

## Tutorial 2, Sep 19, 2022

- First law:  $w + Q = \Delta U$
- $w = - \int_{V_1}^{V_2} p \, dV$
- We can also use  $\Delta U = \int_{T_1}^{T_2} c_V \, dT$  where  $c_V$  is the constant volume heat capacity