ELC 3335 SIGNALS AND SYSTEMS
SPRING 2010

Lectures: TR 9:30 - 10:45, Rogers 106
Instructor: Dr. Charles Baylis
Office: Rogers 300C
Office Hours (subject to change): TR 11:00 – 12:00, TR 1:00 – 2:00 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.
Prerequisites: ELC 2430: Electrical Circuit Theory, MTH 2311: Linear Algebra, MTH 3325: Ordinary Differential Equations
Objective: The course provides an introduction to the analysis of signals and systems in the time domain using differential equations and convolution with the impulse response, and in the frequency domain using Fourier series, Fourier transforms, and Laplace transforms with transfer functions.
Grading: Two tests and a cumulative final exam will be given. 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. In addition, projects involving MATLAB or other software tools may be given from time to time.

Tentative Grading Breakdown:
Test 1 25%
Test 2 25%
Final Exam 30%
Quizzes/Projects 20%

A typical grading scale will be used:
90-100 A
88-90 B+
80-88 B
78-80 C+
70-78 C
60-70 D
Below 60 F

No minus grades will be given.

Attendance: Students are expected to attend all class meetings. 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:** Rules for academic honesty in this course are as follows:

- **Tests and Quizzes:** No collaboration whatsoever is allowed on any of the tests or quizzes.
- **Projects:** All projects are to be completed individually. Discussion of ideas and implementation methods is acceptable and encouraged; however, all programming, circuit design, and problem solving related to the projects should ultimately be completed individually.

Any student found in violation of this policy may be given an “F” 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.

**Computer Requirements:** All students should have access to a computer running MATLAB and Simulink. This software is available in the Rogers open-access computer laboratories. Use of software programs may be required to complete projects throughout the semester.