

# MATH 3012C Applied Combinatorics — 2005 Fall

**Lecture** MWF 12:05PM—12:55PM Skiles 268

## General Information

Instructor Sang-il Oum

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Office Skiles 106

Office Hours M 4:30PM–5:30PM or by appointment.

Textbook “Discrete and Combinatorial Mathematics”, 5th edition by Ralph Grimaldi.

This course will cover elementary techniques useful for discrete problem solving. These will include the pigeonhole principle, mathematical induction, counting methods, recurrence equations, graph theory, and related algorithms.

After successful completion of this course, you will be able to attack challenging problems by applying those techniques and, if they are solved, you will be able to write mathematically correct solutions.

## Grading

Grading 10% Homework, 60% Three midterms (20% each), 30% Final.

Midterm Exams Sep 16 (F), Oct 19 (W), Nov 14 (M)

Final Exam Dec 14, Wednesday 2:50PM—5:40PM

There will be no make-up exams. Exams will be “closed book”, “closed notes”. Calculators are not allowed in the exams. Don’t forget the Georgia Tech Academic Honor Code.

Homework Homework will be given (mostly) weekly in class with the due date. The assignment is due at the beginning of class on the given due date. You may collaborate with other students. But **homework should be written by yourself independently and you must understand your solution.** Only samples will be graded.