Student name 1

Student name 2

Professor’s name

TA’s name

Course number

Date

**Lab #: Title/topic of lab**

**Introduction**

In this section talk about what the topic is that this lab covers and why it is important that you are studying it. Include any relevant theory about the topic.

**Procedure**

This section should be written like it’s your plan for the lab, written as if you have not done it yet. Describe the goal of the experiment, describe any given specifications (and not copy/pasted from the lab handout), demonstrate that you understand the experiment. You need to describe in detail what approach you will take to design, what you will do to simulate it (i.e., transient simulation over a particular time period, an AC frequency analysis over what frequency range, what type of signals used as inputs, etc.), and what you plan to do to measure the actual device built in the lab (what equipment will you use and what measurements you will take with the equipment). No screenshots or simulation plots go here but a schematic is fine. You don’t want to show anything that is a RESULT of any part of your experiment (Hint: RESULTS from your calculations/simulations/measurements go in the RESULTS section).

**Results**

This section contains the results of everything you put in the Procedure section. Here you should have results of design calculations, simulation results/plots, and measurement results/screenshots. You should also comment on all of the results; don’t just paste your screenshot, describe what you’re showing me.

**Conclusion**

This should be a complete summary of your lab, in particular the results. Talk about any difficulties you encountered, anything that you didn’t understand before but do now, or anything you still don’t understand. Then give your opinion of the lab and give feedback on how the handout could be more clear or how the TA could give a better explanation.

Some notes:

This is a very general format but you will encounter a similar but more formal version of this next year. The procedure and results section can be further broken up if there are many circuits built in a given lab. For instance, in Lab 1 there were two different rectifier circuits designed, simulated and built; you could have two procedure sections and two results sections for the report. I won’t be grading too hard on format but I will be giving you feedback about format. So if you care at all to improve throughout the term and prepare yourself for some more difficult labs in the future you’ll listen to my advice. That may sound kind of mean but I’ve been a TA for juniors who don’t seem to care at all who had professors that cared a lot. Now is the time for you to start creating good habits that will take you a long way later in this program. I’m here to help you get to that next level and I’m really excited to be part of it.