

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
DEPARTMENT OF MATHEMATICS

COURSE DESCRIPTION - SPRING 2013

MATH 413 INTRODUCTION TO COMBINATORICS

Sections C13 and C14: 10:00-10:50 MWF, 413 Altgeld Hall

Instructor: Bernard Lidický, 222 Illini Hall, 244-5468, lidicky@illinois.edu

Web page: <http://www.math.uiuc.edu/~lidicky/413/>

Office hours: 11:00 - 12:00 AM MW

Final Exam: 8:00-11:00 AM, Tuesday, May 8 2013

The aim of this course is to give an introduction to finite mathematics, like enumerations, sieve method, designs and other symmetric configurations, (no or very little about graphs). We emphasize techniques, but also present proofs of theorems. We will follow the textbook.

PREREQUISITES: MATH 347 or MATH 348; or equivalent

TEXT: **R. A. Brualdi: Introductory Combinatorics (5th edition)**

REQUIREMENTS: There will be roughly 10 homework assignments, three exams during semester and a final exam. The weighting is homework 30%, midterms 45% and final 25%. Grades thresholds are 90% for A-, 80% for B-, 70% for C- and 60% for D-. Below 60% is F.

4 CREDITS: One has to register (soon!) in the Math Office at Altgeld to take 4 credits.