

October 23, 2015
AST 1078 topics

- Natural selection: timescales and molecular basis
- Chemical bonds – single, double, triple
- Carbon-based? What do you mean carbon-based?
- Non-carbon based life?
- Aminoacids
 - amino group ($-H_2N$) and carboxyl group ($-COOH$)
- Chirality (handedness)
- The legos of life
 - carbohydrates
 - lipids
 - proteins
 - nucleic acids
- Classification by appearance
 - *flora, fauna*
 - *flora, fauna, protista, monera, fungi*
 - *prokaryotes, eukaryotes*
- The Tree of Life: archea, bacteria, eukarya
 - we are closer to slime molds than bacteria are to each other!
 - true diversity revealed