## ECE 327: Electronic Devices and Circuits Laboratory I

## Notes for Lab 0 (Introduction/Instrumentation Lab)

- 1. Class introduction (instructor policies take precedence)
  - Distribute syllabus
  - Introduce instructor
    - Contact information
    - Office hours
  - Purpose of course
    - 3 Rank 3/4 students, 2 Circuits course, 7 Not MOSFET-heavy 323
    - Introduction to analog electronics. Focusses on application of (discrete) electronics
      - \* Here, electric waveforms are analogous to input acoustic (pressure) waveforms
    - Originally was meant to complement ECE 323
    - BJTs and operational amplifiers (i.e., focus on active-mode analog electronics)
    - New course organization and history (i.e., history of senior-level ECE 427 and prereqs)
  - Other labs (analog ECE 628, quarter project ECE 667, bad matches ECE 710/723)
  - Grades (instructor policies take precedence)
    - Daily quizzes (20%), Lab reports (40%), Lab clean-up (10%), Final exam (30%)
  - Breadboards and **FLOPPY DISKS** (or a decent camera)
  - Table seating
- 2. Introduction to lab texts
  - Contents of UniPrint Notes
    - Lab introduction
    - Project description
    - Parts list
    - Part pin-outs
    - 7 laboratory texts
    - End-of-quarter project (omitted)
  - Supplementary texts from instructor (available on-line)
  - Horowitz and Hill's The Art of Electronics (optional)
  - Sedra and Smith's *Microelectronic Circuits* (optional)
- 3. Introduction to quarter project (infrared audio modem and amplifier to drive  $8\Omega$  speaker)
- 4. Instrumentation refresher "lab" complete short laboratory described in handout
- 5. Reminder about breadboards and **floppy disks** (or decent cameras)