

The George Washington University  
Department of Electrical and Computer Engineering

ECE 140 Design of Logic Systems I

**MONDAYS** 15:30-18:00, Tompkins Hall Room: 301

**FRIDAYS** 15:45-18:15, Tompkins Hall Room: 301

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**Lab Outline**

<b>DATE</b>	<b>SUBJECT</b>	<b>REPORT DUE</b>
1 <sup>st</sup> week 01/23	Introduction and Experiment #1,2	-
2 <sup>nd</sup> week 01/30	Experiment #3,4	Lab Report #1
3 <sup>rd</sup> week 02/06	Experiment #5,6	Lab Report #2
4 <sup>th</sup> week 02/20	Experiment #7	Lab Report #3
5 <sup>th</sup> week 02/27	Experiment #8	Lab Report #4
6 <sup>th</sup> week 03/05	Experiment #9	Lab Report #5
7 <sup>th</sup> week 03/12	Experiment #10	Lab Report #6
8 <sup>th</sup> week 03/26	Experiment #11	Lab Report #7
9 <sup>th</sup> week 04/02	Experiment #12	Lab Report #8
10 <sup>th</sup> week 04/09	Experiment #13	Lab Report #9
11 <sup>th</sup> week 04/16	Experiment #14	Lab Report #10
12 <sup>th</sup> week 04/23	Experiment #15	Lab Report #11
13 <sup>th</sup> week TBA	Project Presentation	Lab Report #12

### **Make-up Policy:**

There will be one make-up lab session at the end of the semester if required. For those of you who have legitimate reasons of missing a lab will be eligible to take the make-up lab. If you miss a lab without any excuse and/or a legitimate reason, you will get a “0” for that lab and won’t be given a make-up.

### **Grading Policy:**

*Lab Reports: 60 %*

Both the content and the format of the report will be graded.

*Lab Performance: 10 %*

The way you perform the experiment, tackle the problems and answer the questions regarding the experiment.

*Project: 30 %*

Deliverables: report, presentation and a working design. All of the deliverables of the project will be graded.

### **Guidelines for Lab Reports**

You should answer ALL the questions in the experiment sheets and will also be required to turn in screen captures of ALL waveforms acquired. Following is a format that is recommended for the lab reports.

1. **Title:** Keep it short but descriptive. Names, Date, The School Name, Course Name, Who you are submitting it to.
2. **Abstract/Purpose:** This should be clear and concise. It shouldn’t be more than 200 words.
3. **Introduction:** What’s the motivation for conducting this experiment? Have a clearly stated objective. What do you wish to accomplish by doing this lab? How will you know if you succeeded? Mainly elaborate more on the Abstract section.
4. **Methods:** Describe what you did. What equipment was used? How was it set up? What measurements did you make? Use figures and diagrams if necessary.
5. **Results:** Present data you have collected in a well-organized manner that follows the flow of the procedure. Present the results of any data analysis that was performed. Use neatly drawn and labeled graphs and tables as needed. Did you achieve your objectives? How well or poorly did the experimental results agree with what you expected? What, if any, experimental problems did you encounter? How did you handle them?
6. **Conclusion:** Briefly summarize the experiment and your results. Try answering, What did you learn from this experiment?
7. **References:** List all sources (text books, papers, manuals, reports, etc.)

The reports should be brief but informative. Depending on the content, an ideal lab report should not exceed 3-4 pages. Any excessive data, which is irrelevant to the subject will not be graded and will not improve your grade in any way. Act wisely while picking up the data to present in your report. Make sure you address all the questions that are asked in the experiment sheets.

### **Academic Integrity**

This lab is designed for the students to complete their work individually. You are required to complete your designs on your own unless otherwise stated. Cheating of any kind, including receiving other's results, presenting their material as if they are yours and copying from other's designs, reports and presentations is strictly forbidden in this class and any such action will be interpreted as a violation of the "GWU Code of Academic Integrity". In case of violations, the cases will be reported to the department and the procedures described in the "GWU Code of Academic Integrity" will be initiated. Please refer to the following web site for a further understanding of the "GWU Code of Academic Integrity" <http://www.gwu.edu/~ntegrity/code.html>