Instructor: Saibun Tjuatja  
Office hours for class: MWF 10 AM – 11 AM or by appointment  
Room 252B NH  
Phone: 817-272-3974  
Email: tjuatja@uta.edu  

Course Catalog: 3308. ELECTROMAGNETICS II (3-0) 3 hours credit. Time varying electric and magnetic fields, Faraday's law, energy in a magnetic field, displacement current, Maxwell's equations, transverse electromagnetic waves, plane waves in an unbounded medium, waves in media with planar interfaces, boundary conditions, reflection and transmission, plane waves in lossless and lossy media; electromagnetic waves in a bounded medium, guided waves, wave guides, propagation modes; transmission lines, circuit models of transmission lines, transmission line equations, reflection at discontinuities, terminations, transient response, steady state waves on transmission lines, open and short circuited lines, power flow, impedance matching and the Smith chart.


Prerequisite: EE2307 – Electromagnetics I

Grading: There will be home works, projects, three tests, and an optional final exam. If you have a question on grading of an assignment or a test, please contact me about your question within one week of the time the grade is received. The tentative weighting and grading scales are:

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<th>Weighting of scores</th>
<th>Scale for letter grade</th>
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<tr>
<td>Homworks and Projects</td>
<td>10%</td>
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<tr>
<td>Average of 3 highest test scores</td>
<td>90%</td>
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Tests: All tests will be comprehensive, close book and close notes. You are allowed to bring one sheet (three sheets for the final exam) of notes (8.5”×11”, both sides.) The use of calculator is allowed in the exam. No make up exam unless approval is obtained prior to the scheduled test date.

Assignments: You must turn in your own work, not copied from someone else’s. Please write (or print) legibly.
Important Dates:

Test #1: September 9, 2009 (W)
Test #2: October 14, 2009 (W)
Test #3: November 25, 2009 (W)
Final Exam: TBA; check with the advising office

Lecture Topics (plan): This course will cover topics from Chapter 7 through Chapter 9, and selected topics from Chapter 10 and Chapter 11 of the required text.

----------------------------------- NOTE -----------------------------------

If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are properly accommodated.

Student Evaluation Of Teaching

Students will be asked to complete instructor/course evaluation forms at the end of the semester.

Americans with Disabilities Act

The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112-The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act - (ADA), pursuant to section 504 of The Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens. As a faculty member, I am required by law to provide "reasonable accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.

Academic Dishonesty

It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22).

ANY CHEATING WILL RESULT IN SEVERE PENALTIES.