

## Week 4: Reading and Homework Assignments

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**Lab TA's:** Ben Juday [bdjuday@yahoo.com](mailto:bdjuday@yahoo.com) and Alan Carter [alancarter@gmail.com](mailto:alancarter@gmail.com)

**Course Textbook:** "The Science of Sound", 3<sup>rd</sup> Ed. Rossing, Moore & Wheeler, Addison-Wesley

**Another good book:** "The Acoustical Foundations of Music" 2<sup>nd</sup> 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 1<sup>st</sup> 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**

**E. Take-Home Final Exam**

**F. Midterm Project Oral Presentation** – Choose a POM-related project(s) of your own interest!

**G. Final Project Oral Presentation** Check out P498POM/P199POM websites for past projects!

**H. Final Project Report**

**Reading Assignment For Week 4:** Please Read Ch's 6 & 7 Science of Sound

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

Ch. 7: Exercises 1, 2, 3, 4, 8

### **Final grade based on:**

$\Sigma$ HW's: 20%

MT: 15%

FE: 30%

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