November 19, 2021
MSE 2101 topics

• Carbon intake
  ◦ source of carbon
  ◦ source of energy
  ◦ photo/chemo-auto/hetero-throphs

• ATP → ADP → ATP → ADP → …

• The three domains of life
  ◦ archea
  ◦ bacteria
  ◦ eukarya

• Extremophiles
  ◦ the possibility of panspermia – interplanetary sneezing?

• The role of mitochondria and chloroplasts
  ◦ the DNA of mitochondria and chloroplasts

• Think ahead: what does it mean that mitochondrial and cellular DNA are fundamentally different?