November 19, 2021 MSE 2101 topics

- Carbon intake
 - source of carbon
 - source of energy
 - o photo/chemo-auto/hetero-throphs
- ATP \rightarrow ADP \rightarrow ATP \rightarrow ADP \rightarrow ...
- The three domains of life
 - o archea
 - o bacteria
 - o 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?