Syllabus for Electromagnetic Applications  
ECE 3065 – Spring 2011

Class Description:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr Hrs</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE-3065</td>
<td>Electromagnetic Applications</td>
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<td>Greg Durgin</td>
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<td>Van Leer 341</td>
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</tbody>
</table>

ECE 3065 Electromagnetic Applications

In this course, we apply Maxwell’s equations to a number of interesting and useful applications. Subjects include advanced transmission line theory, radio wave propagation, waveguides, fiber optics, resonators, two-port analysis, and antenna theory.

Instructor: Greg Durgin  
Office: 507 Van Leer  
Office Hours: TBD  

E-mail: durgin@ece.gatech.edu  
Office Phone: (404) 894-2951  
Class Web Page: http://www.propagation.gatech.edu/ECE3065


Prerequisites: Students must have taken ECE 3025 and received a C or higher.

Grading:

15% Homework – Expect *approximately* 8 homework assignments over the course of the semester.

65% 2 Midterms and a Final Examination – There will be 3 in-class examinations (2 midterms and 1 final). The two highest examination scores will count 25% each toward the final class grade; the lowest score will only count 15% toward the final class grade.
20% Project – A class project will be assigned later in the semester and turned in the last week of class.

**Test Dates:**
see website

**Computer Usage:** The web will be used extensively in this class to disseminate homework assignments, lecture materials, and class announcements.

Some homework assignments may involve the use of Matlab™ software. Most students should have access to this software through a university computer lab or their own personal computing packages. If not, please inform the instructor.

**Tentative Lecture Topics:**
see website

**Honor Code:** The Honor Code applies to every aspect of this class, with only one noteworthy exception: student discussion of concepts and techniques for solving homework problems is permitted and even encouraged outside the classroom. However, *all submitted work must be original.*