

# Lecture 1 - Coulomb's Law

## Chapter 25 - Tuesday January 9th

- Introduction and overview of the course
  - Discussion of syllabus and policies
  - Overview of the course web page
- Electrostatics
- Charge and charging
  - Conductors and insulators
- Coulomb's Law
  - Scalar and vector notation
  - Discrete charge distributions (superposition principle)
  - Continuous charge distributions

Reading: pages 567 thru 580 (chapter 25) in HRK

Read and understand the sample problems

WebAssign assignment: set 1, due Thu. 18th at 11:59pm

There is also a practice assignment (not counted in grade)

**Graded problem: Ch. 25 - Prob. 10**

Practice problems: Ch. 25 - Ex. 1, 9, 19; Prob. 3 & 11

# The PHY2061 Course Web Site

<http://www.phys.ufl.edu/~hill/teaching/2005/2061/index.htm>

- All information is posted here
  - Syllabus, homework and exam policies, etc..
  - Links to on-line homework pages (incl. deadlines)
  - Course schedule with exam dates
  - Solutions to exams (and practice questions)
- **DON'T FORGET TO DO THE DAILY HOMEWORK!!**
- No excuse for not getting close to 100% for the weekly (WebAssign) homework sets
- **YOU NEED TO PURCHASE REMOTES FOR THE IN-CLASS QUIZZES (CONSULT THE COURSE WEB PAGE)**

# About the text book

- Many useful exercises and problems at ends of chapters
  - Multiple choice questions (may be used for JiTT/HiTT)
  - Conceptual questions (ask me if you do not understand)
  - Exercises are similar to the example problems in main text
  - Problems require thinking outside of the box
- All odd numbered Exercises and Problems have the numerical answers at the back of the text book
- I will assign a few of these problems as optional work, and I will post solutions after the corresponding WebAssign deadlines
- Take some time to study the appendices at the end of the book. In particular, you will find integrals and other useful trigonometric identities.