

**PHYS107**  
**Lab Final Format & Study Items**

**Lab final will consist of 2 parts (each part is one hour ) for a total maximum time of 2 hours**

**1) Practical part** will have **4 parts** only (out of a possible 6 experiments) @ ~14 minutes each in the **normal lab location (i.e., Rm 212)**. **Total time is one (1) hour.**

You will be required to do only a short part of each experiment (since you only have ~14 minutes per experiment).

The six (6) experiments to study (for Practical part) are the following:

- Work and Energy
- Galileo's Incline Plane
- Newton's 2<sup>nd</sup> Law
- Torque
- Gravity
- Density

What to study for in the **Practical** part-

Be sure and look at any plots you made (e.g., a plot of velocity vs. time) and how to interpret.

Look at any diagrams you generated. Be sure and know what the main idea of each of the labs listed above are (**e.g., how to determine the density of an object**)

**2) Theory part** will have one hour (maximum) and will be **given in the Optics lab (Room 203)** at the other end of the hallway.

This part will have approximately 2 or 3 question **from all ten (10) experiments**. Around 25 questions total. Questions format are fill in the blanks, true/false, short answers and/or matching.

What to study for in the Theory part-

- The **main concepts** of each experiment (e.g., what is Newton's 2nd Law, what is the definition of density or what is torque?)
- **Any plots or figures** (e.g., plots of velocity vs. time) generated in an experiment
- **Post lab questions**
- Any **demos** that were done in the lab

**If you would like to practice or refresh your memory concerning a particular experiment, you may come (during your normal lab time) to the make-up lab next week and you will be allowed to do so.**