

## Physics 251 Laboratory Schedule Spring 06-07

<u>Week of:</u>	<u>Experiment</u>	<u>Number</u>
Apr 2	Measurement and Error	Handout
Apr 9	Vector treatment of concurrent forces	4
Apr 16	Newton's Second Law, Technical Report draft <u>due</u> the week of April 23 <sup>rd</sup> in your laboratory Final version due week of May 7 <sup>th</sup> in your laboratory	Handout
Apr 23	Centripetal Force	Handout
Apr 30	Impulse and Conservation of Linear Momentum	Handout
May 7	Ballistic Pendulum	10
May 14	Measurement of Moments of Inertia	12
May 21	Non-concurrent forces	5

1. The experiments are mostly from the Physics Laboratory manual General Physics Experiments by the 250 Series Committee. This book should be purchased at the bookstore. In addition there will be some handouts to supplement this manual this quarter.
2. The lab reports are to be written up as described in the handout on writing laboratory reports, and given to your lab instructor at the end of the lab or within 48 hours of the end your lab. The small green or black Vernon Royal Composition books with Quadrule ruling are to be used. They may be purchased at the bookstore.
3. **The technical report is described in the handout on technical reports.** It includes an abstract, theory, experimental details, data, results (tables or graphs), conclusion, and bibliography in that order, see the special handout on writing and submitting the technical report.
4. In writing the technical report, give particular attention to: English (spelling, precision of statements, proper word usage, etc.); handling of equations, tables, graphs (see your textbook here for examples); organization; neatness. Make sure that your theory is complete, relevant, and discusses the physical phenomena and equations used. In the conclusions, indicate: what you learned about the physical phenomena observed, the values obtained, the source of errors, and suggestions for improving equipment and technique so as to reduce the errors. The conclusions are important and require considerable thought.
5. Missed labs and/or lab reports shall count as zero (0). If more than two (2) labs and/or reports are missed with or without a University sanctioned excuse (and not made up in the case of a University excuse) the student shall fail the entire course. **Read the Physics Department Laboratory Makeup Policy** posted on the door of the laboratory. **You are responsible for this information.**
6. For each school day (Monday - Friday) a report is late, without excuse, one (1) point will be subtracted from the report grade. A 70% grade in lab is required to pass the lab unless otherwise stated in the lecture syllabus.
7. In the case of academic dishonesty (copying, plagiarism, etc. including material from the previous quarters, your lab partner, the lab manual), the grade on the lab report may result in a zero. If this happens on the technical report, you may fail the lab and hence the entire course since your total lab grade may now fall below 70% as the technical report is worth 30% of the total lab grade. All lab reports are to be your own work even though the data may have been taken by you and your lab partner.

**\*\* Bring your calculator, pen, memory stick, and a ruler to lab AND READ THE LAB. BEFORE YOU COME.**