

| Item | Purpose | Link/URL | Cost (\$CAD) (Tax and Shipping INC) | Status | Comments from Students | Comments from TA/PM | Alternatives |
|-----------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Arduino Uno | For testing and verifying the temperature collection process. | https://makerstore.ca/shop/ols/products/arduino-uno-r3 | 17 | Approved | We already have one | | |
| DHT11 Sensor | Temperature and humidity sensing | https://www.adafruit.com/product/386 | 6.26 | Canceled | | | |
| DHT22 Sensor | Temperature and humidity sensing | https://www.adafruit.com/product/385 | 2x 12.46 | Pending | | Client wants a module that give 2 readings per second | |
| Male to Female wire | For connecting the arduino and sensors | https://makerstore.ca/shop/ols/products/jumper-cables-per-10 | 1 | Approved | | | |
| | | https://www.amazon.ca/Elegoo-120pcs-Multicolored-Breadboard-arduino/dp/B01EV70C78/ref=sr_1_1_sspa?dchild=1&keywords=arduino+wires&qid=1614217366&sr=8-1-spons&psc=1&spLa=ZW5icnlwdGVkUXVhbGlnaWVyPUEzMkRORVIENEIETThFJmVuY3J5cHRIZEIkPU EwNzg0NTQyMTILWUMwSUywTEZMUiZlbn NyeXB0ZWRBZEIkPUEwMTE2Njk4MlpBU01 XMjdaT041UyZ3aWRnZXROYW1IPXNwX2F0 ZiZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05 vdExvZ0NsaWNrPXRydWU= | 14 | Approved | | From makerstore | |
| Breadboard | For testing and verifying the temperature collection process. | https://www.ebay.ca/itm/Solderless-Bread-Board-830-400-270-170-25-Contacts-Power-Supply-CanHobby-Kit/113610874921?hash=item1a73bc6029:g:~ssAAOSwuCdbl~3O | 3.5 | Approved | We already have one | | |
| Rubber Sheet | For flapped through hole, weather proofing and fixing the sensor wire in place | https://www.amazon.ca/Styrene-Butadiene-Rubber-Backing-Thickness/dp/B00L8NRV2S/ref=sr_1_5?dchild=1&keywords=rubber+flap&qid=1614357623&sr=8-5 | 10 | Approved | | Sure... there is 4x36" of rubber, and you only need a small segment of this material. It is approved so you can buy it if you want but we recommend checking out home department stores so you can save on budget and not keep around so much rubber after the project. | |
| Cardboard/Styrofoam Box | Used for Testing and Demos | : | - | Approved | Hopefully this can be scavenged from household | Look into 3d printing. | |
| MLX90614ESF Non-contact Infrared Temperature Sensor | Used for Sensing Surface Temp | https://www.amazon.com/gp/product/B071VF2RWM/ref=ox_sc_act_title_1?smid=A30QSGOJR8LMSXA&psc=1 | - | Pending | | | |
| | | Total (\$) | 51.76 | | Notes | 1) Have another arduino for demo. purposes... will simulate communication to the RPi 2) Missing: 9V battery+components that support the power system. | |