	Quantity	Unit Price	Total Price	Vendor	Link
All semseter		·		'	
Raspberry Pi Pico	100	5.67	567	Digikey	<u>Here</u>
Plug-plug header pins (1x20)	250	0.43976	109.94	Digikey	<u>Here</u>
Breadboards	100	4.76	476	Adafruit	<u>Here</u>
Helping hands	10	5.4	54	Adafruit	<u>Here</u>
Micro USB (A to Micro B)	100	2.06	206	Digikey	<u>Here</u>
Pushbuttons packs	10	4.95	49.5	Adafruit	<u>Here</u>
USB to UART converter	100	7.96	796	Adafruit	<u>Here</u>
MM Jumper	100	1.95	195	Digikey	<u>Here</u>
MF Jumper	100	1.95	195	Digikey	<u>Here</u>
FF Jumper	100	1.95	195	Digikey	<u>Here</u>
Solder	10	11.59	115.9	Amazon	<u>Here</u>
VGA cords	50	5.49	274.5	Amazon	<u>Here</u>
VGA screen (640x480)	50	69.99	3500	Amazon	<u>Here</u>
330 Ohm resistors	3	0.1	0.3	Digikey	<u>Here</u>
Cricket chirp synchronization lab					
MCP 4822 DAC	50	3.5935	179.675	Digikey	<u>Here</u>
Audio sockets	100	0.7568	75.68	Digikey	<u>Here</u>
AUX cables	100	4.35	435	Digikey	<u>Here</u>
Speakers	50	14.99	749.5	Amazon	<u>Here</u>
Microphones	100	6.95	695	Adafruit	<u>Here</u>
Boids animation lab					
N/A (uses materials from all semester)					
Inverted pendulum reaction wheel lab					
3D printed wheel (custom 3D print, contact for STL)	50	х	х	х	<u>Here</u>
Lasercut acrylic pendulum arm	50	х	х	х	<u>Here</u>
4N35 opto iso (x2)	200	0.3532	70.64	Digikey	<u>Here</u>
Quik grip clamps 4 pack	13	31.97	415.61	Amazon	Here
330 Ohm (x2)	5	0.1	0.5	Digikey	<u>Here</u>
1 MOhm (x2)	2	0.1	0.2	Digikey	<u>Here</u>
10 kOhm (x2)	2	0.1	0.2	Digikey	Here
LM9110 H-bridge	100	1.5	150	Adafruit	Here

Geared motor	50	5.5	275	SparkFun	<u>Here</u>
MPU 6050 IMU	50	12.95	647.5	Adafruit	<u>Here</u>
0.1 uF	5	0.9	4.5	Digikey	<u>Here</u>
Qwic breakout	50	1.6	80	Sparkfun	<u>Here</u>
Brotex beams pices 500 pieces	8	39.99	319.92	Amazon	<u>Here</u>
M3 socket head screw (packs of 50)	4	13.16	52.64	McMaster	<u>Here</u>
M3 wing nuts (packs of 25)	8	9.72	77.76	McMaster	<u>Here</u>
10-32 hex nuts (packs of 100)	2	2.08	4.16	McMaster	<u>Here</u>
10-32 screws (packs of 10)	20	6.34	128.8	McMaster	<u>Here</u>
Nylon plastic washers (packs of 100)	2	4.62	9.24	McMaster	<u>Here</u>
10-32 wing nuts (packs of 100)	2	16.49	32.98	McMaster	<u>Here</u>
M2.5 screws (packs of 50)	4	7.52	30.08	McMaster	<u>Here</u>
M2.5 nuts (packs of 100)	2	3.9	7.8	McMaster	<u>Here</u>
TT wheel (packs of 2)	30	3.5	105	Sparkfun	<u>Here</u>
PID control of 1D helicopter lab					
Lasercut acrylic arm	50	x	x	x	<u>Here</u>
4N35 opto iso	200	0.3532	70.64	Digikey	<u>Here</u>
Quik grip clamps 4 pack	13	31.97	415.61	Amazon	<u>Here</u>
330 Ohm	5	0.1	0.5	Digikey	<u>Here</u>
1 MOhm	2	0.1	0.2	Digikey	<u>Here</u>
10 kOhm	2	0.1	0.2	Digikey	<u>Here</u>
0.1 uF	5	0.9	4.5	Digikey	<u>Here</u>
MPU 6050 IMU	50	12.95	647.5	Adafruit	<u>Here</u>
Qwic breakout	50	1.6	80	Sparkfun	<u>Here</u>
M2.5 screws (packs of 50)	4	7.52	30.08	McMaster	<u>Here</u>
M2.5 nuts (packs of 100)	2	3.9	7.8	McMaster	<u>Here</u>
No. 4 wood screw	2	4.86	9.72	McMaster	<u>Here</u>
Mortise-Mount Hinge	1	1.8	1.8	McMaster	<u>Here</u>
4-40 socket head screw	2	11.22	22.44	McMaster	<u>Here</u>
4-40 hex nut	2	1.05	2.1	McMaster	<u>Here</u>
Split lock washer	2	3.17	6.34	McMaster	<u>Here</u>
Ducted fan	50	8.8	440	AliExpress	<u>Here</u>
Birdsong synthesizer lab					

MCP 4822 DAC	50	3.5935	179.675	Digikey	<u>Here</u>
Audio sockets	100	0.7568	75.68	Digikey	<u>Here</u>
AUX cables	100	4.35	435	Digikey	<u>Here</u>
Speakers	50	14.99	749.5	Amazon	<u>Here</u>
3x4 phone-style matrix keypad	50	8.5	425	Adafruit	<u>Here</u>
330 Ohm resistors	4	0.1	0.4	Digikey	<u>Here</u>