

# EECS 700: Special Topics Implementation of Digital Communication Systems Fall 2008

## Schedule:

Lecture period: TR 1:00-2:15, 203 Joseph R. Pearson Hall (JRP)

Lab periods: W 6:00–8:00 pm (in Eaton 1005A) and R 3:00–5:00 pm (in Eaton 1005C)

## Instructor: Prof. Erik Perrins

Office: 2020 Eaton Hall

Office hours: TR 2:15-4:00 pm. Drop-ins at other times are always welcome but are best scheduled by e-mail.

Office phone: 864-7370/864-7770

E-mail: esp “at” eeecs.ku.edu

## Teaching Assistant: Chowdhury Shahriar

Office: 2029 Eaton Hall

Office hours: M 2:00–4:00 pm and by appointment.

Office phone: 864-7382

E-mail: cshahria “at” ittc.ku.edu

Text: *Digital Communications: A Discrete-Time Approach*, by M. Rice, Prentice Hall, 2009.

Class web page: [http://people.eecs.ku.edu/~esp/class/F08\\_700/](http://people.eecs.ku.edu/~esp/class/F08_700/)

## Weekly Schedule, Reading and Homework Assignments

The weekly schedule, reading assignments, and homework assignments will be posted on the class web page well in advance of any due dates. You are expected to have read the assigned material for each lecture beforehand and pop quizzes on reading material will be given from time to time.

## Class Participation

Attendance at all class meetings is required. A portion of your final grade is dependent on class participation. As such, your attendance and participation can have a direct impact (positive or negative) on how well you do in the course.

## Homework

Homework will be due most Thursdays and must be submitted at the EECS Front Desk (2001 Eaton Hall) before the end of the day. (The doors close at 4:30 pm, but don’t cut it too close!!) Late homework will be marked as “submitted” and will be graded but **no credit will be given**. Working within a study group is strongly encouraged but you must submit for grading only homework you have personally worked. You can expect that the assigned homework problems have been carefully chosen for their ability to “drive home” the concepts that have been covered in class and to prepare you for the exams. You can also expect that each problem has been worked by the instructor and is “do-able.”

## Laboratories/Simulink Exercises

A fun and exciting feature of this course is a progressive series of exercises that will be carried out in MATLAB's Simulink environment. These will be implementation and simulation problems for the digital communication concepts we cover in the lecture periods. The TA will give some additional instruction on these exercises at scheduled times, but these exercises, and the computers on which you can complete them, will be open and can be worked on at any time.

## Pop Quizzes

Pop quizzes will be given occasionally in class. The subject matter of these quizzes will be drawn from: (1) the reading assignment for that day, or (2) the topics covered in previous lectures.

## Exams

Two midterm exams will be given during the semester. These will cover material presented up to the exam time. The final exam will cover course material presented during the entire semester. I generally give exam problems that are more challenging than homework problems. **The final exam is scheduled for Tuesday, December 16, from 1:30-4:00, in JRP 203.**

## Grading

Homework and Pop Quizzes	(10%)
Simulink Exercises	(15%)
Midterms	(40%)
Final Exam	(30%)
Class Participation	(5%)

## Grading Scale

100-90:	A
89-80:	B
79-70:	C
69-60:	D
59- 0:	F

## Prerequisites

EECS 360 or the equivalent. (It is also helpful, but not prerequisite, if you have had EECS 461 or the equivalent.)

## Comments

- Cheating (receiving/giving help, or representing others' work as your own, etc.) will be penalized severely. Any behavior of this sort will be reported to the Associate Dean and will result in a zero for the particular item of work and might also result in an F for the course.
- Stop by during office hours to visit about course materials, personal concerns, career plans, or anything else. Questions about homework presuppose that you have made a diligent attempt at all problems beforehand. Only hints will be provided; no worked out solutions of assigned problems before they are due.
- We will move at a quick, uniform pace. I assume that you are all mature, motivated students, and will look after your own best interests. If you are unclear on the subject matter, or are falling behind for any reason, I expect you to talk to me before it becomes a serious problem. FYI, approaching me with a problem after the final exam has been taken is an example of waiting too long.
- Bonus points may be awarded for outstanding performance on the final and other exams.
- Student with disabilities or special needs should see me immediately for accommodations.
- Changes announced in class supersede these written instructions.