Review Topics: Chapter 8

CHEM 30A

Chapter 8:

- Types of mixtures
  - True solutions versus colloids and suspensions
    - solutions
    - colloidal dispersions (colloids)
      - Tyndall Effect
    - suspensions
    - differentiating between these types of mixtures

- Solutions
  - Electrolytes
    - strong electrolytes
    - weak electrolytes
    - non-electrolytes
  - Solubility
    - like dissolves like (IMFs)
    - effects of temperature and partial pressure
  - Saturated, unsaturated and supersaturated solutions
  - Solute-solvent interactions
  - Concentration
    - % (m/V)
    - % (V/V)
    - % (m/m)
    - ppm
    - molarity
    - molality
  - Dilution
    - dilution equation
  - Colligative Properties
    - VP, BP, FP, OP
    - BP elevation and FP depression calculations
      - van’t Hoff factor
    - Osmosis
      - semipermeable membrane
      - hypertonic, isotonic, and hypotonic solutions
      - effects on cells

Manage your time wisely as you study. Cover all the basic concepts before delving too deeply into any one topic. If you have a specific question, you can e-mail me at albi.romero@cabrillo.edu. I will reply to e-mails several times the night before an exam. Continue to study other topics while you wait for a response.