

**Bio. 105 BIOLOGICAL CONCEPTS: UNITY**  
**LABORATORY INSTRUCTOR: Dr. Bea Holton**  
**Spring 2014, Sections B09 (Mon), B10 (Tues), B13L(Thurs)**

**OFFICE:** Halsey 42

**PHONE:** (920) 424-7087

**E-MAIL:** holton@uwosh.edu

**OFFICE HOURS:** Wed/Thurs. 2-3:30pm, or by appointment. Instructor is SAFE – trained. Please don't hesitate to drop by if you have questions about lab or lecture material. I am here to help.

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

**PAY ATTENTION TO THE INFORMATION BELOW BECAUSE YOUR LAB GRADE CONSTITUTES A LARGE PERCENTAGE OF YOUR GRADE IN THE CLASS. STUDENTS LOSE A LOT OF POINTS EVERY SEMESTER BECAUSE THEY DO NOT READ CAREFULLY!!!**

**TWO MAJOR OBJECTIVES OF THIS LABORATORY CLASS:**

- 1) Use principles learned in lecture to understand experimental results that you will get in this lab. The lab and lecture are closely related. If you don't see this, then you don't understand the material and you need to figure out why!
- 2) Learn to think logically, critically and analytically about data that you collect. This will be practiced when you write lab reports and take the quizzes.

**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 same week. I teach three 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

**ONLINE QUIZZES:** You will be expected to **take an online quiz every week**. Quizzes consist of 7 multiple choice questions and you will have 14 minutes to take them. Each will be accessible from the day after class until the midnight of the day before class. Because each quiz will be available for 6 days, you will not be allowed to take makeup quizzes. Quizzes are open book BUT you will not have the time to look up every question and many questions will not have answers in the lab book.....so study for these quizzes. It will be considered cheating if you work with other students on the quizzes, and, of course, if someone takes the quiz for you. **To do well, read the questions CAREFULLY.**

**GRADING:**

- Your grade will be based on scores from lab reports (30%) and quizzes (60%) and participation (10%).
- If you miss a class, you will be expected to take the online quiz (see below above). 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.