

BIO 105 FALL 2013

Lab instructor: Dr. Lisa Dorn

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Lab: HS 47/50;

Office Hours: TBA

GRADING

- 1) You will hand in 4 lab reports each worth 20 pts
- 2) You will hand in 2 graphing exercises each worth 10 pts
- 3) You will take a short quiz every single week (13 total). Those quizzes will be administered via D2L. They will open the hour after your lab is finished for that week and close the day before your next lab meets (@10:30pm).

LAB REPORTS

- 4) Lab reports are due **BY THE END OF LAB**. You cannot make-up a lab at another time. If you absolutely positively cannot be here for lab **send me an e-mail**.
- 5) Each bench will hand in a single report.
- 6) **You must follow the format for lab reports that is in your lab manual (except when I say otherwise). Which includes:**
 - **Hypothesis Statement**
 - **A description of the experiment you proposed and conducted**
 - **Predicted results and rationale**
 - **Actual results and conclusions**

I WILL NOT ACCEPT A REPORT THAT DOES NOT USE THE OFFICIAL REPORT PAGES AT THE BACK OF THE LAB MANUAL

4). GRADING:

- Each report is worth 20 points
- Each graphing exercise is worth 10 pts
- Each quiz is worth ~ 7 pts
- **The total value of your lab grade = 190 pts**
- The value of your lab grade toward the course as a whole depends on your instructor.

REPORT GRADING:

- a. What is a hypothesis statement? **Worth 4 pts.**
 - I. Statement of the general concept you are testing.
 - a. It's a statement, not a question.
 - II. This should not be the same as your predictions.
 - a. In other words, do not phrase it as an if/then statement.
- b. What to put in the Experiments Proposed section. **Worth 4 pts.**
 - I. This is the part where you **list the steps** you took in the experiment that you designed.

- II. Examples of the information that you have to include for full credit are:
- i. Concentrations of solutions you used on your subject
 - ii. What those solutions were i.e. 5% of what?
 - iii. What your control was, if you had one. You won't always need one.
 - iv. How long did you soak, treat or otherwise manipulate your subject **if applicable.**

In short, you must include enough information so that if I wanted I could repeat your experiment **EXACTLY**.

- c. What to put in Predicted results and rationale. **Worth 4 pts.**
 - I. Here you tell me what you think your results will be *based on your hypothesis* and **WHY (i.e. rationale)!**
 - II. Your predictions cannot come out of the air, you must tell me why you predict what you predict or you will automatically lose half of the points for this section.
- d. What to put in Actual Results **Worth 4 pts.**
 - I. **Your results.** You should make a table and/or a graph, **if necessary.** The table is usually necessary. **This part is worth ½ of the total.**
 - II. **This part is worth the other half.** Summarize the overall results in a sentence or two. If you fail to write at least one sentence you **LOSE ALL 4 PTS.**
- e. What to put in Conclusions section. **Worth 4 pts.**
 - I. Summarize the overall results with a conclusion based on those results. In other words, what did the results tell you about your hypothesis and predictions? If you get a result that does not support your hypothesis it is not enough to say "I was wrong". You must try to analyze whether you did the experiment without error first. Be certain you didn't do the last step first etc. Look at the results that the rest of the class obtained. Even if you did not support your hypothesis that is not a failed experiment so don't say "My experiment failed", unless it did.

6). ATTENDANCE:

I will take attendance no matter what.

Lose 5 pts for every unexcused absence.

- a. Excuses that will not count include but are not limited to:
 - Vacation
 - Your mothers' birthday party (Really! I'm assuming your parents know you pay money to go to school).
 - Having your wedding gown/bridesmaids dress fitted.
 - Your wedding (you have 3 months and 6 weeks free every year during which to schedule these things).
- b. Excuses that do count:
 - Broken limbs
 - life-threatening illnesses
 - Communicable diseases

- Family members funeral
- Court appearances