

# Biology 105 – Biological Concepts: Unity

## Spring 2012 Laboratory Syllabus

### Sections A02L and A06L

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**Office Hours:** Monday and Wednesday 11:30-12:30, Thursday 12-1 or by appointment.

**Text: Biology 105: Concepts in Biology: Unity, Laboratory Manual** (Spring 2012). Please read the current exercise in the lab manual and the suggested textbook pages before coming to lab.

**Attendance:** Attendance in lab is mandatory. Unexcused absences will result in 5 points being deducted from your grade. If you cannot be present for lab, please contact me by e-mail. If you have a university sanctioned excuse (loss of an immediate family member, participation in university-sponsored athletic or academic event, or military commitments) then **YOU** must arrange with another lab instructor to go to another lab during the same week.

**Grading:** Your grade in lab counts for 300 points toward your Bio 105 grade. Lab reports or worksheets, quizzes and attendance in lab are worth 200 points. The lab exam is worth 100 points. Your group will hand in four lab reports each worth 25 points. You will take ten D2L quizzes each worth 10 points.

**Lab Reports:** Unless instructed otherwise, each lab group is responsible for writing a report to be handed in at the end of the lab period. You must follow the format for lab reports that is in your lab manual. Please use the report forms and graph paper provided at the back of your lab manual. Be sure to write legibly with an eye towards correct spelling and grammar. Reports must include the following five elements (each worth 5 points):

**1) Hypothesis:** The hypothesis is a simple and testable statement that proposes an explanation for your observations. It is not the same as your predictions. Do not write an if/then statement.

**2) Proposed Experiment and Controls:** Describe the experiment to be done, listing all the necessary steps and controls. Your description should be detailed enough that another group could repeat your work.

**3) Predicted Results and Rationale:** State the results you expect to observe based on your hypothesis and **WHY** you expect these results. Predictions are based on initial observations and must not include information obtained from your actual experiment.

**4) Actual Results (including tables and/or graphs if applicable):** Present your results in this section. Provide a written description of your results as well as graphs, tables or other figures.

**5) Conclusions:** Summarize the overall results with a conclusion based on those results. The conclusion should be evident from you data. Describe how your results support/refute your hypothesis. If the observations did not support your hypothesis present a new hypothesis, and briefly describe an experiment to test your new hypothesis.

**Quizzes:** The lab quizzes will be taken on D2L each week. They will test your understanding of the concepts covered in the previous lab(s) and the basic concepts of the upcoming lab. Each quiz will be due no later than 10:30 pm the day preceding lab

**Cheating:** Cheating of any kind will not be tolerated. Students are subject to the UWO Student Discipline Code if they engage in any form of academic dishonesty. This code is available at <http://www.uwosh.edu/stuaff/images/student-discipline-code> .

**Lab rules:** Eating is not allowed in the laboratory. Students may bring a water bottle to class only during labs where bacteria are not being handled. Cell phones and music players should be turned off and stowed in a purse or backpack. Our lab time is limited and cell phones in use will be confiscated until the lab period is over. Relax and enjoy learning biology!