Final Review

Two hour exam.

More heavily weighted towards the latter half of the class.

- Basic Concepts of Current, Voltage, Time
- Translation between schematics and netlists
- KCL analysis
- Linux
 - Survival commands: ls, pwd,
 - File system references:
 - File redirection: > >
 - Wildcard usage: *
- Capacitors
 - What they do, terminal characteristics
 - Defining characteristic: $I_C = C \frac{dv}{dt}$, what does it mean?
 - How voltage increases across a cap when charged through a resistor
- Inductors
 - What they do, terminal characteristics
 - Defining characteristic: $V_L = L \frac{di}{dt}$, what does it mean?
 - How current increases through a inductor when it flows through a resistor
- Diodes
 - What they do, terminal characteristics
 - How they work as rectifiers and waveform generators (waveform shape emphasis)
- BJTs
 - What they do, terminal characteristics,
 - Terminal names, current flow directions
- Lab
 - DMM usage
 - Anything we did in lab