

**Bio. 105 BIOLOGICAL CONCEPTS: UNITY**  
**LABORATORY INSTRUCTOR: Dr. B. Holton**  
**SECTIONS: D01L Fall 2012**

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OFFICE HOURS: Tu 12:10pm-2:10pm; Wed. 3:10pm-4:30pm; or by appointment.

TEXT (laboratory): **Bio-105 Concepts in Biology: Unity, Laboratory Manual.**

**ATTENDANCE:** Students must attend all laboratory sessions. If you have a university-sanctioned excuse, (loss of an immediate family member, participation in university sponsored athletic or academic event, dire illness) then YOU must arrange with another lab instructor to attend a lab some other time during that week. I teach four sections this semester, and they are listed above. There is a schedule posted outside of the lab room that shows when other lab sections meet.

**TO SUCCEED IN LAB:**

- read (and think about) the exercise before coming to class
- understand the rationale behind each exercise
- understand why the experiments are done the way they are. What does each reagent do? What does each procedure do?
- understand how your results support or refute the hypotheses being tested
- relate exercises in lab with material covered in lecture
- ask questions and take notes!!!!

Lab takes studying time. You may have to work hard to cover each of the points listed above. Do not think that simply showing up in lab and going through the experiments will earn you a good grade in lab or on the lab exams that are given during lecture period!

**LAB REPORTS:** I will require that you write lab reports for some of the labs. There are lab report forms in the back of your lab manual. The forms show that the report will be short BUT you must think carefully about how you word your responses. You must be concise and clear and go straight to the point. Lab reports may be accompanied by graphs, depending on the exercise.

**Hypothesis** – do not write an if/then statement. Write a broad statement that proposes an explanation for your observations.

**Proposed Experiments and Controls**-outline the experiments to be done, including controls  
**Predicted Results and Rationale**-predict outcomes of the experiments and state how they will support/refute your hypothesis. State the purpose of each control.

**Actual results**-be sure to provide a written description of your results as well as graphs or other figures.

**Conclusions**-describe how your results support/refute your hypothesis and, if possible, give a model

**GRADING:**

- Your grade will be based on scores from lab reports (40%) and quizzes (50%) and participation (10%).
- If you miss a class, you will not be allowed to make up the quiz. If a lab report is collected, you will be allowed to write and submit your own lab report.

**GRADING SCALE:** 93-100% = A, 90-92 = A-, 87-89 = B+, 83-86 = B, 80-82 = B-, 77-79 = C+, 73-76 = C, 70-72 = C-, 67-69 = D+, 63-66 = D, 60-62 = D-, below 60% = F. I reserve the right to lower the scale slightly if class performance warrants such a change.

**CHEATING POLICY:** Cheating of any kind will not be tolerated. It will result in an F grade in the class and possible expulsion from the University.