

November 10, 2023  
MSE 2101 topics

- Non-carbon based life?
- Cells: the fundamental units of life
- Aminoacids
  - amino group ( $-H_2N$ ) and carboxyl group ( $-COOH$ )
- Chirality (handedness)
- The legos of life
  - carbohydrates
  - lipids
  - proteins
  - nucleic acids
- Metabolism – chemical reactions that power life
- The role of water in metabolism
  - why is water *the* liquid for life?