MAD 4204 – 3214
Fall 2018

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Time: MWF period 7
Place: Little 125
Phone: 352-294-2339
Office: 438 Little Hall
Email: avince@ufl.edu

Textbook: A Walk Through Combinatorics
(4th edition) by M. Bona

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

Links

- homework
- topics
- messages
- grades
- cell phone policy

Homework

Page 3 #1-3 (due Wed. 28 Aug)
Page 46 #1-3,
Page 50 #1-3

Prove that (n+1 choose k) = (n choose k) + (n choose k-1).

How many ways are there to sample k labeled balls from an urn?
(order matters and order does not matter, with replacement and without)

Page 53 #1,3 (Due Fri. 30 Aug)

How many ways to place n balls in k cells?
(balls distinguishable and not, cells distinguishable and not, cells can be empty or not)

Page 81 #1

Topics

Enumeration
    permutations, combinations, compositions, partitions

    recurrence

    inclusion-exclusion

    generating functions

Graphs
    cycles and circuits

    trees

    matching

    planarity and coloring

Messages

Welcome to Combinatorics

Free tutoring at the Teaching Center, SW Broward Hall. Check Teaching Center for the time schedule.

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565) 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 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: attendance policies.

Information on current UF grading policies for assigning grade points may be found at: grades.

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations. 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

Homework: 10%
Three exams, each of equal weight:

Exam 1: Sept. 17
Exam 2: Oct. 29
Exam 3: Dec. 3

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