

Math 5270 - Algebraic Coding Theory

Fall 2010

4:30 pm - 5:45 pm TR, in SENG B138

Instructor: Zak Mesyan
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Office Hours: 3:20-4:20 TR, and by appointment

Information About The Course

Here's the official course description: The basic ideas of the theory of error-correcting codes are presented. We will study some important examples and give applications. These codes are important for the digital transmission of data. Prerequisite: Math 4140.

Web Page. <http://www.uccs.edu/~zmesyan/teaching.html>

Book. *A First Course in Coding Theory*, by Raymond Hill, Oxford University Press.

Homework. On most Thursdays a problem set will be assigned, and it will be due in a week. The assignments will be posted on the course web page (see above) and announced in class. When doing the homework assignments, you may work with other students in the class and ask me for hints, but do not seek help from anyone else. If you do an assignment with another student, indicate this on your paper. In any case, the assignments should be written up individually, in your own words (and not copied from anyone or anywhere else).

Participation. Given the small size of this class, it is vital that everyone attends each class. Frequent undocumented absences will result in a reduced grade. Also, each week we will devote some class time to discussing the homework problems. Each student is expected to periodically volunteer to present a problem on the board.

Grading. The final grade will be determined as follows:

Homework - 90%

Participation - 10%

Important Dates.

September 6 - No class (Labor Day)

November 25 - No class (Thanksgiving)

December 8 - Last class