Physics 193 POM - Fall Semester, 2014
Physics of Music/Musical Instruments
Freshman Discovery Course

Physics 193 POM Personnel:
• Prof. Steven Errede (Lecturer) 435 Loomis 333-0074  serrede@illinois.edu
• Matt Ziemann (TA for P193 POM)  mrziema2@illinois.edu
• Jack Boparai (UG Lab Czar) 6101 ESB 333-2208  jboparai@illinois.edu

Textbook for Physics 193 POM Course:

Physics 193 POM Web Page:  https://courses.physics.illinois.edu/phys193/
• Much material for POM course posted there – general info, lecture notes, past students’ final reports, POM summer student final reports, results, references, pix, neat links…

Course Space-Time Info:
• Lectures/Demos/Labs: Friday 10:00-11:50 am – 6105 ESB (Eng. Sci. Bldg.)

Office Hours:
• Prof. S. Errede: Anytime  {by app’t is preferred…}
• Matt Ziemann: By app’t

Course Content/Organization:
• Lectures – will cover physics, history & technology of the development of music & musical instruments – all kinds, old & new & physics of human hearing, room acoustics…

• Demos – lab & other equipment will be used to augment lecture material – for hands-on exploration/investigation…

• Labs – use various electronic measurement equipment – oscilloscopes, function generators, digital multi-meters, spectrum analyzers, lock-in amplifiers, power supplies, computer based data acquisition systems, electronics, etc. to carry out physical measurements/experiments to elucidate/learn about the physics of how musical instruments work, sounds are produced, etc.

• Students chose, and then carry out their own POM-related project(s) - work on during lab portion of POM class throughout the semester – brief oral presentation to class @ mid-term, and brief final oral presentation to class & {substantive!} final written report @ end of semester. Final POM report(s) will posted on the P193 POM web page. Please see P193 POM website – check out final reports that may be of interest to you, from previous POM students’ projects – will help give you possible ideas for your project!!!

• Course grade based on mid-term & final oral presentations, final written report.