PHY 301
Electromagnetic Theory I
Fall 2015

Meeting Time and Place:  
Lecture: TuTh 10-11:20  ES131

Instructor:  
Prof. Eden Figueroa  
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Textbooks::  
Introduction to Electrodynamics, by D. J. Griffiths (Prentice Hall, Fourth Edition)

Grading:  
HW 10%, Quizes 20%, Midterm Exam 30%, Final Exam 30%, Experimental Project 10%

Projects:  
Experimental/numerical/theoretical comparison of electrodynamics problem.

Learning objectives
At the end of the term the student should have an understanding of the basic principles of the mathematical formulation of electrodynamics. The student should be able to solve problems using vector calculus regarding charge distributions and calculate their electric fields and potentials. Furthermore, the student should be comfortable calculating magnetic fields and vector-potentials based upon current distributions. Finally, the student should have a moderate understanding of Maxwell’s formulation of electrodynamics.

Schedule and assignments  
(check Blackboard regularly)

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