

Chem 431 Chapter 27 Study Questions (Pages to read: 789-806)

- What are the principal components of a GC system?
- What are the most common carrier gases?
- What's the difference between split, splitless, and on-column injections?
- How do each of the following GC detectors work? FID, TCD, ECD, MS
- What's the difference between WCOT, PLOT, and SCOT columns?
- How would you describe a FSWC column?
- What is silanization and why is it used?
- How would you describe the stationary phases used in GC and how are they classified?
- What are the most widely used stationary phases in GC and what are the typical thicknesses of the stationary phase coatings?
- What do we mean by bonded and cross-linked stationary phases?
- What do we mean by temperature programming and pressure programming, and why do we use these techniques?

Chapter-end problems: none