

Remote Laboratory Instructions

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Introduction

Both conducting and participating in a laboratory course online are challenging. In order to maximize understanding and comfort with the equipment, procedure, and results, we will follow a specific workflow with multiple comprehension checks. Certain materials will become available only after requisite tasks are completed in order to facilitate this workflow. For example, the lab data will only become available after the completion of all other tasks. The following is a summary of the ordered steps students should follow in order to complete their lab assignments.

Lab Workflow

1. Read *Lab Manual* posted on Gauchospace under the appropriate folder for the current lab.
2. Watch a video overview of the *Equipment Components*. Pay close attention to how the real equipment corresponds to the diagrams and descriptions in the manual.
3. Complete Gauchospace *Prelab/Safety Check* for the current lab. Three total attempts are allowed, and a minimum score of 80% must be achieved in order to access all further materials. The purpose of this quiz is to emphasize important points from the lab manual and safety sheets!
4. Watch the *Experimental Procedure* video. Make sure to take notes.
5. Meet with the instructor/TA during your scheduled slot to answer questions from the list of *Key Experimental Questions*. This is also an opportunity for students to clarify any confusions they might have about the lab.
6. After you meeting, if the instructor is satisfied with your understanding of the experiment and data processing procedures, you will gain access to the *Experiment Data* in order to complete the lab report.

Students' patience is greatly appreciated in this situation, and the hope is that following these steps will be intuitive and help students get as much out of the course as possible!