes & Diode Circuits
2. MOSFET – Physics
3. Bipolar Junction Transistor – Physics
4. Analog Systems
5. Ideal Op-Amps
6. Poles & Zeros: A Brief Review
7. Small-signal Analysis
8. Single-stage Transistor (MOS&BJT) Amplifier Stages
9. Biasing single stage amplifiers
10. Multi-stage amplifiers
11. Differential-pair
12. Op-amp design
13. Frequency Response
14. Feedback & Stability
15. Tanslinear circuits (If time permits)