

Week 11: Reading and Homework Assignments

Lecturer: Prof. Steven Errede

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Office Hours: Anytime

Lab TA's: Ben Juday bdjuday@yahoo.com and Alan Carter alancarter@gmail.com

Course Textbook: "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://online.physics.uiuc.edu/courses/phys498pom/>
<http://online.physics.uiuc.edu/courses/phys199pom/>

Freshman "Discovery"
POM Course
(less technical)

All lecture notes, lab handouts, previous student final project reports and much more available on the P498POM (and P199POM) website(s). Please spend some time checking them out!

Course Organization:

A. Lectures: Tuesday & Thursday, 1:00-2:20 pm, in the POM Lab (6105 ESB).

Will also have various demos using equipment in the POM Lab (6105 ESB).

B. Friday Labs: PM1 @ 11:00 am -1:50 pm, PM2 @ 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 more 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 Thursday, in class.

D. Take-Home Midterm Exam: Tuesday, March 10, 2009, **Due:** Thursday, March 19, 2009

E. Midterm Project Oral Presentation: 1-3pm Thursday, March 12, 2009

F. Take-Home Final Exam: Tuesday, May 5, 2009, **Due:** Thursday, May 14, 2009

G. Final Project Oral Presentation: 1-3pm Thursday, April 30, 2009

H. Final Project Report: **Due:** Thursday, May 14, 2009

Reading Assignment For Week 11: Please Read P498POM Lect. Notes 11 and 11 Part 2

Homework Assignment For Week 11: As you do this week's reading assignment: See Below.....

Final grade based on:

Σ HW's: 20%

MT: 15%

FE: 30%

FP: 35% (includes mid-term and final oral presentations).

Homework Assignment For Week 11:

As you do this week's reading assignment, have a pad of paper & pencil with you and:

- 1.) Work through the entire derivation of the example of the 1-D monochromatic traveling plane wave propagating in "free" air given in P498POM Lect. Notes 11 Part 2, p. 19-22.