

## EE 231L Syllabus

### Instructor / TAs

Dr. Hector Erives - Instructor  
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Office Hours: T/Th 9:00 - 10:00 in Workman 209

Help Hours: M 17:00 - 20:00 in Digital Lab

### Topics / Learning Objectives

The functionality of the DE0-Nano will be explored. Verilog code will be used to complete varying tasks by modifying I/O systems, creating arithmetic logic units, registers, and programming a microcomputer.

### Class Grade Breakdown

Lab Books:	65%
Prelabs:	15%
Final Report:	20%
<b>Total:</b>	<b>100%</b>

### Late Policy

Absences without prior notification will result in a failure for the lab assignment. For any special circumstances, an email must be sent to the lead TA in advance. Also, any pre-labs turned in 10 minutes past the start of lab will not be graded. Lab books will be due on **Wednesday by 12:00PM (Noon)** for Tuesday's lab session and **Thursday by 12:00PM (Noon)** for Wednesday's lab session. Late lab books will be docked 20%. However, the lowest lab grade will be dropped at the end of the semester. If all labs are completed before the final lab session, a make-up lab will be held to replace a lab grade.

### Lab Book Format and Expectations

The lab books consist of 5 sections: an Abstract, Background, Procedure, Results/Discussion, and Conclusion. Also, a signature from a TA is required to prove that the lab was completed. A brief description of the parts which go into each section is given on the next page.

The **Abstract** consists of 4 to 5 sentences and is used to summarize the entire report before it is read. The first sentence describes the purpose of the laboratory exercise, then the main part of the procedure is given, next the results are summarized, and finally a concluding sentence.

The **Background** can be varying lengths but it must give information which another engineer will need to understand your report, which usually includes explaining new topics specific to the current lab.

The **Procedure** briefly describes the lab exercise so that you can repeat it at a future time with only your lab book. It is best to briefly summarize each step.

The **Results/Discussion** includes specific things learned or designed which helped you finish the lab. Also, if any measurements were taken, they must be included and explained. Any questions posed by the lab must also be answered.

The **Conclusion** consists of 3 to 5 sentences and summarizes the purpose, methods used in completing the lab, results, and a concluding sentence.

### **Formal Report**

One formal report will be assigned at the end of the semester. The report will be on the topics covered in lab. More information will be given as the time approaches.

### **Safety**

Students are required to wear safety goggles when working with any electronic **hardware** devices.

### **Counseling & Disability**

The Counseling and Disability Services office is open to all students, free of charge. If counseling is needed or if you have a disability, contact the office by calling 575-835-6619, sending an email to [counseling@admin.nmt.edu](mailto:counseling@admin.nmt.edu), or by visiting the office located in the Fidel Center 1st floor through the NW side of the building.

### **Academic Honesty**

Teamwork is greatly encouraged for all lab assignments. All code must be individually typed, and cannot be copied. Lab books must be individually written, not typed, and any plagiarism will not be tolerated.

### **Emergencies**

In an emergency, call Campus Police at 575-835-5555 or dial 911.