Combinatorics Homework Assignment 1

**HW 1, due Thursday Sept 5:**

1) Read the Discrete Math problems on my exam page. You don't have to solve them, though I recommend that, if you have the time. We'll probably go over some problems like these later in MAD 4203, so it's OK if a few look a bit mysterious now. But please write me a short note about any notation or vocabulary that you'd like me to go over.

2) Read most of Chapters 1.1 - 2.3; you can skim over sections 1.2-1.4, and you can delay Ch 2 a few days, if necessary. Do these problems, from Ch 1.8 (most have short answers in the back):

1-6, 20, 22, 28-31 and 34-36.

At a minimum, learn how to do all these before the first quiz - though it is unlikely you will see exact copies of the HW problems there. As usual, practice at least 50% more than the assigned list (but you do not have to hand these extras in), or until you have completely mastered the material.

**Quiz 1, Thursday Sept 12:** About 20-25 minutes, followed by a lecture.

This will cover HW 1 above, and my lectures through 9/5. I'll assume you've read Ch 2.3 by then, and that you understand the Discrete Math problems - at least the wording of them.

The quizzes may contain other kinds of questions, such as: True-False, state a definition, state/prove a theorem, etc. You can find my Calculus and Linear Algebra exams online, if you'd like to check my exam style. But MAD 4203 is mainly a problem-solving course, so I expect most of the quiz problems will be somewhat similar to your HW.

I may post more about Quiz 1 on the "Schedule" web page. If you spot any contradictions with this page, trust the newer "Schedule" page, and/or ask me.