MATH 413 (Fall 2008): Introduction to Combinatorics

11:00 – 11:50 am MWF, 148 Henry Bld

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Web page: http://www.math.uiuc.edu/~jobal,
STUDY SESSIONs: Date and time to be discussed
(Official) Final Exam: 7:00 - 10:00 PM, Tuesday, May 12


Class Hours
What is Combinatorics (Sections 1.1, 1.2, 1.4, 1.5) 2
Pigeonhole (Ch. 2) 3
Permutations and Combinations (Ch. 3) 6
Binomial coefficients (Ch. 5 minus 5.7) 6
Inclusion-Exclusion (Ch. 6 minus 6.5) 4
Recurrence and generating functions (Ch. 7) 8
Special sequences (Catalan, Stirling) (Ch. 8 minus 8.4) 4
Combinatorial Designs (Ch. 10) 5
Exams and leeway 5
Total 43

REQUIREMENTS: There are 3 tests and weekly (about eight) homework assignments. Students registered for 3 credits should solve 5 out of 6 problems, who registered for 4 credits should solve all.
Each test is for 100 points. The final is for 200 points. There are weekly (about nine) popquizes, the score of the worse homework and the worse quiz is dropped. Each homework is for 25 points, each popquiz for 10 points. For class ACTIVITY (including attendance), (0 – 30) points might be assigned.

88%–A; 85%–A–; 81%–B+; 78%–B; 75%–B–; 71%–C+; 68%–C; 65%–C–; 60%–D;
The tests are evening exams, and instead some classes will be cancelled.
RESOURCES: Electronic mail is a medium for announcements and questions. Collaborative study sessions are offered weekly.