**Experimental Design Project - Final Experimental Design**

1. Experiment/Study Topic:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How does your topic relate to BIO 181 lab (Ecology, Evolution, Biodiversity)?
3. Write a hypothesis for the problem/observation/natural phenomenon you will be examining.

**OR**

Write research/study questions if your project is more discovery based/descriptive rather than hypothesis-driven.

1. Design an experiment to test your hypothesis OR answer your research/study questions. You will need to review your experiment with your laboratory instructor before you begin your actual experiment. Be sure to consider and identify the following in the experiment you design.

NOTE: [If the control/experimental groups are not applicable, explain why with respect to your experimental design. If you are conducting a descriptive type of study, then fill out the variables as best as you can and provide explanations for those that do not apply to your particular study design]

• based on the experiment you will be using to test your hypothesis, what are 1 or 2 plausible prediction(s)?–

• independent variable(s)–

• dependent variable(s) and how you’ll measure it/them–

• controlled variables–

• control group (if applicable)–

• experimental group (if applicable)–

• whether the data are qualitative or quantitative–

• how you might present this data–

• replication and/or sample size–

1. Briefly describe how you plan to conduct your experiment/study:
2. How did you incorporate the feedback from the peer reviewers in your revised Experiment Design Project?