

# **Circuit Basics**

Lecture 3

Engineering World Health

# Ohm's Law

$$\text{Voltage} = \text{Current} \times \text{Resistance}$$

- Units of voltage are volts (V), where  $1 \text{ V} = 1 \text{ J/C}$ .
- Units of current are amperes (A), where  $1 \text{ A} = 1 \text{ C/s}$ .
- Units of resistance are ohms ( $\Omega$ ).