

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN  
DEPARTMENT OF MATHEMATICS

## COURSE DESCRIPTION - SPRING 2012

### MATH 413 INTRODUCTION TO COMBINATORICS

**Sections C13 and C14: 11:00-11:50 MWF, 141 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 MWF

Final Exam: 8:00-11:00 AM, Tuesday, May 8 2012

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 80% for A-, 70% for B-, 60% for C- and 50% for D-. Below 50% is F.

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