PHYS 2402 Principles of Physics III
Laboratory Syllabus
Fall 2010
Texas Tech University
Course Syllabus

Laboratory Instructor: Payam Norouzzadeh
Section: 2402-501, 502

Laboratory Coordinator:
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Laboratory Manual: A Guide for the Perplex Experiments in Physics, 2402,
Department of Physics Texas Tech University

Meeting Place: Science Building 301

Meeting Time: 2402-501 -- Wednesday at 2:00 PM
2402-502 -- Thursday at 5:00 PM

Laboratory: Laboratory meeting will consist of working through one of the laboratories
in the Physics 2402 Laboratory Manual. It may also include working through questions or
problems in the lab manual or homework assignments from the laboratory instructor. The
laboratory and homework will be graded.

Laboratory Write-up: each week you write up the laboratory work and work the
questions and problems at the end of each lab. The laboratory write-up is 80% of your
laboratory grade.

Participation: Coming to class on time, not leaving early and being “on-task” when you
are in the lab counts as part of your participation grade. Also, working any departmental
assessments, which may include a general pre-test, post-test or other surveys and surveys
to be done online outside of class, will count toward your participation grade. For all of
these things, you will get full credit, if you do them, and points will be subtracted from
your participation grade, if you do not do them. They will not be graded, except for
completion. However, if they are not completed or are not taken seriously, you will have
points taken off. Participation will count as 20% of your grade.
List of laboratory experiments:

The lab schedule will be arranged based on the number of students enrolled in this course. The experiments are as follows:

1-The speed of light
2-The Rydberg constant
3-The photoelectric effect
4-The Frank-Hertz experiment
5-The Millikan experiment
6- The Brag diffraction (X-ray scattering)
7-The radioactivity( 2 sessions)
8-The cosmic Muons
9-The gamma spectroscopy

Grading:

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<tr>
<td>Laboratory write up</td>
<td>80%</td>
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<tr>
<td>Participation</td>
<td>20%</td>
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Final laboratory grades will be scaled to the same scale as in lecture (100-A-92-B-80-C-70-D-60-F).

Any student who because of a disability may require special arrangements in order to meet course requirements should contact the instructor as soon as possible to make any necessary accommodations. Student should present appropriate verification from AccessTECH. No requirement exists that accommodations be made prior to completion of this approved university procedure.