

**EE313 Course Policy Statement**  
**Spring 2009**  
**Maj Gerald Caldwell, USMC**

I. **Introduction.** Welcome to EE313. This is an elective electrical engineering course offered to non-electrical engineers. This course will build on some of the principles introduced in EE302, EE332, and EE334. As an elective this course is intended to be an enjoyable experience for you as well as for me. The material covered in this course will enable you to better understand the digital world that has become so important to the global consumer.

EE313 is an “applications” course; as such I will work to keep our discussions focused on useful, real-world applications of the material we will study. It is difficult to fail my class, and likewise it is not easy to earn an A. If you follow my guidelines and pay attention in class, do the assigned work, and prepare for quizzes and exams, you will be rewarded. I further realize that you are in your final semester here at the Academy -- that said, I expect you to put forth the requisite effort to learn, understand, and enjoy the material. *I will not hesitate* to award an F in this course to anyone who has earned it.

II. **Objective.** The overall objective of this course is for you to understand and perform basic combinational and sequential logic design and to gain a basic understanding of microprocessor/micro-controller architecture and programming. This course is heavily dependent on laboratory work. The course syllabus lays out in detail the topics we shall cover in the course. Additionally, the course objectives specify the objectives for each lesson.

III. **Textbook.** The textbook for this class is ***Digital Electronics: a Practical Approach, Quartus II Edition***, by William Kleitz, Prentice-Hall, Upper Saddle River, New Jersey, 2006. Readings for each lesson are specified in the course syllabus. I expect you to have read the material **prior** to the lecture.

IV. **Contact Information.** Office: Maury Hall, Room 331  
Phone: (office) x3-6151  
Email: caldwell@usna.edu

V. **Schedule.** Section 4311 Monday, Wednesday, & Friday: 4<sup>th</sup> Period (RI075)  
Tuesday: 3<sup>rd</sup> – 4<sup>th</sup> Periods (RI008)

VI. **Calculators.** You may use any calculator of your choice in every class, lab, quiz, and exam. I will not allow you to share calculators during exams. You may not enter or reference any text in any mode of your calculator – doing so during an exam is considered an honor violation and will guarantee you a “F.”

VII. **Grades.** The breakdown for semester exams, the final exam, homework, quizzes, and labs will be graded as follows:

**EE313 Final Grade**

Exams (#1, #2):	40%
*Final Exam:	20%
Homework:	10%
Quizzes:	10%
*Lab notebook:	20%
Total:	100%

**NOTE:**

**I reserve the right to adjust your final grade based upon your overall course performance, which includes your preparation, effort, attitude, and participation.**

**\*Final Exam note:** If you score an “A” on the two semester exams, have completed ALL of your homework, and have an “A” on your lab notebook, you will not be required to take the final exam. In this scenario, your lab notebook will count as 40% of your final average.

**A. How to ensure you pass EE313.** The formula for success in this class is quite simple. Participate in class. Complete **all** the homework **on time**. The moment that you discover you do not understand let me know. I am available any time when I am not teaching, so please let me know how I can help you.

**B. Homework.**

1. Homework is assigned after each lecture in the syllabus and on the EE313 Web Page. It is due at the beginning of each class following its assignment and is **based on effort**. The deadline for homework will not be extended due to absence from class – PLAN AHEAD. Homework turned in late will receive NO CREDIT. Homework grade is calculated as follows:

$$HW\ Grade = \frac{\# \text{ submitted}}{\text{Total Assigned}} = \frac{\#}{35} \times 100$$

2. I strongly encourage you to take advantage of Midshipmen study groups. Collaboration on homework can enhance your learning and *I highly encourage it*. Remember that copying or duplicating is not authorized and is unacceptable! You can exchange ideas and methods of solving problems, but the numbers, equations, and calculations must be your own.

