

Module 1 Expectations

5.35
Fall, 2012

Students should come to the laboratory prepared and on-time. This means that you should come to class having reviewed the relevant lecture notes, read the procedure for the relevant experiments and completed the pre-lab assignment.

Quizzes

There will be a quiz at the beginning of each lab period which will cover material about the labs you will be completing that day. These quizzes are designed for all of you to do well on, so long as you have read through the lab manual!

Pre-Labs

These are designed to prepare you for the labs and to give you a chance to look up any extra details that might be helpful for the experiments. All pre-lab assignments should be typed in a legible, standard font (Arial, Times New Roman, etc).

All pre-labs will also have an extra credit question, which is completely optional, and will not be accepted if it is longer than one page typed (though most extra credit questions should only take a paragraph or two). These extra points will count towards your overall grade in the course in the way that helps you most. Partial credit will be given liberally on these assignments, as they are much more difficult than the required assignments for the experiments.

Notebook Etiquette

In addition to your typed pre-labs, you will be expected to keep a notebook that has records of your data from the actual labs. Before coming to lab, you will need to write out the samples/reagents you are using and any relevant safety data about these compounds. The carbon copy of this page must be handed in with your pre-lab. When collecting data, you will be expected to keep track of any relevant values and data from the experiments in your lab notebook. The carbon copy of this sheet will be handed in at the end of the lab period.

Oral Exams

Oral exams will be conducted during the week of October 1-2. These will be 30 minute exams in which you present your findings from the lab in a PowerPoint presentation. This is designed to be a presentation and discussion about your results and the theory of the different experiments we have conducted over the semester; it will NOT be an interrogation! When preparing your presentation, make sure that your data is organized in a clear and logical manner that allows me to follow your results easily. Be sure to include references (following the [American Chemical Society standard formatting](#)) on all slides that include information that is not common knowledge or collected by you! If you learned from the lab manual, you must reference that as well.

In the oral exams, I will ask you questions about your data analysis and about the theory behind the experiment and the spectrometers. Please be familiar with the different techniques to the extent that you are

comfortable talking about them. If you prefer using diagrams to discuss theory, I recommend including a few extra slides at the end of the presentation with images or schematics that you can talk about if asked.

You will be required to email the file to me the evening before your exam (by midnight). Students who do not comply with this will not be allowed to sit the exam.

Note: Be sure to save your files as images as well as data-sets when you conduct your experiments! This will be much easier to deal with when you begin organizing your oral presentations!

Grading

Your grade for Module 1 will be made up of your quiz scores, pre-labs, technique, and your oral exam. The breakdown for the grade is given below.

10 % Quizzes

10 % Pre-Lab Assignments

10 % Technique

20 % Factual Record (notebook, data analysis)

50 % Oral Exams

Your technique grade will reflect your preparedness. This does NOT mean that asking questions will make your grade go down!! It will reflect your ability to know (roughly) what to do, and mostly, it will reflect your ability to analyze your results effectively. Your results will not be perfect!!!! A person with a high technique grade will be able to explain the experiment, including the unexpected results and will be able to explain the source of error and other unexpected factors in the results.

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