ECE-360: Electromagnetic Fields and Waves
Spring 2011

Instructor: Mani Hossein-Zadeh
Office hour: Monday 1-3 pm or by appointment
Office: Center for High Technology Materials (CHTM) 116A
Class meeting: Tuesday and Thursday, 9:30-10:45 am, ME, Room 300
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by Fawwaz T. Ulaby

Chapter- 1) Introduction
Chapter- 2) Transmission Lines
Chapter- 3) Vector Analysis
Chapter- 4) Electrostatics
Chapter- 5) Magnetostatics
Chapter- 6) Maxwell's Equations for Time-Varying Fields
Chapter- 7) Plane-Wave propagation
Chapter- 8) Wave Reflection and Transmission
Chapter- 9) Radiation and Antennas

Pre-requisites: PHYC 161 (Heat, Electricity and Magnetism), MATH 264 (Calculus III), ECE 213.
Background knowledge: Fundamentals of electricity and magnetism, Vector calculus, basic
differential equations, linear & complex algebra.

Home work
There will be one assignment due every Thursday (total of 13 assignments). Only one late
homework will be accepted for each student. At the end the assignment with lowest grade
will be dropped. Each homework has 50 points so your final homework score will be
(12×50)/3.

Final Grade
20 % - Home works
20 % - Midterm-1
30 % - Midterm-2
30 % - Final exam