3. When working on the homework assignments they should be neatly completed with the problem number properly labeled and pages stapled together. All homework will be completed on **green engineering paper** available in the mid store. Be sure to use only the front side only and all answers should be boxed along the right side of the page with appropriate units included. Do not use multiple columns or sections -- spread your work out. **Always work in pencil**. Finally, please **BE NEAT!**

4. When submitting the homework assignments, at the top of the page must include the following information: **YOUR NAME** in the right section, your **SECTION NUMBER** below your name, and the **ASSIGNMENT** below that. An example is as follows:

		<b>Last Name, First Name</b>
		<b>Section #</b>
		<b>Name of the Assignment</b>

**C. Quizzes.** A 15-20 minute quiz will be given after advance notice at the beginning or end of the lab or class sessions. These quizzes will reinforce what I teach in class and are instrumental for you to success when it comes to the exams. My intent is to use this as a medium to prepare you for taking the exams. These quizzes may be either open or closed book.

**D. Labs.**

1. Labs will normally be due at the beginning of the class following our lab period. Ensure that you print the lab from the main EE313 class website BEFORE you come to class; it is not my responsibility to provide one for you.

2. The purpose of the lab is to help reinforce the material learned in class. No amount of theory adequately substitutes for real, hands-on experience. The labs for this course will be held in either RI075 or RI008.

3. The amount of time available for labs is limited, so proper preparation for them is essential. If you do not prepare, you are all but guaranteed not to finish on time. Your lab work will usually be an individual effort.

4. You will be required to maintain a lab notebook. The lab notebook will be used to document the outcomes of the exercises you perform in the lab. Detailed instructions for maintaining the lab notebook will be provided via separate correspondence.

**E. Exams.** There will be two mid-term exams and a Final Exam. The scheduling for the mid-term exams is listed on the course syllabus. Let me know in advance if you will not be able to attend a scheduled exam for any reason. *Unexcused absences will result in a grade of zero for that exam.*

## VIII. Administration.

### A. **Class Leader.**

1. I will select two members of the class to act as Class Leader and Assistant Class Leader. Both of you will be responsible for taking attendance and ensuring that the classroom and labs are left in an orderly fashion.
2. In the unlikely event that I am late or absent, contact the ECE Department office at 3-6150 after 10 minutes to let them know the situation. Expect, at the very least, to work on your homework, lab, and/or reading assignments. **DO NOT LEAVE EARLY.**
3. The section leaders will be responsible, in this case, to direct the class in a study period, collect all homework, and deliver it to my office at the end of the period.

### B. **Excusals.**

1. Exams and assignments missed due to emergencies may be made up. Emergencies include your own **death, war you are directly involved in, or rapture**; all other events are considered non-emergencies. Some common non-emergencies are elective surgery (PRK), MOs, or athletics. For non-emergencies, you will be required to turn in the missed material before you leave. Pay attention to the Commandant's List of priorities.
2. You must notify me prior to missing class if you will be absent. **Arranging for make-ups of Exams, Labs, Quizzes, and Homework is your responsibility.**

**C. Extra Instruction.** I am available throughout the day for appointments. Email, drop by, or call to ask for help. If you wait to seek my help until you are desperate, then it will defeat the purpose of the Extra Instruction. Extra Instruction does not mean extra work; we will sit down and work through examples together until you have grasped the key concept. If you make the effort, I will make myself available at any time. Making the effort means that you have specific questions when you arrive for EI.

### D. **Web-sites**

1. The EE313 course website can be reached from the internet as well as the intranet at:

<http://www.usna.edu/EE/ee313/>

### E. **E-Mail/Class Announcements.**

1. Be sure to check your USNA E-Mail at least twice a day, as this will be my primary means of contacting you outside of class.
2. Be sure to also check the course webpage as I will post announcements, solutions, worksheets, valuable links, and other information on it.

**F. Eating and Drinking in Lab/Class.** No eating or drinking permitted in the lab. Drinks are permitted in the classroom.

**G. Class & Lab Etiquette.** Besides normal military courtesy, I expect that you will treat your fellow students, lab techs, and me with common courtesy. A few specifics follow:

- *Clean up your lab station* prior to departure.
- The use of smart-phones, iPods, or any other cool electronic devices are not permitted during class or labs – no ear plugs or headphones!
- I expect you to be in the proper uniform, which includes a **regulation haircut and clean shave.**