

# Technical Physics 2 Lab [(PHY1101)]

## Syllabus

**Online Lab Manual** : The lab manual for this course will be posted online. There is a “schedule” page that shows the weekly schedules of the lab experiments for the term. There are links for the lab manual (pdf format) for that experiment, any additional files needed, and the online help page (to be used during the lab session). That would be a very useful page to bookmark! Also included on that page are the lab report requirements.

**Laptops during the lab session:** Each group will need to have at least one, if not two laptops available during the lab session. Most of the labs require taking data, and the laptops have the lab software already installed.. The second laptop could be used to view the online help pages.

**Data/Question sheets:** The last few pages of the lab manual contain the data/question sheets for the lab. These should be PRINTED OUT and brought in for each lab session. These will be filled out during the lab session, signed by the lab instructor, and then included with the lab reports. *Make sure you fill out the questions as you go along* – it is more important to understand the sections you did, as you go along - rather than race to finish and not understand anything.

**Lab website** : There is a web page containing the schedule of the labs and online help pages:

<http://vnatsci.ltu.edu/natsci/physics/TechPhys2Lab.shtml>

**Schedule:** Labs are done following the schedule on the above site. The lab reports are to be an individual effort - not a group effort. Labs are to be **typed** and are to conform to the “lab report format” as outlined in the lab report format document on the lab web page. They are due the week following the date the experiment was performed. It is to be turned in at the beginning of the lab period. You have a one week grace period following that date to turn in the report without penalty. After that the report will not be accepted.

**Makeup Labs** : For special cases when you cannot attend a lab session due to an emergency, you can make-up the lab on Thursday after the lecture of the week following the missed lab. You cannot make-up a lab during your regular class since there is not sufficient time to cover TWO lab experiments in a single class period.

**Office hours** : T.B.A. by your individual lab instructor.

**Grading** : In order for the 1 hour credit to be earned, the student must participate in 20 experiments. This has been divided in to 10 experiments plus 1 orientation session for each of PHY1100 and PHY1101. The average of the lab report grades from PHY1100 represents one-half of student’s grade and the average of the reports from PHY1101 comprises the other one-half of the student’s grade average upon which the final letter grade is based for the entire Lab Course (PHY1100 + PHY1101). The letter grade entered for PHY1100 is only a temporary grade (entered for record keeping purposes only) and is not included in the student’s GPA. The letter grade entered for PHY1101 is the final grade for both PHY1100 and PHY1101.

Lab reports will be graded on a basis established by your individual instructor. *Your individual lab instructors will distribute information concerning their scoring policies.* This will be handed out in class. Your Average for the first half of the Laboratory requirement, Technical Physics (PHY1100), is forwarded to the instructor for the second half (PHY1101).

**Recommendation** : All of the necessary steps to smoothly process the information we seek in a particular experiment will be contained in the lab manual. **Studying the manual before the session is essential and will ensure an effective lab period.** The emphasis is on conceptual understanding and experimentation ... *try things!*

\*\*If you are a freshman, you may drop this course only after you have discussed the reasons for your withdrawal with me and I have signed your Drop-Add Form. The Registrar will not approve your withdrawal without my signature. If I am not available, you may ask the department chair, Dr. Sky, in room S322 to approve your withdrawal and sign your form.\*\*