

MAD 4203: Introduction to Combinatorics 2

Spring 2025

Instructor: Kevin Keating

Office: Little 482

Telephone: 352-294-2311

E-mail: keating@ufl.edu

Office hours: Mondays and Wednesdays 9:30–11:00, or by appointment.

Meeting Times

MWF 11:45–12:35 in Little 235

Textbook

A Walk Through Combinatorics (Fourth Edition) by Miklós Bóna

I don't recommend the Kindle version, which may render some symbols incorrectly.

Syllabus

This course covers some basic topics in combinatorics, including Ramsey theory, the probabilistic method, partially ordered sets, block designs, and error-correcting codes. These topics can be found in chapters 13, 15, 16, and 17 of the textbook.

Homework

I will assign homework problems each week to be collected and graded. Solutions to these problems will be distributed after the homework has been collected. Late homework will not be accepted. I will also assign some homework problems which will not be collected or graded. You should certainly do these problems as well, since exam questions may be based on them.

Exams

Friday, February 14 (in-class)

Friday, March 28 (in-class)

Tuesday, April 29, 3:00–5:00 (final)

Grading

The homework will count 20%, each in-class exam will count 20%, and the final will count 40%. Your class average x will be converted into a letter grade as follows:

$90 \leq x \leq 100 : A$	$85 \leq x < 90 : A-$	$80 \leq x < 85 : B+$
$75 \leq x < 80 : B$	$70 \leq x < 75 : B-$	$65 \leq x < 70 : C+$
$60 \leq x < 65 : C$	$55 \leq x < 60 : C-$	$50 \leq x < 55 : D+$
$45 \leq x < 50 : D$	$40 \leq x < 45 : D-$	$0 \leq x < 40 : E$