

Week 4: Reading & Homework Assignment # 4

Lecturer: Prof. Steven Errede serrede@illinois.edu

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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.)

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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)

“The Science of Sound”, 3rd Ed. Rossing, Moore & Wheeler, Addison-Wesley

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/phys193/> ←

Freshman “Discovery” POM Course (less technical)

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

*i.e. 9
days
later*

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:

ΣHW's: 20%

MT: 15%

FE: 30%

FP: 35% (= Σ mid-term & final oral presentations, final written report).