

EECS 769: Information Theory

Fall 2018

Schedule:

Lecture period: MWF 12:00–12:50, 3153 Learned Hall

Instructor: Prof. Erik Perrins

Office: 2054 Eaton Hall

Office hours: MWF 10:00–12:00. Drop-ins at other times are always welcome but are best scheduled via e-mail.

Office phone: 864-7770

E-mail: `esp@atku.edu`

Text: *Elements of Information Theory*, by T. M. Cover and J. A. Thomas, Wiley-Interscience, Second Edition, 2006.

Class web page: http://people.eecs.ku.edu/~perrins/class/F18_769/

Daily Schedule, Reading and Homework Assignments

The daily 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.

Class Participation

Attendance at all class meetings is required. Your attendance and participation can have a direct impact (positive or negative) on how well you do in the course.

Homework

All homework is to be submitted at the very beginning of the period it is due. Late homework will be marked as submitted but not graded. 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.

Projects

A number of projects will be assigned during the semester. Some will be large, some will be small, all will be fun.

Research Report

There are far too many topics in this area than can be covered in a one semester course. Some of the topics we can't squeeze in will instead be divided among the class, researched as individuals (or pairs), and reported in oral and written form.

Exams

Two midterm exams will be given during the semester. These will cover material presented up to the exam time. The homework problems and projects will prepare you for the problems on the exams, but you can expect the exam problems to be more difficult.

Grading

Homework	(10%)
Projects	(25%)
Research Report	(15%)
Exams	(50%)

Grading Scale

90.0–92.9:	A–	93.0–100:	A		
80.0–82.9:	B–	83.0–86.9:	B	87.0–89.9:	B+
70.0–72.9:	C–	73.0–76.9:	C	77.0–79.9:	C+
60.0–62.9:	D–	63.0–66.9:	D	67.0–69.9:	D+
		0–59.9:	F		

Prerequisites

Undergraduate probability course such as EECS 461 or MATH 526.

Comments

- Cheating [receiving/giving help, or representing others' work as your own, etc.] will be penalized severely. **This includes submitting HW solutions from the solutions manual as if they were your own.** 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 class.
- Stop by during office hours to visit about course materials, personal concerns, career plans, or graduate school. 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. Seek to become self-reliant, including checking your solutions. Homework solutions will not be distributed but instead are available in my office.
- 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.