

Lab Report Requirements

(ENGR 065: Circuit Theory)

Each team is required to submit **one lab report** after each lab. The lab report is due a week later after it is assigned. The due time is 11:59 pm on the due day.

Your each lab grade includes three parts: prelab (if the lab has), attendance, and lab report. All students in a team receive the same grades for your lab reports. 5 points are taken off for each late day of the lab report submission. If a student misses or is dismissed from a lab, the student's lab grade will be zero even if you submit your lab report.

Each report must be written electronically (e.g. using MS-WORD) and submitted online (PDF file) in CatCourses. Tables, figures, and graphs should be produced electronically and attached to or embedded in the report if necessary. Figures and graphs should have clear captions, units, and labels. Each report must contain the following sections:

- **The cover page:** The cover page should include the lab title, lab number, date that the lab is performed, and names of the team members.
- **Contents of lab reports:** this is optional depending on your lab instructor's requirements.
- **Objectives:** A short description of the purpose of the lab should be provided.
- **Theoretical background:** A brief description of the theory used in the lab should be given.
- **Experimental procedures:** The procedure for the lab should be summarized in the report **using your own words**. The simulation and experimental results should be clearly recorded using tables, figures, and/or graphs.
- **Preliminary requirements:** If a lab requires theoretical calculations, **every student must individually calculate the results on a separate paper based on the relevant theory**. You either email your work to your TA before the lab starts or show your work to your TA at the beginning of the lab. Your TA will let you know how to submit the preliminary results.
- **Analysis of experimental data:**
 - Provide the circuits and simulation models used in the lab.
 - Provide the formulae or equations to support your lab results.
 - Compare theoretical results with your simulation or experimental ones.
 - Explain your results.
 - Answer the questions provided in the lab instructions.
- **Conclusions:** Discuss and summarize your lab results. You are welcome to provide your suggestions and comments on the lab.
- **References:** List all resources you refer to complete your lab report.