Each student is required to purchase the following hardware kit for labs and assignments. Students will work individually on projects using their own kits. Also, students are free to explore and build Arduino projects on their own. Students who do not buy the required kit will be deprived of an important learning experience, as well as lab and assignment points on associated work.

The official hardware kit for CS 1410 Sections 030 and 040 is:

**Adafruit ARDX – v1.3 Experimentation Kit for Arduino (Uno)**
Available at [http://www.adafruit.com/products/170](http://www.adafruit.com/products/170) for $85 + shipping (about $10)

Important parts included in the Adafruit ADRX kit:
- Arduino Uno board with a half-size breadboard
- Jumper wires (at least 40)
- USB cable
- 5mm LEDs of one color (at least 10)
- 5mm LEDs of another color (at least 10)
- Toy DC motor
- Mini servo motor
- 8-Bit shift register, 74HC595
- Piezo element
- Pushbuttons (at least 2)
- Potentiometer, 10k
- Photo resistor
- Temperature sensor, TMP36
- Resistors: 560 Ohm (at least 20), 2.2k Ohm (at least 3), 10k Ohm (at least 3)

*Each student should order his/her kit right away.*

Please note that there are similar ARDX kits for sale from other vendors, and possibly at lower costs, but they do not have parts identical to the Adafruit kit. If you decide to buy a kit from another vendor, it is your responsibility to make certain that it contains at least the same parts as listed above. Also, if you already have an Arduino, be sure to buy any parts from the list above that you may be missing.

For any students on scholarships who need to be reimbursed for the purchase of their kit, bring a printed copy of this requirements sheet to the instructor to be signed.