

**ELC 3337 APPLIED ELECTROMAGNETIC FIELDS
SPRING 2009**

Lectures: TR 9:30-10:45, NVCC 4126

Instructor: Dr. Charles Baylis

Office: Rogers 300 C

Office Hours (subject to change): MW 10:30 – 12:00, TR 11:00 – 12:30, or by appointment

E-mail: Charles_Baylis@baylor.edu

Course Website: <http://web.ecs.baylor.edu/faculty/baylis> . Students are responsible to check this site frequently as it will be the primary out-of-class communication method.

Textbook: Fawwaz T. Ulaby, *Fundamentals of Applied Electromagnetics*, Fifth Edition, ISBN 0-13-241326-4.

Prerequisite: ELC 2430: Electrical Circuit Theory

Objective: The course provides an introduction to electromagnetic field theory through examination of static and dynamic electric and magnetic fields. The fundamentals of transmission line theory are explored. Maxwell's equations and boundary conditions are studied and applied in the solution of electromagnetics problems.

Grading: Three in-class exams will be given: the first two tests will be taken during the normal class period and the third exam will be a cumulative final exam. The format of these tests and specific dates will be announced in advance of the tests. Homework will be assigned for each lecture but will not be collected. A quiz will be given each Tuesday covering the material from the previous week. The lowest quiz score will be dropped.

Tentative Grading Breakdown:

Exam 1	25%
Exam 2	25%
Final Exam	30%
Quizzes	20%

A typical grading scale will be used:

90-100	A
80-90	B
70-80	C
60-70	D
Below 60	F

The plus/minus grading system will not be used.

Attendance: Students are expected to attend all lectures and laboratory sessions. Any student who has attended less than 75 percent of the class meetings will receive a grade of "F" in the course. Both excused and unexcused absences are used in this calculation.

Missed Assignments: If no arrangement is made in advance with the instructor, students missing a test or quiz may be given, at the option of the instructor, a zero on the test or assignment. Students anticipating the need to take a test or quiz at a time other than that scheduled or to turn in an assignment late must make arrangements with the instructor in advance. In an emergency where advance notification is impossible, appropriate documentation supporting the excuse should be provided.

Religious Events: Students who anticipate being absent from class due to a major religious observance must provide written notice of the date(s) and event(s) to the instructor by the second class meeting.

Registration: Assignments of students not on the official class roll will be discarded without grading.

Academic Dishonesty: No collaboration whatsoever is allowed on any of the tests or quizzes. Any student found in violation of this policy may be given a "FF" for the course at the option of the instructor and at minimum will be given a zero for the assignment. It is the responsibility of each student to understand and follow this policy.