**Enzyme Lab Report Guidelines**

**(30 points)**

1. Title (2pts)
   1. Include the variables. “The effect of I.V. on D.V.”
2. Introduction (6pts)
   1. Introduce the laboratory experiment. Relate your experiment to concepts learned in class. Explain why we did this experiment in the first place.
3. Data Presentation (10pts)
   1. Include a data table that shows the average absorption values for pH 4, pH 7, and pH 10. The lab data is posted on the course website – “Peroxidase Lab Data 2014.”
   2. Include a line graph of the average absorption data for pH 4, pH 7, and pH 10. Put all three lines on the same graph for easy comparison. A helpful “Line Graphing Skillz” document is posted on the website.
   3. Graph should be titled and axes labeled correctly.
4. Conclusions and discussion (12pts)
   1. Interpret the data. Discuss what your results mean when you consider the original experimental question.
   2. Address the validity of the experiment. Were there any errors or issues in terms of the experimental design or conducting the experiment that should be addressed? (Note: there is no perfect experiment. You must identify at least one issue.) Are you still confident in the results? Why or why not?
   3. Discuss a way(s) to change and improve the experiment.
   4. What is a question(s) for further investigation? What experiment would you like to do next?

* Do not use the first person.
* Submit your lab report as a Word document to TurnItIn. Choose “Upload a file”; do not choose “Copy and Paste” when submitting to TurnItIn.
* Due 10:00pm Wednesday 12/3/14.