

PHYS108
Lab Final Format & Study Items
(Spring 2024 version)

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

1) Practical part will have **4 parts** (out of a possible 5 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 essential part** of each experiment (since you only have ~14 minutes per experiment).

The Five (5) experiments to study (**for Practical part**) are the following:

- Exp 14B Ohm's Law - Series and Parallel Circuits
- Exp 16 – Magnetism
- Exp 17 – Color Mixing
- Exp 18- Reflection & Refraction
- Exp 19 – Converging Lens

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

Be sure and look at any plots you made 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., what is Ohm's law and what is a series circuit**)

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

This part will have approximately 2 or 3 questions **from all nine (9) 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 concept of each experiment (e.g., what is Ohm's Law, what is efficiency or what are the primary additive or subtractive colors etc.)
- Any plots (e.g., from Ohm's Law) or figures (e.g., refraction figures) generated in an experiment
- Post lab questions
- Any lab 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.