PHYSICS 0082
Science of Musical Sounds

Fall, 2013 General Information and Schedule

Instructor: Professor Paul F. Shepard
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Course website: http://www.paulfshepard.org

The Science of Sound, 3rd ed., Rossing, Moore, and Wheeler

Office Hours: Tuesday and Thursday from 1:30 – 3:30 pm. I am available to meet with students at other times as well. Please email me to arrange a time as I can be hard to find.

Homework Assignments: Homework will generally be assigned on Tuesdays and will be due in lecture on the following Tuesday, although I may make assignments at alternate times. Solutions will be available on the website and your work will be at least partially evaluated. For example, I expect to choose some homework problems and grade them as short quizzes.

Exams and Grading: There will be three one-hour exams and a two-hour final exam. Your lowest one-hour exam grade will not be counted and the remaining two exams will count 50% of your grade. You are expected to take all three one-hour exams unless excused by the instructor. The final exam will count 40% with 10% of your grade based on your performance on homework assignments and quizzes.

Course Schedule:
Unit Ia – Basic math skills, waves and SHM, sound waves, simple tones, complex tones, linear superposition, pitch, two pure tones, and fundamental tracking. Aug. 27 – Sept. 12.
Sept. 19 – Homework returned and unit review.
Exam I Tues., Sept. 24
Unit Ib – Perception of sound, loudness, the ear, the brain, and fundamental tracking revisited. Sept. 17 – Oct. 3
Exam II Tues., Oct. 29
Unit IV – Acoustical principles and concert halls. Nov. 12 – Nov. 14. Nov. 21 –
Homework returned and review.

**Exam III**  
Tues., Nov. 26

Unit V – Catch up and review  Nov. 19 – Dec. 5.

**Final Exam**  
Sat., Dec. 14, 8:00 – 9:50 am. This date is set by the registrar and can't be changed!