

# Lista materiali

Stima per 20 studenti, in caso dividere quantita' proposte. Componenti in alternativa a kit completi: -

<http://www.banggood.com/Basic-Starter-Learning-Kit-UNO-For-Arduino-Basics-p-934217.html> -

<http://www.banggood.com/Arduino-Compatible-UNO-R3-Starter-Kit-Set-Upgraded-Version-With-RFID-p-908543.html>

# Arduino Board

Si era parlato di una scheda Uno "standard": non SMD e con cavo USB: 5.91e

- [Numero di studenti +20%] x  
<http://www.banggood.com/Wholesale-Arduino-Compatible-R3-UNO-ATmega16U2-AVR-USB-Board-p-68537.html>  
Eventualmente un paio di nano:  
<http://www.banggood.com/5Pcs-ATmega328P-Arduino-Compatible-Nano-V3-Improved-Version-With-USB-p-951782.htm>

## **Nota**

potrebbero far comodo un po' di mini breadboard per le nano:  
<http://www.banggood.com/5Pcs-Blue-170-Holes-Mini-Solderless-Prototype-Breadboard-For-Arduino-p-950717.html>

## Basic:

[http://www.banggood.com/Wholesale-New-Best-selling-2500-PCS-50-values-1-or-4W-0\\_25W-1-pencent-Metal-Film-Resistor-Kit-p-4042](http://www.banggood.com/Wholesale-New-Best-selling-2500-PCS-50-values-1-or-4W-0_25W-1-pencent-Metal-Film-Resistor-Kit-p-4042)

- x2

<http://www.banggood.com/500Pcs-3MM-LED-Diode-Kit-Mixed-Color-Red-Green-Yellow-Blue-White-p-960644.html>

- <http://www.banggood.com/20Pcs-RGB-LED-Diode-8mm-RedGreenBlue-4-Pin-Light-Emitting-Diode-p-962534.html>

- x2

<http://www.banggood.com/100pcs-Mini-Micro-Momentary-Tactile-Tact-Switch-Push-Button-DIP-P4-p-917570.html>

## **Sensors:**

- <http://www.banggood.com/10-Pcs-NTC-Thermistor-Temperature-Sensor-10K-OHM-MF52-103-3435-1-p-932790.html>
- <http://www.banggood.com/20pcs-5mm-GL5549-Photo-Light-Sensitive-Resistor-CDS-Photoresistor-p-911331.html>

## **Infrared:**

Questi non sono sicuri, cercare se c'e' una coppia gia' pronta o qualcosa di piu' semplice. L'idea e' di avere qualcosa di semplice per fare una connessione tipo seriale 1->1 .

- <http://www.banggood.com/10Pcs-KY-022-Infrared-IR-Transmitter-Sensor-Module-For-Arduino-p-954587.html>
  - <http://www.banggood.com/KY-022-Infrared-IR-Sensor-Receiver-Module-For-Arduino-p-916178.html>

## Wireless:

- 2x (anche uno solo: un rx / tx per studente)  
<http://www.banggood.com/10Pcs-433Mhz-RF-Transmitter-With-Receiver-Kit-For-Arduino-MCU-Wireless-p-951029.html>

# Breadboard

- <http://www.banggood.com/120pcs-20cm-Color-Breadboard-Jumper-Cable-Wire-Combination-For-Arduino-p-944970.html>
  - 2x  
[http://www.banggood.com/10Pcs-8\\_5-x-5\\_5cm-White-400-Holes-Solderless-Breadboard-For-Arduino-p-951142.html](http://www.banggood.com/10Pcs-8_5-x-5_5cm-White-400-Holes-Solderless-Breadboard-For-Arduino-p-951142.html)
- <http://www.banggood.com/400Pcs-6cm-Breadboard-Jumper-Cable-Electronic-Wires-Black-Red-Colour-p-949895.html>
  - 2x  
[http://www.banggood.com/40-x-10cm-Male-To-Female-Dupont-Jumper-Wires-Calbe-2\\_54mm-p-89707.html](http://www.banggood.com/40-x-10cm-Male-To-Female-Dupont-Jumper-Wires-Calbe-2_54mm-p-89707.html)

## Utili:

- [http://www.banggood.com/100-Pcs-2\\_54mm-Dupont-Jumper-Wire-Cable-Male-Pin-Connector-Terminal-p-918553.html](http://www.banggood.com/100-Pcs-2_54mm-Dupont-Jumper-Wire-Cable-Male-Pin-Connector-Terminal-p-918553.html)

## Vari:

- diodi:  
<http://www.banggood.com/10-Pcs-NTC-Thermistor-Temperature-Sensor-10K-OHM-MF52-103-3435-1-p-932790.html>
- Transistor  
<http://www.banggood.com/100Pcs-MOTON-3Pin-2N2222A-2N2222-Transistor-40V-300MHz-600mA-p-943227.html>
- 2x  
<http://www.banggood.com/10Pcs-5V-Electromagnetic-Active-Buzzer-Continuous-Beep-Continuously-p-943524.html>
- Capacitator:  
<http://www.banggood.com/1000pcs-50V-1pF-To-100nF-50-Value-Ceramic-Capacitor-Assorted-Set-Kit-p-922776.html>
- Trimmer (potenziometri)  
<http://www.banggood.com/20Pcs-6mm-10K-OHM-Trimpot-Trimmer-Pot-Variable-Resistor-Horizontal-p-953377.html>
- Shifter (non saprei se usarlo, pero' costa poco...)  
<http://www.banggood.com/25Pcs-SN74HC595N-74HC595-74HC595N-HC595-DIP-16-8-Bit-Shift-Register-IC-p-917428.html>

## Costosi ma d'effetto:

- <http://www.banggood.com/5Pcs-Infrared-IR-Receiver-Module-Wireless-Control-Kit-For-Arduino-p-953342.html>

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## TODO

- Cercare potenziometri
- Vedere se servono altri transistor
- Trovare cavi USB di scorta