

**Chem 431 Chapter 23 Study Questions** (Pages to read: 659-665, 671-683)

- What components make up a typical instrument for potentiometric measurements?
- What are the characteristics of an ideal reference electrode?
- Describe the calomel and silver-silver chloride reference electrodes.
- What is an electrode of the first kind? Of the second kind?
- What is the principle behind a membrane electrode?
- What is the mechanism of an ISFET Ion-selective electrode?
- How does a gas-sensing membrane work?
- How can an enzyme electrode be used to determine urea levels?

Chapter-end problems: 1,13,15,17,20,21,22