

**PHYS 1420 (section 53): General Physics Laboratory
Syllabus for Spring 2009, W 2:30-5:25 pm**

Instructor: Dr. Wayne Keith: 793-3874, keith.wayne@mcm.edu
Office Hours: S 110-C: MWF 10-12, and TRF 1:00-2:00
Web: <http://www.mcm.edu/~keith.wayne>
Text: Printed lab handouts
Required: scientific calculator, paper, pencil

Lab Description: This laboratory course is intended to compliment the General Physics lecture by giving the student real-world hands-on experience with the phenomena discussed in class. Typed lab write-ups will be required for all labs. See guidelines in lab manual for details about lab reports.

Lab Goal: Acquaint the student with scientific laboratory techniques and emphasize the underlying physical principles of physics.

Grading: Your final grade (20% of the lecture grade) will be determined by a weighted average of your individual lab grades, according to the point totals shown below. One grade will be dropped at the end of the semester.

Attendance/Make up policy: Failing to attend the lab meeting and/or not submitting a lab write up on time will result in a zero for the lab. If you cannot make a lab meeting, contact the instructor to see if you qualify to make it up at another lab meeting during the same week.

Phys1420 Lab Schedule

| Date | Lab Number | Lab Name | Points |
|------|------------|---|--------|
| 1/14 | | No Lab | |
| 1/21 | 1 | Speed of Sound | 100 |
| 1/28 | 2 | Ideal Gas Law | 100 |
| 2/4 | 3 | Temperature and the Law of Cooling | 100 |
| 2/11 | 4 | Thermal Expansion | 100 |
| 2/18 | 5 | Latent Heat | 100 |
| 2/25 | | Oral presentations of Lab 5 | 100 |
| 3/4 | 6 | Electrostatic Potential and Electrostatic Field | 100 |
| 3/11 | | No Lab | |
| 3/18 | 7 | Ohm's Law of Resistance to Current | 100 |
| 3/25 | 8 | Capacitors | 100 |
| 4/1 | 9 | Magnetic Field of the Earth | 100 |
| 4/8 | | Peer Review of Lab 9 | 100 |
| 4/15 | | No Lab | |
| 4/22 | 10 | Simple Lenses | 100 |
| 4/29 | 11 | Wavelength of Light | 100 |
| 5/6 | | No Lab | |