EECS 664 Introduction to Digital Communication System

Department of Electrical Engineering and Computer Science
University of Kansas
Class Information
Spring 2018

Schedule: MWF 10:00-10:50 at LEA 1131

Instructor: Prof. Taejoon Kim
Office: 3020 Eaton Hall
Office hours: WF 11:00 – 12:00 am or by appointment via e-mail.
Office phone: 785-864-7378
E-mail: taejoonkim@ku.edu

Precursors: EECS 360 (Signal and System Analysis) and EECS 461 (Probability and Statistics)
Course Webpage: http://www.ittc.ku.edu/~tjkim/eeecs664IntroDigitalComm.html and Course Blackboard

Homework Assignments
Multiple homeworks which will be collected, graded, and returned to you along with a copy of the solutions. Homework is due at the beginning of the class on the date indicated.

You could consult with your colleagues, but you are only allowed to discuss about the homework problems orally. That is, students are not allowed to use paper and pen, a computer, a white/black board, a tablet, etc. The final write-up of homework must be your own. Once found copied solutions, both the copier and original provider will be forced to zero score.

Being able to handle and solve the homework questions will be a significant part of your evaluation. This means the design of exam questions will be largely based on the homework questions.

Midterm and Final Exams
Two in-class one-hour midterms
and
the final exam (Scheduled for Thursday, May 10, 7:30 – 10:00 am) will be given. All exams will be closed book. The final exam will cover course materials presented for the entire semester.

The midterm schedule will be announced two weeks before the test. The material that the exam tests for will be discussed before the exam (i.e., review sessions).

Class Attendance and Participation
Attendance at all class meetings is required. I, as a course instructor, am not obliged to impose the attendance. However, your attendance and participation can have a positive impact on how well you do in the course.
**Modus of Lecture**
I prefer to writing on the white board. Occasionally, I will show stunning pictures and figures via the projector.

**Inappropriate Behavior**
I will not tolerate any inappropriate behavior during the class.

Cheating will be penalized severely. Any behavior of this sort will be reported to the Associate Dean and will result in an F grade for the class.

Please refrain from chatting to each other during class. I encourage you to ask open questions.

**About Prerequisites**
Courses in communications are, in general, senior level subjects and require rich knowledge in signals and systems as well as probabilities. In fact, the field of communication engineering was pioneered by many mathematicians. It sometimes involves mathematical abstraction, algebraic derivation and understanding.

It is fine even though you are not really trained in such a field. When required, we will review and go through mathematical tools. We will often derive a long sequence of equations to explain underlying principles. I will do my best to deliver the main idea and detailed steps.

**Simulink Exercises**
A series of exercises designed to be carried out in MATLAB’s Simulink environment will be given. These will be implementation problems for the digital communication concepts covered in the lectures. These exercises can be conducted on any computers (e.g., labs in the department) on which MATLAB is installed.

**Assessment**

- Homework : 15%
- Simulink Exercises : 20%
- Midterms : 40%
- Final exam : 25%

**Grading Scale**

- 100-85: A
- 84-75: B
- 74-65: C
- 64-55: D
- 54- 0: F

**Remarks**
It is highly encouraged to stop by during the office hours to discuss course materials, homework questions, personal concerns, research directions, career paths, etc. Especially, if you have any subject matters or you feel you are behind for any reason, you have to approach to me and have a personal conversation before it becomes very serious.

All the written instructions here are subject to changes based on our discussion during class.