

Introduction to Combinatorics II

MAD 4204

Spring 2023

Instructor: Zachary Hamaker
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Office Hours: Tuesday 1:00pm – 2:50pm or by appointment

Lecture: Period 7, 1:55 - 2:45 MWF
FLI 101

Text *A Walk Through Combinatorics* by Miklos Bona, with selections from other sources.

Course Objectives We will cover topics related to matchings, graph colorings, partial orders, block designs, error correcting codes and special topics with time permitting.

Homework We will have roughly weekly homework. Some assignments will contain a ‘Perfect Proof’, requiring a perfect solution and allowing multiple revisions.

Quizzes We will have three quizzes. They will focus on the most recent material, but math courses are necessarily cumulative so later quizzes will use techniques developed earlier in the course.

Project Every student will have the option of doing a project. Groups of up to three people are allowed. Doing a project means extra work, but does not guarantee any improvement in your grade. I only encourage you to pursue a project if there is a particular topic related to combinatorics that you are excited about.

Final Exam The final exam will have both in-class and take-home components. The in-class portion will be on April 26 while the take-home portion will be assigned April 29th. It will not be a collaborative endeavor.

Grading There are two grading schemes for this course, depending on whether or not you choose to do a project:

Without Project		With Project	
Homework	40%	Homework	30%
Quizzes	40%	Quizzes	30%
Final Exam	20%	Final Exam	20%
		Project	20%

The final grades will be curved, but will be no tougher than the 10-point scale: 90%-100% will be some form of A, 80-90% will be at least some form of B, etc. After each exam, you will receive a projected grade.

If you have a disagreement with the grading of one of your solutions, I ask that you submit a written request for reconsideration within one week of receiving the graded assignment.

Grades will adhere to the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Honor code	UF students are bound by The Honor Pledge which states, We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: On my honor, I have neither given nor received unauthorized aid in doing this assignment. The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.
Attendance	Attendance will not be monitored. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx .
Accommodations for students with disabilities	Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.
Online Evaluations	Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu . Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/ .
Students with Learning Disabilities	Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC), www.dso.ufl.edu/drc/ . That office will provide a documentation letter via email to your instructor. This must be done as early as possible in the semester, at least one week before the first exam , so there is adequate time to make proper accommodations.
Complaints	The official UF policy for filing a complaint about the course may be found at https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf .
Health and wellness	<p>U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website: https://umatter.ufl.edu/ to refer or report a concern and a team member will reach out to the student in distress.</p> <p>Counseling and Wellness Center: Visit the Counseling and Wellness Center website at https://counseling.ufl.edu/ or call 352-392-1575 for information on crisis services as well as non-crisis services.</p> <p>Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website at https://shcc.ufl.edu/.</p> <p>University Police Department: Visit UF Police Department website at https://police.ufl.edu/ or call 352-392-1111 (or 9-1-1 for emergencies).</p>