
**Office Hours:** See method of delivery.

**Course Outline:** We will follow the notes rather closely. The material covered includes chapters 10 (review), 11, 12, 13, 14, 15. The topics are:

- Chapter 10: Faraday's Law (review)
- Chapter 11: Maxwell’s equations.
- Chapter 12: Electromagnetic waves and propagation
- Chapter 13: Reflection and transmission of plane waves
- Chapter 14: Theory of transmission lines
- Chapter 15: The Smith chart, impedance matching and transmission line circuits

**Grading:**

<table>
<thead>
<tr>
<th>Exam</th>
<th>Weight</th>
<th>Date</th>
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<tbody>
<tr>
<td>1st Exam</td>
<td>15%</td>
<td>(Tentative: Wednesday, June 27)</td>
</tr>
<tr>
<td>2nd Exam</td>
<td>20%</td>
<td>(Tentative: Wednesday, July 11)</td>
</tr>
<tr>
<td>3rd Exam</td>
<td>15%</td>
<td>(Tentative: Monday, July 23)</td>
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<tr>
<td>Homework</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td>35%</td>
<td>(optional, see below, on July 27)</td>
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</tbody>
</table>

**Note:** after the third exam, which will be given on or around the last week of the Semester, your initial grade will be computed using the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Exam</td>
<td>22.5%</td>
</tr>
<tr>
<td>2nd Exam</td>
<td>35%</td>
</tr>
<tr>
<td>3rd Exam</td>
<td>22.5%</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
</tbody>
</table>

**Note:** The first three exams will take place in LH-308 between 8:50 AM and 9:40 AM (50 minutes). The final exam will be in LH-308 between 8:00 AM and 9:40 AM on Friday, July 27
The initial grade will be communicated to you by e-mail. You then have the option of taking the final exam. There is no need to tell me what you want to do. If you take the final exam, I will re-compute the grade according to the first weights above. If not, your initial grade becomes your grade for the Semester. This option is designed so that students that do very well in term exams do not need to take the final whereas those that did not do well can still improve their grades. The final is comprehensive and will be given at the scheduled time.

**Homework:** Will be assigned Wednesdays, to be submitted on the following Monday. Homework will be corrected, graded and returned the following Monday (see below). Please note: this is a summer class and each week of classes is roughly equivalent to two weeks of regular semester classes. The homework will also be equivalent to two homeworks. You will have between Wednesday to the following Monday to do the homework. Because of the extent of the homework and the short period of the summer class the submission dates are firm.

**Supporting material:** Additional material will be made available on the website:
- Sample exams from previous years (with solutions)
- Summaries to Chapters 10 through 18
- A MATLAB suite of programs that demonstrates some of the principles discussed.

**Method of delivery and other details**
During Summer 2012, the course will be web-based. This means the following:
- The lectures will be available on line or for download on my website: [http://ee.asc3.uakron.edu/ida/](http://ee.asc3.uakron.edu/ida/) (navigate to the Electromagnetics II class to view and/or download the lectures)
- Prior to each scheduled lecture date, there will be two 50 minutes lectures available for viewing/downloading. This means that each week you will have to go through 6, 50 minute lectures. I will place all 6 lectures for the week on my web site on Saturday so you can download them before the week begins.
- These will be available until the next scheduled lecture. After that they will be removed from the web site.
- I will assign homework by e-mail using your University of Akron e-mail address unless you wish to use a different e-mail. If you do, send me an e-mail to that effect.
- Homework will be collected by the student assistant, graded and returned to you.
- Unfortunately, in this method of delivery, there will be no office hours (but see below). You can communicate with me at any time as follows:
  - Call me on skype from your computer: My skype name is nathanida
  - Send me an e-mail
    - Note: because I may not be in the country when you call there may be a time difference between Akron and where I may be. If that’s the case I will call you back as soon as practical. Make sure you leave contact information.
- I am also trying to have the class evaluation forms on line. However, since evaluations are managed by the Dean’s office, I will have to wait for their approval. Should this idea not be feasible, the evaluation forms will be given in class by the student assistant.
- Exams: the exams will be written by me and proctored by the student assistant in
the assigned class and assigned time. These exams will be scanned, e-mailed to me for grading and I will then send you the graded exam by e-mail.

Finally, I very strongly recommend that you schedule the viewing of the lectures and your work on homework so that you complete everything on time. The class is intense and the time short. If you fall behind it is difficult to catch up. For this reason alone, I will not accept late homework. The student assistant will be instructed to this effect. Please remember, we will have an exam every two weeks and the only way to prepare is by working continuously and steadily.

Feedback:

I ask that you give me as much valid feedback as possible so I can assess the effectiveness of this method of delivery from your point of view. I am particularly interested in what does not work well, how it can be changed and improved and, in general, in your impressions. Please do not wait until the end of the semester but rather, send me your comments as soon as possible so I can relate them with the material and perhaps introduce changes as we go. I will share with the class all comments (anonymously, of course), again for the purpose of soliciting the class’s input as a whole.