Electrical and Computer Engineering
EE236 Microprocessor Systems Laboratory
John J. Helferty

Syllabus

Instructor: Dr. John Helferty

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(267) 312-3734
Office: 703d
Office Hours: Wed 1:00 – 2:00
Friday 1:00 – 2:00
Or by appointment

Textbook: Supplied Materials and Handouts

Prerequisites: EE 2612 Digital Circuit Design

Co-requisite: EE 3612 Microprocessor Systems

Expectations:

1. Be on time.
2. Be respectful to your classmates.
3. Be prepared for lab by paying attention in class.

Lab Grades:

Lab Report Average: 90%

Final: 10%

A: 100 – 90, B: 89-80, C: 79-70, D: 69 - 60, F: 59 – 0

If you have a problem with a grade, please come see me during office hours or make an appointment.

Lab Reports:

Lab reports must follow the set format shown below:

1. Cover page

2. Introduction
3. Formal Problem Statement
4. Procedure
5. Discussion
6. Conclusion
7. References
8. Appendix

Turning in Lab Reports:

1. You have a maximum of one week to turn in your lab report, unless stated otherwise.
2. Lab reports must be emailed to me (PDF or Word doc). Include class number, section number, and lab number in the title of your email (ex. EE 3613 Section 001 Microprocessors Lab 1).
3. You must email reports to me BEFORE your next scheduled lab time. For example, if your lab starts at 2:00 pm, the time on your email must be 1:59 pm or earlier. Anything later than that will be considered late.
4. 10 points are deducted from any report turned in within 24 hours after the due date. An additional 10 points are deducted each subsequent 24 hour period after the due date.
5. Any labs turned in later than 3 days after the due date will receive an automatic 0.
6. Special consideration will be given in the case of a documented emergency.

Schedule:

Lab 1: Soda Dispenser
Lab 2: Intro to Logicflex
Lab 3: Data Movement Instructions
Lab 4: Stack Operations
Lab 5: Subroutine Call and Return
Lab 6: Arithmetic Functions
Lab 7: Intro to Digiview and Flashlite
Lab 8: I/O Port Manipulation via x86 Assembly
Lab 9: I/O Port Manipulation via C
Lab 10: Logicflex BIOS Real Time Clock Functions
Lab 11: Seven Segment Display with Logicflex