

PHYSICS
29:011 College Physics I – Laboratory

TA: Justin Parsons
Office: 409 (and I will be moving to 658F) Van Allen Hall
Office Hours: 3:00 – 5:00PM Wednesday
Although you can always email or try to arrange another meeting time.

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Lab Manual: EXPERIMENTS IN MECHANICS, WAVE MOTION & HEAT
by John Goree & UI Department of Physics and Astronomy
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Lab Section: 29:011:002
Thursday 1:00-3:50PM
Room: 262 Van Allen Hall

29:011:003
Tuesday & Thursday
7:00-9:50PM
Room: 262 Van Allen Hall

Laboratory: Attendance is required. A pre-lab and a lab report are required for each lab.

Lab Schedule: June 11, 12 : LAB 1, "Introduction to Laboratory Measurements", M1
June 16, 17 : LAB 2, "Kinematics with Constant Acceleration", M2
June 18, 19 : NO LAB
June 23, 24 : LAB 3, "Projectile Motion", M3
June 25, 26 : LAB 4, "Acceleration, Force, And Newton's Second Law", M4
June 30, July 1 : NO LAB
July 2, 3 : LAB 5, "Conservation of Energy", M5
July 7, 8 : LAB 6, "Collision in Two Dimensions", M6
July 9, 10 : LAB 7, "Moment of Inertia", M7
July 14, 15 : LAB 8, "Conservation of Angular Momentum", M8
July 16, 17 : NO LAB
July 21, 22 : LAB 9, "Simple Harmonic Motion" M9
July 23, 24 : LAB 10, "Specific Heat", H3
July 28, 29 : NO LAB
July 30, 31 : Review Session

Laboratory Organization:

Beginning of period: your answers to the pre-laboratory questions will be collected
First 20-30 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 up 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 Tom Boggess, can be contacted through the main office -203 VAN. As stated in the procedures noted above, complaints or comments regarding TA’s 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.

The student must have the permission from the professor, both TAs involved, and, for physics 1 abs, the laboratory coordinator. Permission must be requested at least one week in advance except in the case of an emergency.

No student can go into a section that is already full.

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.

Lab Tips:

Read the lab beforehand. It may seem boring, but it will enable you to work more efficiently during lab. That is important as most of these labs run about three hours.

if you get stuck: a) Stop and think about what you are doing. b) Read the manual. There are detailed instructions that cover most aspects of the lab. c) Do not hesitate to ask me for help. Do the labs neatly; you will score better.

Do not hesitate to ask questions.