

## **ENEE 381 ELECTROMAGNETIC WAVE PROPAGATION**

**Fall Semester 2002. Lecture Times: TuTh 12:30 - 1:45, EGR 3106**

Index Numbers: Section 0201 – 23457; Section 0202 – 23458

**Discussion Sections:** 0201 M 2-2:50, EGR 0108; 0202 F 2;2:50, JMP 1109

**Instructor: Professor Christopher C. Davis**, davis@eng.umd.edu,  
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**Office:** 2401 A.V. Williams Building, 405-3637

**Office Hours:** TuTh 9:20 - 10:50 am, and by appointment. I am generally available to talk with students when I am in my office.

**T.A.:** Suzanne Jeanette Hudak; sjhudak@glue.umd.edu. Attend your first discussion section for further details.

If you have a documented disability and wish to discuss academic accommodations with me, please contact me as soon as possible.

This course provides an overview of the essential concepts of electromagnetic waves needed for an understanding of fundamentals and devices, and as a foundation for further study.

Many homeworks in the class will require computer analysis. and graphical results presentation. I encourage the use of software such as Mathcad, Mathematica, or Matlab.

### **Examinations and Projects**

There will be two mid-semester examinations on dates to be decided later.

The final examination is in class on Friday, December 20, from 1:30-3:30.

Students in the class are required to honor the University of Maryland Code of Academic Integrity. Details of this code are available at the University's web site.

Anyone who misses an examination for a valid reason will be permitted to take a cumulative makeup examination just before the final examination.

### **Grading**

Mid-semester examinations 25% each, Final examination 40%, Homework 10%. Performance in homeworks will be the deciding factor in borderline cases. In addition, selected homework problems will appear on examinations. If you do not attempt the homework problems conscientiously, you will not do well in the class. I encourage team work in understanding the class material, but you must submit a final version of your own homework, worked out by you. Submission of an identical homework to that of another student is plagiarism, and will cause a subtraction of 2 percentage points from your final score for a first occurrence, and a greater reduction for a second offense.

### **Book**

*Fields and Waves in Communication Electronics*, by S. Ramo, J.R. Whinnery, and T. Van Duzer, 3rd. Edition 1994, John Wiley, New York.

You should already have covered most of the material from Chapters 1-4, and 7 in ENEE 380. I will provide a brief review of some basic concepts, and then will cover most of Chapters 5, 6, 8, 10 (Sections 1-5), and the beginning of Chapter 12 (if time permits).