

Prices effective Fall 2007

Subject to sales taxes.

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**Electronic Components at
Scientific Supply Store-211 Science Center Lab Bldg**

Store Hours
M-F 8:00-4:30

	Item	Description	P/N	cost	per
TOOLS and WIRE					
	1	9V battery clips with 5" leads	BC-9	0.25	ea
	2	9V Battery holder	BH-9	0.53	ea
	3	9V Battery	#9Volt	2.25	ea.
	4	heat shrinkable tubing (1/8" diameter)	HST	0.45	ft
	5	heat sink	HS-S	1.11	ea
	6	solder in pen-type pocket pack	SR-10A	0.65	ea
	7	UL approved soldering iron	SR-2B	8.05	ea
	8	replacement tip for soldering iron	SR-2BT	2.93	ea
	9	4-1/2" side cutters	ST-1	2.57	ea
	10	5" long nose pliers	ST-2	2.57	ea
	11	wire stripping tool	ST-3	2.57	ea
	12	solder/desolder wick	SW-3	0.75	ea
	13	oscilloscope probe, 42" long, BNC to mini-grabbers	TL-3	3.95	ea
	14	alligator to alligator test lead set, 14" long, set of 10	TL-6	0.33	ea
	15	breadboard, 830 tie points, 6-1/2"L x 2-1/9"W	WB-102	5.00	ea
	16	jumper wire kit for breadboarding, 140 pieces	WK-140	4.41	set
	17	CC Resistor Calculator	CC	1.04	ea
	18	20PINLPS 20 pin soldertail socket	20PINLPS	0.18	ea
	19	20600 Small breadboard Jameco	20600	5.37	ea
	20	400-176 Desoldering pump	400-176	5.84	ea
	21	Ex-I Integrated Circuit (IC) Puller	EX-1	1.17	ea
	22	Soldering Stand	SH-1	3.06	ea
	23	22 AWG solid hookup wire, PVC insulation - red 25'	884420	2.21	ea
	24	22 AWG solid hookup wire, PVC insulation - black 25'	884410	2.21	ea
EDUCATIONAL ELECTRONIC KITS					
	1	AM/FM radio (required for ELEC-3030)	AM/FM 108K	25.65	ea
until supply is exhausted	2	PICKit-1 FLASH microcontroller starter kit (ELEC-3040)	PICKit-1	32.30	ea
74LS SERIES TTL					
	1	74LS00 Quad 2-input NAND gate, 14-DIP	74LS00	0.45	ea
	2	74LS02 Quad 2-input NOR gate, 14-DIP	74LS02	0.45	ea
	3	74LS04 Hex inverter, 14-DIP	74LS04	0.34	ea
	4	74LS05 Hex inverter open-collector, 14-DIP	74LS05	0.25	ea
	5	74LS08 Quad 2-input gate, 14-DIP	74LS08	0.30	ea
	6	74LS10 Triple 3-input NAND gate, 14-DIP	74LS10	0.39	ea
new for fall'07	7	74LS11 Triple 3-input AND gate, 14-DIP	74LS11	0.40	ea
	8	74LS14 Hex Schmitt trigger, 14-DIP	74LS14	0.34	ea
	9	74LS20 Dual 4-input NAND gate, 14-DIP	74LS20	0.42	ea
	10	74LS27 Triple 3-input NOR gate, 14-DIP	74LS27	0.22	ea
	11	74LS32 Quad 2-input OR gate 14-DIP	74LS32	0.39	ea
	12	74LS73 Dual J-K master/slave flip flop, 14-DIP	74LS73	0.34	ea
	13	74LS74 Dual flip flop 14-DIP	74LS74	0.22	ea
	14	74LS75 Quad latch, 16-DIP	74LS75	0.34	ea
	15	74LS86 XOR Quad Gate 2 in	74LS86	0.30	ea
	16	74LS90 Decade counter, 14-DIP	74LS90	0.73	ea
	17	74LS138 3-of-8 decoder, 16-DIP	74LS138	0.47	ea
	18	74LS151 8 channel multiplexer, 16-DIP	74LS151	0.40	ea
	19	74LS153 Dual 4 line Multiplexer 16-DIP	74LS153	0.25	ea
	20	74LS161 Presettable binary counter, 16-DIP	74LS161	0.47	ea
	21	74LS163 Preset 4-bit binary counter 16-DIP	74LS163	0.45	ea
	22	74LS169 up/down binary counter, 16-DIP	74LS169	0.55	ea
	23	74LS175 hex/quad d-type flip flop with clear 16-DIP	74LS175	0.47	ea
	24	74LS240 Inverting octal buffers and line drivers w/ 3-state	74LS240	0.22	ea
	25	74LS244 Octal buffers and line drivers w/ 3-state outputs	74LS244	0.40	ea

