**PHYS107**
**Lab Final Format & Study Items (Fall 2025)**

## 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 439 in Duff Center). 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 2nd 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 (e.g., as in 'Hellboy' figure). 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 Room 430 in Duff Center)** at the other end of the hallway from lab.

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 as 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 or Gravity plot) 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 do so during your regular lab time this week (starting 11/18/25) during the mandatory review (& also make-up lab sessions for those approved.) You must attend lab review this week to take lab final!**