



Introduction to Combinatorics

MAD 4204 – 4563
Spring 2016

Time: MWF period 4
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Textbook: A Walk Through Combinatorics (third edition) by M. Bona

Office Hours: Monday, Wednesday, Friday – period 6
(or by appointment)

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Homework

Construct a pair of orthogonal matrices of order 4 (due Mon 11 Jan)
 $a \equiv b \pmod{n}$ if and only if a and b have the same remainder when divided by n .
Prove that, when p is prime, each pair of order p latin squares constructed in class are orthogonal. (due Wed 20 Jan)

Chapter 17 #1,2,3,5,8,9,24,26

Topics

Block Designs
Error Correcting Code
Partially Ordered Sets and Lattices
Graph Theory
Permutations
Polya Counting
Graph Theory
Probabilistic Method
Combinatorial Optimization
Computational Complexity

Messages

Welcome to second semester combinatorics

Free tutoring at the Teaching Center, SW Broward Hall. Check www.teachingcenter.ufl.edu for the time schedule.

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, 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.

The course will be conducted in accordance with the University honor code, [academic honesty policy](#), and policy regarding the use of copyrighted material.

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>.

Information on current UF grading policies for assigning grade points may be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

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/>.

Grades

[weekly problems](#)
[attendance](#)