MATH 213 Basic Discrete Mathematics
Sections B1 & X1 – Spring 2014
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Instructor: Yi Zhang 
Email: zhang397@illinois.edu
Office: B4 Coble Hall
Office hours: Monday 10-11AM & Wednesday 1-2PM

Section B1: MWF, 9:00-9:50 AM, 140 HENRY BLD
Section X1: MWF, 12:00-12:50 PM, 143 ALTGELD

Course information (homework and announcements): [https://learn.illinois.edu/](https://learn.illinois.edu/)

Schedule: This course covers many topics, and you have to be prepared to invest a substantial amount of time into the course. I intend to follow the following schedule closely, but I may deviate from it slightly on occasion, and the list below should therefore be only regarded as an approximation to what I will cover.

Chapter 1 (Foundations): Sections 1.1, 1.4
Chapter 2 (Basic Structures): Sections 2.1-2.3
Chapter 3 (Algorithms): Sections 3.1-3.3
Chapter 5 (Induction): Sections 5.1-5.2
Chapter 6 (Counting): Sections 6.1-6.5
Chapter 7 (Discrete Probability): Sections 7.1-7.3
Chapter 8 (Advanced Counting): Sections 8.1-8.2, 8.5-8.6
Chapter 9 (Relations): Sections 9.1, 9.3, 9.5
Chapter 10 (Graphs): Sections 10.1-10.8
Chapter 11 (Trees): Sections 11.1-11.5

Grading: Your course grade will be computed as follows.

- Homework ................................................................. 25%
- Each midterm ............................................................ 15%
- Final exam ................................................................. 30%

Homework: Homework assignments are collected each Wednesday during class. You may collaborate on homework, but each person should turn in a copy of the homework written on their own, exhibiting their own understanding of the problem. Please staple your homework, write your name and UIN. The solutions should be written neatly so that the grader should have absolutely no trouble understanding your argument and final answer. It is a good practice to copy the solution on a new sheet of paper after you have solved the problem on scratch paper. The grader is not required to grade any solutions which he/she has difficulty reading. Indicate your answers clearly, and show your work. Partial credit will be awarded based on work shown. In order to get full credit, your answers need to be correct and simplified. You need to explain in a comprehensible way how you obtained them.

Absolutely no late homework will be accepted. To deal with contingencies, the three lowest homework grades will be dropped from your grade. No homework will be accepted by email.

Not all homework problems will be graded. The grader may select a subset of problems to be graded each week. Therefore the maximum grades for each homework set is not determined yet, but note that a homework set with more problems weighs more than a set with less problems. After the grader records the grades in Moodle, I will adapt the maximum grades.
**Midterms:** The three midterms involve paper+pen calculations and therefore will be graded with partial credit. The three midterms will be held on **2/13**, **3/13**, and **4/17** at 7PM-8PM in the evening. The location will be announced before the midterms. Unless specified, calculators and notes of any kind are not allowed on any exams.

For missed midterms: If you have an emergency or a valid excuse, you need to notify the Emergency Dean, Office of the Dean of Students or me as soon as possible. You must explain what prevents you do so and must provide appropriate documentation (such as doctor’s note, funeral certificate, etc). In agreement with other class policies, no assignments or evaluations can be ‘made up’ after an absence, except in extenuating circumstances.

After grading, the midterm papers will be photocopied for the record.

**Final:** The final will be cumulative. The time and location will be announced.

**“How to get an A”:**

- Read the textbook and do the homework. (You paid an arm & a leg for it – might as well get some use out of it.) Reading the relevant section before class is optimal, but going through the book after lecture will definitely help.

- During lecture, pay attention and don’t necessarily concentrate on copying every letter from the blackboard; almost everything I cover will come from the text, so you already have very wordy set of notes for the lecture; if I cover something not in the book, I will be very explicit about it.

- After lecture, do the assigned problems. If possible, do this the same day of lecture when the material is still fresh. This serves two purposes: it ingrains the methodology and reasoning, and you will complete your homework in a smaller, more manageable chunks, rather than in one large torturous session late Tuesday night.

If you do the above things, then you will be very well-prepared for the exams.

**General policy:** I will only address emails using the University Email. No cellphones are allowed at any time in class. If you have lunch in class, please sit in the last row and keep it quiet. During exams, no calculators or notes are permitted during exams, no talking to other students and no electronic devices of any kind.

**Attendance:** You are expected to attend class regularly and you are responsible for your own awareness of any course policies and practices that are announced in class.

Check the university-wide policies for class attendance at [http://admin.illinois.edu/policy/code/article1_part5_1-501.html](http://admin.illinois.edu/policy/code/article1_part5_1-501.html)

**Academic Integrity:** I’d like to remind you of the university policy of academic integrity. I am a trusting person and will generally give a student the benefit of the doubt, but if I deem a situation as a blatant attempt to circumvent ethical standards, I will pursue appropriate actions at the university level.