**Lab Exercises for CHM201**

**Melting Point** – use in identification and determination of purity

**Extraction** - separation technique based on differences in solubility – Caffeine from teabags

**Crystallization** – purification technique based on solubility vs. temperature – Sulfanilamide

**Steam distillation** – separation technique for labile compounds – Eugenol from cloves

**Simple distillation** - separation technique for two organic liquids based on boiling point

**Fractional distillation** – separation technique for two liquids with closer boiling points

**Fractional distillation of mixtures that form an azeotrope** – Bio-diesel from Corn

**Chromatography (column and TLC)** – separation techniques based on differences in adsorption - Pigments in spinach (relate to GC and HPLC)