

Syllabus for MAT 148, Winter 2016

Course Description

The course is dedicated to the basic concepts of error-correcting codes, examples (Hamming, BCH, cyclic codes) and underlying mathematical structures (groups, finite fields). It covers chapters 1-5 of the textbook. The first midterm covers chapters 1-2.3, the second midterm covers chapters 2.4, 3 and 4. The final is cumulative and covers all the material in the course. The detailed course information can be found at the course website:

<http://www.math.ucdavis.edu/~egorskiy/MAT148-w16>

Textbook

The textbook for the course is “Introduction to the Theory of Error-Correcting Codes” by Vera Pless (3rd edition).

Exams

Midterms will be given in class on January 29 and February 26. There will be NO MAKE-UP EXAMS. The Final will be on Thursday, March 17, 6:00-8:00 pm.

Office hours

Instructor: Eugene Gorsky, egorskiy@math.ucdavis.edu

Office hours: MWF 10-11am at Math 2113.

Grading Policy

Homework 20%, Midterm I 20%, Midterm II 20%, Final 40%.

Homework Policy

The paper homework problems will be posted on the course website. The completed homework should be handed in before the start of Monday lecture (or an indicated due date, if it is different). Late homework will not be graded. All paper homework solutions must be stapled (no paper clips) and have your name and section number. Please write your solutions legibly; the grader may disregard solutions that are not readily readable.

Disability Services

Any student with a documented disability who needs to arrange reasonable accommodations must contact the Student Disability Center (SDC). Faculty are authorized to provide only the accommodations requested by the SDC. If you have any questions, please contact the SDC at (530)752-3184 or sdcc@ucdavis.edu.