



Electrical and  
Computer  
Engineering

ECE Second-year  
Tools and Parts Kit

Student Name: \_\_\_\_\_

E-mail: \_\_\_\_\_



**a place of mind**

**THE UNIVERSITY OF BRITISH COLUMBIA**

List of items included in the ECE Second-year Tools and Parts Laboratory Kit:

Table 1

Item #	Quantity	Manufacturer	Manufacturer Part Number	Description
1	2	Circuit-Test	MB-830 / MB-102	Breadboard, 95x183mm, 830 Holes
2	1	RP Electronics	BR1	Solderable Breadboard - 47 x 179mm, 830 points
3	1	Circuit-Test	CT-160	Wire Stripper
4	1	Circuit-Test	ST-2	Long Nose Pliers
5	1	Circuit-Test	CT-DRIVER	Pocket Screwdriver - Phillips #0
6	1	Circuit-Test	CT-140	Shear Cutter 5"
7	3	Circuit-Test	150-310W	HOLDER BATTERY 1CELL AA 6"LEAD
8	1	CUI Inc.	PJ-102A	CONN PWR JACK 2X5.5MM SOLDER
9	1	RP Electronics	370-213-2	Red & Black Banana plugs
10	1	RP Electronics	33-412-1	Red Alligator clip
11	1	RP Electronics	33-411-1	Black Alligator clip
12	5	Vishay/Draloric/BC Components	K102K15X7RF53H5G	K 50V 1NF 10% X7R BULK GREEN AUT
13	5	TDK Corporation	FA18C0G2A103JRU06	CAP CER 10NF 100V COG/NP0 RADIAL
14	10	KEMET	C322C104J5R5TA	CAP CER 0.1UF 5% 50V X7R RADIAL
15	5	Murata Electronics	RDER71H105K2M1H03A	CAP CER 1UF 50V X7R RADIAL
16	2	KEMET	ESM227M063S1A5H200	CAP ALUM 220UF 35V 20% RADIAL
17	2	KEMET	ESK107M025AE3EA	CAP ALUM 100UF 20% 25V RADIAL
18	2	Nichicon	UVR1E102MPD	CAP ALUM 1000UF 20% 25V RADIAL
19	2	Panasonic Electronic Components	ECA-1EM100B	CAP ALUM 10UF 20% 25V RADIAL
20	3	Bourns Inc.	RLB1014-104KL	INDUCTOR 100MH T/H RADIAL
21	3	Texas Instruments	TL081BCP	IC OPAMP JFET 1 CIRCUIT 8DIP
22	2	Texas Instruments	LM358P	IC - Op Amp - Dual 8-Dip
23	3	Texas Instruments	NE555 / LM555	IC OSC SINGLE TIMER 8-DIP
24	1	Murata Electronics North America	PV36W104C01B00	TRIMMER 100K OHM 0.5W TH
25	1	STMicroelectronics	L7805CV	IC REG LDO 5V 1.5A TO220AB
26	5	Micro Commercial Co	2N3906-AP	TRANSISTOR PNP GP 40V TO92
27	5	Micro Commercial Co	2N3904-AP	TRANSISTOR NPN GP 40V TO92
28	4	Onsemi	FQU13N06LTU-WS	N-Channel 60 V 11A (Tc) 2.5W (Ta), 28W (Tc) I-PAK
29	4	Onsemi	FQU8P10TU	MOSFET P-CH 100V 6.6A IPAK
30	10	RP Electronics	1N4148-10	1N4148 - Diode Signal
31	2	Vishay General Semiconductor	1N5226B-TR	DIODE ZENER 3.3V 500MW DO35
32	5	RP Electronics	1N4742A-5	1N4742A - Zener Diode 12V 1W
33	10	RP Electronics	1N4007-10	1N4007 - Diode 1A 1000V
34	10	Würth Elektronik	151031SS04000	LED RED DIFFUSED 3MM ROUND T/H
35	2	RP Electronics	ICSM-8	DIP SOCKET, 8POS, VERTICAL THD, 2.54MM
36	1	RP Electronics	GB-401	Resistor Kit, 10pcs of ea: 10, 51, 100, 1k, 2k, 3k, 3.9k, 5.1k, 10k, 100k
37	1	Uline	S-7022	Safety Glasses over prescription Glasses
38	1	Circuit-Test	MB-968	JUMPER WIRE M TO F 200mm 24AWG - 20 wire
39	1	Circuit-Test	MB-966	JUMPER WIRE M TO M 200mm 24AWG - 20 wire
40	1	Circuit-Test	10-HS22K6-25	22AWG Solid Hookup Wire kit w/ dispenser
41	1	Circuit-Test	SR-360	Lead Free Silver Solder - 1.0mm, 12g Tube
42	1	MG Chemicals	424-NS	No-Clean Fine Braid Super Wick - 1.5mm, 1.5m
43	1	CTS Electrocomponents	206-4	SWITCH SLIDE DIP SPST 50MA 24V
44	2	Panasonic Electronic Components	EVQ-11U04M	SWITCH TACTILE SPST-NO 0.02A 15V
45	4	Texas Instruments	SN74HC00N	IC GATE NAND 4CH 2-INP 14-DIP
46	2	Texas Instruments	SN74HC04N	IC HEX INVERTER 14-DIP
47	1	Texas Instruments	CD74HC173E	IC FF D-TYPE SNGL 4BIT 16DIP
48	1	Circuit-Test	150-901	STRAP BATT ECON 9V I STYLE 4"LD
49	1	Circuit-Test	10-HT22-BK/RD-2	2m of Red and Black 22 AWG (7 x 30) Stranded Wire