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	26	74LS373 Octal D-type transparent latch and edge-triggered	74LS373	0.63	ea
	27	74LS540 Inverting octal buffers and line drivers w/ 3-state	75LS540	0.70	ea
	28	74LS541 Octal buffers and line drivers w/ three-state outputs	74LS541	0.34	ea
	29	74ALS573 Octal D-latch w/ 3-state outputs	74ALS573	1.13	ea
STANDARD TTL					
	1	7402 2-input NOR gates	7402	0.43	ea
	2	7404 hex inverter gates	7404	0.50	ea
	3	7412 triple 3-input NAND gates w/ open-collector outputs	7412	0.50	ea
	4	7474 D-Type Flip-Flop	7474	0.25	ea
OTHER INTEGRATED CIRCUITS					
	1	7805T Positive voltage regulator 5V 1A, TO-220	7805T	0.45	ea
	2	7812T Positive voltage regulator 12V 1A, TO-220	7812T	0.65	ea
	3	7912T Negative voltage regulator, 12V 1A, TO-220	7912T	0.55	ea
	4	ADC0804LCN Analog/digital converter, 8-bit, 20-DIP	ADC0804LCN	2.50	ea
	5	LF351N Bi-FET gen. purp. operational amplifier, 8-DIP	LF351N	0.53	ea
	6	LM2907 Frequency/Voltage converter, 14-DIP	LM2907N	1.65	ea
	7	LM317T Positive adjustable voltage regulator 1.5A, 1.2-37V	LM317T	0.46	ea
new for fall'07	8	LM335AZ Precision temperature sensor, TO-92	LM335AZ	0.99	ea
	9	LM339 Low power low offset quad voltage comparator, 14	LM339N	0.53	ea
	10	LM555N Timer 8-DIP	LM555N	0.25	ea
	11	LMC555CN Timer 8-DIP, CMOS-version (for ELEC 2020)	LMC555CN	0.99	ea
	12	LM741N Operational amplifier, 8-DIP	LM741N	0.33	ea
until supply is exhausted	13	SG3524N Regulating pulse width modulator, 16-DIP	SG3524N	1.05	ea
	14	A3953SB H-bridge for ELEC 3050	A3953SB	3.25	ea
until supply is exhausted	15	28c1601-25 IC EEPROM Jameco	28C16A-25	3.50	ea
until supply is exhausted	16	PID12F675 Microchip microcontroller 1/p/ND	PIC12F675	2.59	ea
	17	8254 or 82C54 Programmable Interval timers	8254	4.75	ea
TRANSISTORS & DIODES					
	1	1N4001 Rectifier, 50V 1A	1N4001	0.10	ea
	2	1N4148 Diode, switching, 75V 10mA	1N4148	0.05	ea
	3	1N4148/914 switching diode	1N4148/914	0.05	ea
	4	2N2222A NPN GP Ampl Sw, 40V 500mA, hFE=100, TO-18	2N2222A	0.41	ea
	5	2N2906A PNP GP Ampl Sw, 60V 500mA, hFE=40, TO-18	2N2906A	0.41	ea
	6	2N3904 NPN SSGP, 40V 200mA, hFE=100, TO-92	2N3904	0.15	ea
	7	2N3906 PNP SSGP, 40V 200mA, hFE=100, TO-92	2N3906	0.07	ea
CAPACITORS					
	1	Capacitor, radial, electrolytic, Panasonic KA-series (50V rating) .1µF		0.46	ea
	2	Capacitor, radial, electrolytic, Panasonic KA-series (50V rating) 0.22, 0.33, 0.47, 1, 2.2, 3.3, 4.7, 10 µF		0.21	ea
		(35V rating) 4.7, 22 µF		0.21	ea
		(35V rating) 10 µF		0.60	ea
		(25 V rating) 4.7 µF		0.21	ea
		(16 V rating) 33, 47 µF		0.21	ea
		(6.3 V rating) 100 µF		0.21	ea
	3	Capacitor, ceramic disc	18 values	0.08	ea
		5, 10, 22, 33, 47, 68, 100, 120, 180, 220, 270, 470 pF			
		0.001, 0.0047, 0.01, 0.022, 0.033, 0.1 µF			
RESISTORS					
	1	Resistor, 5% carbon film, 1/4W, in the following series: 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.8, 2, 2.2, 2.4, 2.7, 3, 3.3, 3.6, 3.9, 4.3, 4.7, 5.1, 5.6, 6.2, 6.8, 7.5, 8.2, 9.1 --- up to 4.7 MΩ	161 values	0.03	ea
POTENTIOMETERS					
	1	100 ohm potentiometer, single-turn, cermet, 1/2W	CRST101-P	0.69	ea
	2	1000 ohm potentiometer, single-turn, cermet, 1/2W	CRST102-P	0.69	ea

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	3	10K ohm potentiometer, single-turn, cermet, 1/2W	CRST103-P	0.69	ea
	4	100K ohm potentiometer, single-turn cermet, 1/2W	CRST104-P	0.83	ea
SWITCHES					
	1	SPST DIP switch, 8-circuit, 16-pin	SWDP8	0.99	ea
	2	SPST tact switch	SWPB-PBS103	0.29	ea
	3	SP pushbutton switch, 24V contact rating	SW401-ND	0.40	ea
OPTOELECTRONICS					
	1	Seven-segment LED display, red, common cathode, 0.5" t	FND513	0.88	ea
	2	T-1-3/4 LED mounting hardware	HLEDT13/4	0.13	ea
	2	IFD5 Infrared standard phototransistor, Lite-On LTR-3208,	IFD5	0.88	ea
		100mW, Light current=1mA@Vce=5V (matched to IFE5 emitter)			
	3	Infrared emitting diode, Lite-On LTE-5208, 940 nm, T-1-3/4	IFE5	0.88	ea
		100mW, 50mA max. continuous current, Vf=1.2V@20mA (matched to IFD5 phototransistor)			
	4	T-1-3/4 (5mm) LED green clear	LEDGCT13/4	0.20	ea
	5	T-1-3/4 (5mm) LED red Bright	LEDRUBT13/4	0.20	ea
	6	T-1-3/4 (5mm) LED yellow clear	LEDYCT13/4	0.20	ea
LEGO Stuff					
	1	Lego Motor	775225	23.34	ea
	2	Lego - 9 V connection leads		3.95	ea
	3	Lego - O-ring tires		0.30	ea.
	4	Lego - medium pulley wheels		0.30	ea.