

Needed for Lab 5 (blue) and Lab 6 (red). Resistors can be substituted with equivalent within 15%. For example, if 47 kOhm not avail, use 22K+22K=44 K. Capacitors are fewer, try to get those marked.

Lab 6  
Lab 5

ECE 2100 Lab Kit	QTY	Item	QTY
¼ W Resistor 10M Ω	2	150pF Capacitor	1
0.0022uF Capacitor	1	0.0047uF Capacitor	1
0.1 uF Capacitor	2	0.01uF Capacitor	1
0.022uF Capacitor	1	0.033uF Capacitor	1
10uF Capacitor	2	47uF Capacitor	1
0.047uF Capacitor	1	1uF Capacitor	2
100uF Capacitor	1	1N4001 Diode	6
1N4148 Diode	1	1N5227B Zener Diode	1
UA741 Op Amp	3	10K Ω Potentiometer	1
2N3906 PNP Transistor	4	74LS00 Quad 2-input NAND	1
7812 +12 Volt Regulator	1	2N3904 NPN Transistor	4
Alignment tool	1		

0.001 uF or 0.0047 uF  
paired with 100 kOhm 22 kOhm

ECE 2100 Lab Kit	QTY	Item	QTY
¼ W Resistor 100 Ω	2	¼ W Resistor 120 Ω	2
¼ W Resistor 270 Ω	1	¼ W Resistor 470 Ω	1
¼ W Resistor 1K Ω	10	¼ W Resistor 1.5K Ω	2
¼ W Resistor 2.2K Ω	2	¼ W Resistor 2.7K Ω	1
¼ W Resistor 3.9K Ω	1	¼ W Resistor 5.6K Ω	1
¼ W Resistor 8.2K Ω	1	¼ W Resistor 10K Ω	3
¼ W Resistor 11K Ω	1	¼ W Resistor 15K Ω	1
¼ W Resistor 22K Ω	2	¼ W Resistor 27K Ω	1
¼ W Resistor 47K Ω	1	¼ W Resistor 68K Ω	1
¼ W Resistor 100K Ω	1	¼ W Resistor 110K Ω	1
¼ W Resistor 220K Ω	1	¼ W Resistor 390k Ω	1
¼ W Resistor 680K Ω	1	¼ W Resistor 1M Ω	1
¼ W Resistor 4.7M Ω	1	¼ W Resistor 5.6M Ω	3