ENEE 303 Fall 2012 Topics for the final exam.

- 1. CMOS inverter
 - a. Input-output characteristics
 - b. Transistor states and sizing
- 2. NMOS and NPN current mirrors
 - a. Biasing
 - b. Small signal equivalent
 - c. Transient response, C loaded
- 3. Small signal parameters from series expansion about Q point.
- 4. Load line and biasing
- 5. Stability of logic gate with multiple bias points
- 6. Voltage transfer functions; poles and zeroes