**Week 1: Orientation, Reading & Homework Assignment # 1**

**Lecturer:** Prof. Steven Errede  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  
Office Hours: Mondays, 10-11 am  6105 Eng. Sci. Bldg. (or by appt.)

Andrew Ferrante  aferran2@illinois.edu  
Office Hours: Tuesdays, 2-3 pm  6105 Eng. Sci. Bldg. (or by appt.)

**Course Textbook(s):**  Physics 406 Lecture Notes (posted on P406 website – see below)  
**Another good book:**  “The Acoustical Foundations of Music” 2nd Ed., John Backus, Norton

**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 7, 2017,  **Due:**  Thursday, March 16, 2017

**E. Midterm Project Oral Presentations:**  Brief! In class – Tues & Thurs, March 7 & 9, 2017

**F. Final Project Oral Presentations:**  Brief! In class – Thurs, April 27 & Tues, May 2, 2017

**G. Take-Home Final Exam:**  Tuesday, April 25, 2017,  **Due:**  Friday, May 5, 2017

**H. Final Project Written Report:**  **Due:**  Friday, May 12, 2017

**Reading Assignment For Week 1:**  Please read Physics 406 Lect. Notes 1-3, & 3 Part 2,  
and also Science of Sound (SoS), Ch’s 1 & 2.

**Homework Assignment For Week 1:**  SoS Ch. 1: Exercises 3, 5, 6, 7, 10, 12  
Ch. 2: Exercises 1, 3, 4

**Final grade based on:**

- $Σ$HW’s: 20%
- MT: 15%
- FE: 30%
- FP: 35% (= $Σ$ mid-term & final oral presentations, final written report).