

**EE 105 Formal Report Grading (total 10 pts)**

**Abstract** including results and comments (0.5)..... \_\_\_\_\_

**Theory (4)**

Schematics of amplifiers (0.5)..... \_\_\_\_\_

The methods we used to measure  $A_v$ ,  $R_{in}$ , and  $R_{out}$  (0.5)..... \_\_\_\_\_

Derivation of common emitter amplifier's  $R_{in}$  (0.5)..... \_\_\_\_\_

Derivation of common emitter amplifier's  $R_{out}$  (0.5)..... \_\_\_\_\_

Derivation of common emitter amplifier's  $A_v$  (0.5)..... \_\_\_\_\_

Derivation of common collector amplifier's  $R_{in}$  (0.5)..... \_\_\_\_\_

Derivation of common emitter amplifier's  $R_{out}$  (0.5)..... \_\_\_\_\_

Derivation of common emitter amplifier's  $A_v$  (0.5)..... \_\_\_\_\_

**Experimental Results (3)**

**Analysis and Conclusion (2.5)**

CE amplifier's  $A_v$ ,  $R_{in}$ , and  $R_{out}$  (0.5)..... \_\_\_\_\_

CC amplifier's  $A_v$ ,  $R_{in}$ , and  $R_{out}$  (0.5)..... \_\_\_\_\_

Effect of source and load resistances on  $A_v$ ,  $R_{in}$ , and  $R_{out}$  (0.5).... \_\_\_\_\_

SPICE simulations (0.5)..... \_\_\_\_\_

Any other interesting points you want to discuss (0.5)..... \_\_\_\_\_