

## 29:044 Physics of Sound – LABORATORY

**TA:** Anthony Moeller  
**Office:** 256 Van Allen Hall  
**Office Hours:** 12:00-2:00 p.m. Thursday in 256 Van Allen  
(additional hours by appt.)

**Phone:** 5-1607 (office) or 5-2832 (research lab)  
**E-mail:** anthony-moeller@uiowa.edu

**Lab Sections:** 29:044:043 Thursday 2:30 - 4:20 pm 361 Van Allen Hall  
29:044:047 Thursday 7:00 - 8:50 pm 361 Van Allen Hall

**Laboratory:** There are 11 labs, of which 10 will count towards your final grade. Your work in lab is worth 25% of your final grade, so you should take it seriously. Misconduct in the lab will not be tolerated.

### Lab Schedule:

<b>Date</b>	Jan 31	Feb 7	Feb 14	Feb 21	Feb 28	Mar 6	Mar 13
<b>Lab</b>	SHM 1	SHM 2	Speed of Sound	Doppler Effect	NO LAB	Overtones of a tube	Mersenne's Laws
<b>Date</b>	Mar 20	Mar 27	Apr 3	Apr 10	Apr 17	Apr 24	May 1
<b>Lab</b>	NO LAB (Spring Break)	The Sonometer	The Synthesizer	NO LAB	Basic Circuits	Digital Sound	Unstable Helmholtz oscillator

### Laboratory Organization:

First 10-20 minutes: discuss lab, explain apparatus and procedure  
Rest of lab: perform lab and write lab report  
End of period: turn in lab report

- ID for instruments
- ***Do not load any software on the PC or change PC settings***
- Turn off the apparatuses after use.
- Clean the lab bench before you leave. I will check your lab bench before I give you any credit for clean up.

**Tutorial:**

The physics tutorial is located in room 54 VAN – the hours it is open are posted on the door or go to <http://www.physics.uiowa.edu/ptutorial.html>

**Complaint procedures:**

"Academic Misconduct" and "Student Complaints Concerning Faculty Actions" procedures are available for you review in the Schedule of Courses, pg. 40. The Associate Chair of the Department, Professor Mary Hall Reno, can be contacted through the main office - 203 VAN. As stated in the procedures noted above, complaints or comments regarding TAs should first be directed to the instructor.

**Makeup labs:**

Students are not allowed to attend sections they are not registered for (makeup labs) except under the following conditions.

1. The student must have permission from the professor, both TAs involved, and, for physics labs, the laboratory coordinator. Permission must be requested at least one week in advance except in the case of an emergency.
2. No student can go into a section that is already full.
3. No more than one "visiting" student in any lab section at a time.

Permission is not automatic and may be denied due to lack of equipment, experiments requiring close TA scrutiny, or other circumstances.

As stated in the University's Course Exam Schedule Conflict Policies: "When there is a conflict between an exam scheduled outside of class time and a regularly scheduled course, the regularly scheduled course will take precedence." It is up to the instructor of an exam scheduled outside regular class hours to arrange a makeup exam for the students who have a schedule conflict.

**Students with disabilities:**

I need to hear from anyone who has a disability, which may require some modification of seating, testing or other class requirements so that appropriate arrangements may be made. Please see me after class or during my office hours.