 PHYS 2402 Principles of Physics III
Laboratory Syllabus
Spring 2012
Texas Tech University
Course Syllabus

Laboratory Instructor: Ganga Jayarathna (ganga.jayarathna@ttu.edu)
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 – Monday at 2:00 PM
2402-502 – Wednesday 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:

<table>
<thead>
<tr>
<th>Experiment No.</th>
<th>Experiment</th>
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<tbody>
<tr>
<td>01</td>
<td>Photoelectric Effect</td>
</tr>
<tr>
<td>02</td>
<td>Gamma Spectroscopy (2 sessions)</td>
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<tr>
<td>03</td>
<td>Radioactivity</td>
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<tr>
<td>04</td>
<td>Rydberg Constant</td>
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<tr>
<td>05</td>
<td>X-ray Diffraction</td>
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<tr>
<td>06</td>
<td>Millikan Experiment</td>
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<tr>
<td>07</td>
<td>Speed of Light (2 sessions)</td>
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<tr>
<td>08</td>
<td>Speed of Sound / TBA</td>
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</tbody>
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Grading:

Laboratory write up 80%
Participation 20%

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.