**Week 4: Reading & Homework Assignment # 4**

**Lecturer:** Prof. Steven Errede  [serrede@illinois.edu](mailto:serrede@illinois.edu)
Office: 435 Loomis (4th floor, SW corner)
Office Phone: 333-0074.  HEP Sec’ys:  441 Loomis (333-4452)
Office Hours: Anytime (by appt. preferred…)

**Lab TAs:** Matt Ziemann  [mrziema2@illinois.edu](mailto:mrziema2@illinois.edu)
Office Hours: Wednesdays,  10:00-11:00 am  6105 Eng. Sci. Bldg. (or by appt.)
John Whitman  [jwhitma2@illinois.edu](mailto:jwhitma2@illinois.edu)
Office Hours: Mondays,  12 noon-1:00 pm  6105 Eng. Sci. Bldg. (or by appt.)

**Course Textbook(s):** Physics 406 Lecture Notes (posted on P406 website – see below)

**Course Website:**
- [http://courses.physics.illinois.edu/phys406/](http://courses.physics.illinois.edu/phys406/)
- [http://courses.physics.illinois.edu/phys193/](http://courses.physics.illinois.edu/phys193/)

All lecture notes, lab handouts, additional references, previous student final project reports (and much more) are available on the P406 (and P193) website(s). Please check these out!

**Course Organization:**

**A. Lectures:** Tuesdays & Thursdays, 12:30-1:50 pm, in the POM Lab (6105 ESB).
We will also have various demos using equipment in the POM Lab (6105 ESB).

**B. Friday Labs:** Lab1 @ 11:00 am -1:50 pm, Lab2 @ 2:00-4:50 pm in the POM Lab (6105 ESB)

First part of the semester will consist of doing various simple/short experiments using equipment and/or software in the lab. Will discuss this in the 1st lab session(s) this coming Friday. Second part of semester, labs will be focused on student project(s) – more on this below.

**C. Weekly Reading and Homework Assignments:** HW due following week on Thursday, in class.

**D. Take-Home Midterm Exam:** Tuesday, March 8, 2016, **Due:** Thursday, March 17, 2016

**E. Midterm Project Oral Presentations:** Brief! In class – Tues & Thurs,  March 8 & 10, 2016

**F. Final Project Oral Presentations:** Brief! In class – Thurs, April 28 & Tues, May 3, 2016

**G. Take-Home Final Exam:** Tuesday, April 26, 2016, **Due:** Friday,  May  6, 2016

**H. Final Project Written Report:** **Due:** Friday,  May 13, 2016

**Reading Assignment For Week 4:** Please read Physics 406 Lect. Notes V- VIII, the Consonance/Dissonance Lect. Notes and also read Science of Sound (SoS), Ch. 6 & 7.

**Homework Assignment For Week 4:**
- SoS Ch. 6: Exercises 1, 2, 3, 5, 6
- SoS Ch. 7: Exercises 1, 2, 3, 4, 8

**Final grade based on:**
- $\Sigma$HW’s: 20%
- MT:  15%
- FE:  30%
- FP:  35% (= $\Sigma$ mid-term & final oral presentations, final written report).