

## Chem 431 Chapter 22 Study Questions (Pages to read: 628-653)

- What advantages does electrochemistry have over other instrumental methods?
- What's the difference between galvanic and electrolytic cells?
- How do we construct a galvanic cell?
- What is the electrical double layer and what does the model look like that we use to describe it?
- What's the difference between faradaic and non-faradaic currents?
- What are the various ways that mass transfer can occur in an electrochemical cell?
- How do we use a shorthand notation to describe an electrochemical cell?
- What is the Nernst equation?
- How do we measure and calculate electrode potentials?
- What is a junction potential?
- What is a formal potential?
- How do IR drop and polarization effects affect the cell potential?

Chapter-end problems: 2, 4, 5, 7, 9, 10, 11, 13, 14, 15, 17