

Updated		1/9/2009		Assumed Class Size		40	Students																	
				Recent Size		19	55 - W09 (Guthaus); 50- S08 (Schlag); 29 - W08 (Larrabee)						CMF											
				Max Size		50							Proposed		Current		Change							
Parts Kit													13.62		15.00		-1.38							
Student Labor for Parts Kit													2.00		5.00		-3.00							
Consumables													0.34		0.00		0.34							
Printing													15.00		10.00		5.00							
Total Lab Fee													30.96		30.00		0.96							
UC Santa Cruz CMPE100 Parts Kit List 2009																								
Item	Qty / kit	Description	Mfr	Mfr P/N	Vendor	Vendor P/N	Price/ea.	Price/ea.	Price/ea.	Price/ea.	Quantity	Quantity	Per Kit	Per Class	Class	Notes								
							A	B	C	D	Needed	Rate	Cost	Cost	Cost									
							1	10	100	1000	Per Quarter	to Use (Qbest)			using Q1 Rate									
1	1	Breadboard, plug-in, 830pin, 6.5x2.125 inches			Jameco	20723	9.99	9.00	7.35		40	8.00	8.00	320.00	399.60	Use Q-100 rate as board is used in multiple classes								
2	4	resistor, 2.2K ohm, carbon film, 1/4 watt, 5%			Digikey	200KQBK-ND	0.06	0.06	0.06	0.010	160	0.06	0.26	10.24	10.24									
3	4	resistor, 1K ohm, carbon film, 1/4 watt, 5%			Digikey	100KQBK-ND	0.06	0.06	0.06		160	0.06	0.26	10.24	10.24									
4	1	LED, red			Jameco	94511	0.16	0.16	0.12		40	0.16	0.16	6.40	6.40									
5	2	LED, green			Jameco	34761	0.15	0.15	0.14		80	0.15	0.30	12.00	12.00									
6	1	LED, yellow			Jameco	34825	0.25	0.19	0.15		40	0.19	0.19	7.60	10.00									
7	2	SN74LS00; quad 2-input NAND, TTL, 14pin DIP			Jameco	46252	0.41	0.35	0.24		80	0.35	0.70	28.00	32.80									
8	2	SN74LS02; quad, 2-input NOR, TTL, 14pin DIP			Jameco	46287	0.45	0.41	0.34		80	0.41	0.82	32.80	36.00									
9	2	SN74LS04; hex, inverters, TTL, 14pin DIP			Jameco	46316	0.41	0.26	0.23		80	0.26	0.52	20.80	32.80									
10	1	pico fuse, 1A			Digikey	F2313-ND	0.61	0.56	0.42	0.271	40	0.56	0.56	22.44	24.40									
11	1	Power Jack, 2.5 mm, PCB mount (for 5V adapter)			Digikey	CP-102B-ND	0.38	0.33	0.25		40	0.33	0.33	13.20	15.20									
Parts Cost Only													12.09	483.72	589.68									
Santa Cruz County Sales Tax (8.5%)													1.03	41.12	50.12									
Estimated Shipping Costs (Assume \$10 per order)													0.50	20.00	20.00									
Kit Cost - Parts Only													13.62	544.84	659.80									
Student Labor to Inventory Parts, Make Order, Assemble & Distribute Kits (8 hrs for class at \$10.00/hr)													8	10.00	2.00	80.00	80.00							
Consumables																								
50	0.25	Wire, 24 gage solid, Black	Belden	9975-1000-10	Newark		29.95				0.25		7.4875		500 ft spool - assumed to last 4 classes									
51	0.25	Wire, 24 gage solid, Red	Belden	9975-1000-2	Newark		29.95				0.25		7.4875		500 ft spool - assumed to last 4 classes									
53	0.25	Wire, 24 gage solid, White	Belden	9975-1000-5	Newark		29.95				0.25		7.4875		500 ft spool - assumed to last 4 classes									
53	0.25	Wire, 24 gage solid, Green	Belden	9975-1000-4	Newark		29.95				0.25		7.4875		500 ft spool - assumed to last 4 classes									
54	0.25	Wire, 24 gage solid, Yellow	Belden		Newark		29.95				0.25		7.4875		500 ft spool - assumed to last 4 classes									
Sales Tax													3.18											
Shipping													25.00			heavy shipment								
Student Replacement Parts Kit													13.62			1 kit for every 20 students								
Consummable total for class													13.62											
Printing																								
57	100	Laserprinter Paper & Toner					0.15						15.00		10 wks, 10 pages per week									