

Physics 251 - Winter 2003

Laboratory Schedule

Week	of:	Experiment	Number
Jan	6	No Labs	–
Jan	13	Measurement	2
Jan	20	No Labs	–
Jan	27	Kinematics	3
Feb	3	Vector Treatment of Concurrent Forces	4
Feb	10	Newton's Second Law (Technical Report)	9*
Feb	17	Conservation of Linear Momentum	7
Feb	24	Ballistic Pendulum	10
Mar	3	Measurement of Moments of Inertia	12
Mar	10	Equilibrium for Nonconcurrent Forces	5

* The **Technical Report** is **due** the week of Feb. 24th in your laboratory.

The following contains general rules for the laboratory work:

1. The experiments are from the Physics Laboratory book 'General Physics Experiments' by the 250 Series Committee. This book should be purchased at the bookstore.
2. The lab reports are to be written up in small green or black Vernon Royal Composition books with Quadrule ruling. Those books may be purchased at the bookstore. See Page 11 in the lab manual for further details on lab reports.
3. The **Technical Report** is worth 30% of the total lab grade, and is described in 'General Physics Experiments', and is required to be handed in **two** (2) weeks after the laboratory in which the data were taken. It includes an abstract, theory, data, results (tables or graphs), conclusion, and bibliography (this order is to be maintained. See Page 11 of the lab manual.)
4. In writing the Technical Report, particular attention should be given to: English language (spelling, precision of statements, proper word usage, etc.), handling of equations, tables, graphs (see your textbook for examples), organization, and neatness. Make sure that your description of the theory is complete and relevant, and discuss the physical phenomena in context of the equations used. In the conclusions, indicate what you learned about the observed physical phenomena, the experimental values obtained, the source of errors, and give suggestions for improving the equipment or techniques used to reduce the errors. Your 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 lab reports are missed with or without a University sanctioned excuse (and not made up for in the case of a University excuse), the student shall **fail the entire course**. Read the **Department of Physics and Astronomy 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 the 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 previous quarters), the grade on the lab report may result in a **zero**. If this happens in with a Technical Report, the student may fail the lab and hence the entire course, since the total lab grade may then fall below 70%. As a reminder the Technical Report is worth 30% of the total lab grade.
8. **Bring calculator and ruler/protractor to lab.**
9. **Read the lab before you come.**