DEPARTMENT: ELECTRICAL ENGINEERING

<table>
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<th>COURSE #: EEL 3003, 3 credit</th>
<th>COURSE TITLE: Introduction to Electrical Engineering</th>
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<tr>
<td>TYPE COURSE: Required</td>
<td>TERMS OFFERED: Fall, Spring, Summer</td>
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<tr>
<td>CATALOG DESCRIPTION: Intro to electrical engineering concepts for non-electrical engineering majors. Covers a broad range of current electrical engineering topics</td>
<td>PREREQUISITES: MAC 3112; PHY 2049C</td>
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<td>COREQUISITES:</td>
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EEL 3003 Introduction to Electrical Engineering

Course Objective: EEL 3003. Introduction to Electrical Engineering (3 credit hours). Intro to electrical engineering concepts for non-electrical engineering majors. Covers a broad range of current electrical engineering topics.

PREREQUISITES: MAC 3112; PHY 3049C. Presented in three modules:
- Module One: Basic Circuit Theory and Steady State DC Circuit Analysis
- Module Two: AC Circuit Analysis and First Order DC Transient Analysis
- Module Three: Diodes, Semiconductors, Op-Amps and Introduction to Computers

Instructor: W. R. Tucker, FAMU-FSU COE, Rm. B371. Phone: 410-6471 e-mail: wtucker@eng.fsu.edu

Office Hour: 11:30AM - 1:00PM Monday and Wednesday. Other times by appointment, only. If you go by my office, and the door is open, please feel free to drop-in. If my door is closed, then I am either with another student or I am not in. Please note that I work a full time job outside of the college. I will seldom be available except during the above times, unless you arrange an appointment ahead of time.


Attendance: If you don't attend my lectures, you will not do well in this class! See your respective University’s policy on attendance. It applies. Be on time. If you need to sleep, leave. You will be more comfortable somewhere else. Be attentive in class – don’t work on other assignments during my class. If you have a valid excuse (documented) for missing a class, you are still responsible for any work missed.

Exams & Quizzes: Three one-hour exams will be given in class throughout the semester. Makeup exams will NOT be given without prior written approval following the procedure outlined in the ECE Department letter on “EEL-3003 Makeup Examination and Procedure”, dated 28 August 2001. If you become aware that you are going to miss an examination, you need to see me as soon as you can. Missing an exam is very hard on us both. See your university’s policy on attendance, makeup work and exceptions to the examination policy. A comprehensive final exam will be given during the scheduled final exam period at the end of the semester. Short in-class quizzes and group problems will be completed periodically throughout the semester. The purpose of these quizzes and group problems is to encourage class attendance, to allow you to discuss the material with your classmates, and ultimately to enhance your comprehension of the material.

Grading: Your final grade for this course will be based upon your performance on homework, module exams, class participation and the final exam. I will use an absolute scale of A=100-90, B=89-80, C=79-70, D=69-60, F=59 or lower. Points will be accumulated in accordance with the following:

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<tr>
<th>Component</th>
<th>Percentage</th>
<th>Points</th>
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<tbody>
<tr>
<td>Homework</td>
<td>25%</td>
<td>25 Points</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
<td>5 Points</td>
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Exams 25% each = 75 Points
Final Exam 25% = 25 Points

Homework will be assigned and graded weekly. The number of points accumulated will be 25% of your grade.

Participation points are earned through class lecture and problem solving session attendance and “extra-credit”/quiz work that you might perform. The number of points accumulated will count for 5% of your grade.

The three planned module exams will account for 75% of your grade (25% for each) for the semester.

The comprehensive final exam will/can be used to replace a lower score that you may have achieved during the semester, if it is to your advantage to do that.

**Homework:** If you don’t do the homework, you will probably not do well in this class! The purpose of homework in this course is to give you practice in solving problems and to amplify concepts introduced in the lecture. Homework assignments (see schedule) are due at the beginning of class on the due date shown on the course schedule. *Late homework will not be accepted.*

I encourage you to discuss the general methods of working out the problems with each other. However, there is a fine line between comparing techniques and copying techniques. If you do not understand this distinction, please ask me. If you do discuss the general methods of solving a particular problem with another classmate, you should acknowledge that person by name at the beginning of your solution.

The following are mandatory guidelines for you to use in submitting your homework assignments. Since they are mandatory, if you fail to follow them, you may experience deductions from your homework grade, or even rejection of your submission:

Turn in homework assignments by the end of the class period that they are due. If you know you are going to be absent, you MUST turn in your homework assignment BEFORE the beginning of class to receive credit.

Write on one side of the page only. Solve only one problem per page. Number each page.

Put your initials on every page. Show all of your work, to substantiate your answer.

Box all final answers; double underline important intermediate results. Include units.

Be neat, make sure your paper is legible. Don’t use raggedy spiral notebook paper.

Staple your pages together correctly, and fold assignments lengthwise.

On the outside of your folded homework, write the following, with the fold to the left:

Your Name, Your last 4 EEL-3003 Homework # Date

The following are suggested guidelines for you to use in preparing your homework solutions. They are meant to help you organize your solutions and maximize your understanding of what you are doing.

State the problem. Include diagrams with labels. Solve the problem. Check your results.

Draw diagrams whenever possible, even when not requested in the problem. A diagram quickly summarizes the problem, and will be helpful when reviewing for exams.

Be neat! Remember, your homework is a presentation of your work. It should reflect the careful and deliberate thought process that you have gone through to create your solutions.

Keep a working notebook of your solutions, along with any posted solutions that provide. This will be a great study tool for exams, and could be useful in any discussions that we might have about your performance on a particular assignment.

**Homework Assignments** – Many of the homework assignments are taken from the Hambley text. Other assignments may be made throughout the semester at my discretion. All homework assignments will be posted on the course webpage. I will make solutions of these assignments available.
Homework Grading – Each homework problem will be given a grade of 0, 1, or 2. Zero’s (0) are for problems which are either not done or show no general understanding of the problem. A one (1) is for problems which show general understanding, but is missing a key aspect of the solution. Two’s (2) will be given to those problems which are essentially correct. You do NOT have to have an EXACT or PERFECTLY CORRECT solution to get a two. I will attempt to have the homeworks graded and returned to you as quickly as I can, but there are no guarantees. Make sure that you understand the published solutions.