

Engineer Your World - Engineering Applications of Computer Science Course - Course II Add-on Kit Contains:	Small Kit Quantity	Medium Kit Quantity	Large Kit Quantity
Raspberry Pi 3 Model B+	4	8	12
MakerBeam Starter Kit	1	2	3
microSD card	4	7	11
6700mAh Portable Charger External Battery Pack (5V 2A output)	2	4	6
MakerBeam brackets, 90-deg, 4-hole (12 pack)	1	2	3
Continuous rotation servomotor, SM-S4303R	2	4	6
MCP3008 I/P - 8-Channel 10-Bit Analog to Digital Converter	2	4	6
6" Jumper wires, M-F (100 pack)	1	2	3
6" Jumper wires, M-M (100 pack)	1	1	1
12" Jumper wires, M-M (10 pack)	1	2	3
220 ohm resistors (100 pack)	1	1	1
3.3K ohm resistors (100 pack)	1	1	1
4.7K ohm resistors (100 pack)	1	1	1
Light-dependent resistor, 4K-11K ohm @ 10 lux, 5.1mm (25 pack)	1	1	1
Bright White LEDs (25 pack)	1	2	3
Assorted color LEDs (20 pack)	1	2	3
Piezo speaker	2	4	6
Ultrasonic distance sensor, HC-SR04	8	16	24
Breadboard- White, 400 tie pts	5	10	15
Mini breadboard, 170 tie pts	3	6	9
Rubber bands, pack of various sizes	1	1	1
Hot glue, 4", dual temp, 24 pack	1	2	3
Fabric, stretch (nylon/cotton) 1 yd	2yd	4yd	6yd
Braided Elastic bands, black, 3/4" wide x 3 yards	1	1	1
Velcro, 2 sided, 0.75", black, sew-on 30"	2	4	6
Miniature Snap Action Switches with Long Lever - Model 30-2040	12	21	33
3/32" Heat Shrink Tubing (4 feet)	2	4	6
Altimeter	1	1	2
18 in. x 24 in. x .157 in. White Corrugated Twinwall Thick Plastic Sheets (15-Pack)	1	1	1
Loctite PL Premium 10 fl. oz. Polyurethane Construction Adhesive	1	2	3