

Course/Capstone/eProject/FURI Purchase Request

Name of Class or Project: EGR 314

Vendor (one vendor per form): Digi-key

Date	Faculty/PI Contact	Email	eProject?	Capstone Project?	Course Project?	eProject Industry Sponsor (if applicable)
5/2/25	Jordan / Kelley / Nichol	Brendan Keeter bkeet@asu.edu	Yes / No	Yes / No	Yes / No	n/a

A purchasing card is available to check out for local purchases or you may come to Sutton 101 and order your supplies, using this purchasing card.

Qty	Item # or Quote #	Direct Website Link to Product	General Description of Item	Business Purpose/Benefit for the Purchase	Unit Price	Line Total
6	12345ABCDE	www.thisistheplace.com/12345ABCDE (SAMPLE: PLEASE START ON NEXT LINE)	safety goggles	protect student/instructor eyes while working on project; benefit to the University of reducing number of accidents in the lab	\$ 3.490	\$ 20.94
15	36-5018DKR-ND	https://www.digikey.com/en/products/detail/keystone-electronics/36-5018DKR-ND	Test Points	Used to debug	\$ 0.42	\$ 6.30
10	GRJ31CR61E106	https://www.digikey.com/en/products/detail/murata-electronics/GRJ31CR61E106	10 uF capacitor	Eliminate noise going through to voltage regulator Vin	\$ 0.410	\$ 4.10
5	RC1206FR-0728K	https://www.digikey.com/en/products/detail/yageo/RC1206FR-0728K	28k Ohm resistor	Connect to Pin 3 of Voltage Regulator to ground	\$ 0.100	\$ 0.50
3	732-11376-ND	https://www.digikey.com/en/products/detail/w-rth-elektronik/732-11376-ND	Fuse Holder	Allow for easy placement and change of fuses	\$ 0.610	\$ 1.83
5	F2389-ND	https://www.digikey.com/en/products/detail/littelfuse-inc/F2389-ND	500 mA fuse	Allow for protection of systems that power enters through	\$ 0.380	\$ 1.90
1	732-5934-ND	https://www.digikey.com/en/products/detail/w-rth-elektronik/732-5934-ND	Barrel Jack	Allows for power to enter system	\$ 0.920	\$ 0.92
5	KGM21NR71H103KT	https://www.digikey.com/en/products/detail/kyocera-avx/KGM21NR71H103KT	10000 pF capacitor	Needed to get voltage regulator signal correct	\$ 0.100	\$ 0.50
5	RC1206FR-1047KL	https://www.digikey.com/en/products/detail/yageo/RC1206FR-1047KL	47K resistor	Clean up Voltage regulator signal	\$ 0.100	\$ 0.50
3	490-18463-2-ND	https://www.digikey.com/en/products/detail/murata-electronics/490-18463-2-ND	15 uH inductor	Protects against spikes and surges going into subsystem	\$ 0.220	\$ 0.66
3	C3216C0G2J222J115AA	https://www.digikey.com/en/products/detail/tdk-corporation/C3216C0G2J222J115AA	2200 pF Capacitor	Clean up voltage regulator signal	\$ 0.330	\$ 0.99
10	311-10KJRDKR-ND	https://www.digikey.com/en/products/detail/yageo/RC0402-311-10KJRDKR-ND	10 k ohm resistor	Acts as pull up resistor	\$ 0.025	\$ 0.25
5	B240-13-F	https://www.digikey.com/en/products/detail/diodes-incorporated/B240-13-F	DIODE SCHOTTKY 40V 2A SMB	Facilitate current from Voltage Regulator	\$ 0.320	\$ 1.60
10	KGM21NR71H104KT	https://www.digikey.com/en/products/detail/kyocera-avx/KGM21NR71H104KT	CAP CER 0.1UF 50V X7R 0805	Filter out noise in system	\$ 0.026	\$ 0.26
5	C3216X7S0J336M160AC	https://www.digikey.com/en/products/detail/tdk-corporation/C3216X7S0J336M160AC	CAP CER 33UF 6.3V X7S 1206	Managed voltage coming from voltage regulator	\$ 0.870	\$ 4.35
5	HRG3216P-68R0-D-T1	https://www.digikey.com/en/products/detail/susumu/HRG3216P-68R0-D-T1	RES SMD 68 OHM 0.5% 1W 1206	Pull up resistor for LED	\$ 0.600	\$ 3.00
10	CL21B105KBFNNNE	https://www.digikey.com/en/products/detail/samsung-electronics/CL21B105KBFNNNE	CAP CER 1UF 50V X7R 0805	Reduce noise in system	\$ 0.030	\$ 0.30
5	S1M	https://www.digikey.com/en/products/detail/smc-diode-solutions/S1M	DIODE STANDARD 1000V 1A DO214AC	Facilitate current from USB	\$ 0.130	\$ 0.65
2	296-34972-6-ND	https://www.digikey.com/en/products/detail/texas-instruments/296-34972-6-ND	Texas Instruments IC REG BUCK 3.3V 1.7A 8SOIC	Takes the input voltage and brings it to 3.3V to ensure the subsystem doesn't receive too much voltage	\$ 1.680	\$ 3.36
10	LSM0805452V	https://www.digikey.com/en/products/detail/visual-communica/LSM0805452V	LED GREEN CLEAR 0805 SMD	Visible RGB LED to work alongside ESP32	\$ 0.260	\$ 2.60
2	1965-ESP32-S3-WROOM	https://www.digikey.com/en/products/detail/espressif-systems/1965-ESP32-S3-WROOM	ESP32-S3-WROOM-1-N4	Wifi and bluetooth communication	\$ 5.060	\$ 10.12
3	NPTC081KFXC-RC	https://www.digikey.com/en/products/detail/sullins-connectivity/NPTC081KFXC-RC	8 pin Header pins	Allow for up and downstream communication input	\$ 1.080	\$ 3.24
2	PH1-13-UA	https://www.digikey.com/en/products/detail/adam-tech/PH1-13-UA	Connector Headers	Allow jumper wires	\$ 0.170	\$ 0.34
5	B3U-1000P	https://www.digikey.com/en/products/detail/omron-electronics/B3U-1000P	Surface Mount Button	Allow for Debugging	\$ 1.000	\$ 5.00
					Sub-Total	\$ 53.27
					Tax	
					Shipping	
					Grand Total	\$ 53.27

Chair or PI Approval:

Date:

Business Purpose/Public Benefit: (Click on yellow line. Next, select an option on the drop-down arrow on the right of the box)

Lab / Classroom / Medical Supplies

Medical Lab Supplies Accessories & Supplies:

Business Purpose: materials purchased to stock and run the departmental labs and classrooms, used by students and departmental employees. Also for student ordering for projects and to assist with Research Projects.

Public Benefit: Supplies are used in day-to-day lab operations. ASU benefits from this expense as the supplies purchased allow departmental lab employees and students to perform general lab duties, projects and class activities and to assist with Research Projects.

Accounts: State, Local (Sponsored and Foundation only if authorized)

Student: Forward completed form to Instructor/Project Mentor for approval

Mentor/Faculty: Forward form with email indicating your approval to PolyBizz@asu.edu for processing

1. A purchasing card is available to check out for local purchases. 2. You may come to Sutton 101 and place your order online.

SECTION BELOW IS FOR OFFICE USE ONLY

ORDER PLACED BY / DATE:

B.O. NOTIFIED BY / DATE:

ORDER RECEIVED BY / DATE:

STUDENT / INSTRUCTOR NOTIFIED BY / DATE:

COST CENTER + PROGRAM/GIFT TO CHARGE: