

Instructor: Michael Pelsmajer (pelsmajer@iit.edu)

Contact me by email. I will also email you, so you need to check your hawk.iit.edu email frequently. (Really, you should set up your emails so that they all go to one account.)

Office Hours: *Flexible*. To arrange a meeting, talk to me before or after class, or send an e-mail with a list of convenient times. (You can also just stop by, and if I'm not too busy, I'm happy to talk.)

Office: Engineering 1 Building, Room 206 (312.567.5344 but email is usually better)

Required text: Kenneth H. Rosen, *Discrete Mathematics and Its Applications*, 6th or 7th Edition. You'll find that it helps to read lecture material before and/or after the lecture. This is a good reference book; I recommend that you keep it after the end of the semester.

Syllabus: In the 6th edition: sections 1.1-1.7, 2.1-2.4, 3.1-3.5, 4.1-4.4, 5.1-5.4, 6.1, 7.1, 8.1, 8.3, 8.5, 9.1-9.3; in the 7th edition: sections 1.1-1.8, 2.1-2.5, 3.1-3.3, 4.1, 4.3, 5.1-5.4, 6.1-6.4, 7.1, 8.1, 9.1, 9.3, 9.5, 10.1-10.3; with a small number of exceptions, and not in that order.

Class meetings: Mostly lectures, but occasional in-class group work. Attendance and participation is required, and you should come to class ready to learn. Awake, alert, and caught up on earlier material in the course, but it's also very helpful to read material before the lecture. I'm not suggesting that you need to figure out everything on your own—this is not an independent study course. Rather...

How to read material before a lecture: You should attempt to understand each thing you read, persisting until you either succeed or until you get stuck in a confusing point. You may realize that you need to review something from an earlier class: if so, do that. Finally, think a bit about the big picture and try to decide what is most important.

Now you are ready for class.

Hours & Location: Mondays, Wednesdays, Fridays 3:15pm-4:05pm in Perlstein Hall Room 109

Homework: Assignments will be posted on the class web page and/or given during class. You should do *all* the problems. Sometimes certain problems will not have to be written up and handed in (for various reasons: e.g., too easy, too tedious to write nicely, odd-numbered) but all of them are equally important.

Homework is not an exam; it is part of the learning process. You can work together with your classmates—in fact, I encourage you to do so! Odd-numbered problems have answers or hints in the back of the book; you can look at them. You can seek me out for help, in person or by email. (Emails should be clear and give all necessary details.) We also have a Teaching Assistant, Hansen Ha, who will have office hours.

Homework will be collected at the beginning of class each Monday (starting the second week of class). While you can discuss solutions with your classmates, when you are writing up your solutions, you must work alone. Homework must be written up nicely.

Students will be allowed to redo certain homework problems during the semester. These problems are due one week after that assignment is handed back to the class. A major goal of this course is to learn how to think and write with mathematical precision, and getting feedback and reworking solutions is how one can develop these skills.

There will usually be a short quiz at the beginning of class each Monday, which will be identical or similar to problems from the homework problems collected that day.

There will be two mid-term exams, held during regular class meetings, and a final exam which is scheduled by the registrar.

Grading scheme:

Attendance/participation is 10% of the grade. You start out with 10%. After the first three missed classes, each subsequent missed class deducts 1% from the final grade, up to 10%. Arriving late to class, or being semi-conscious (e.g., too tired to participate), counts as half a missed class. Exceptions will be made only for good reasons with appropriate supporting documents.

The the final exam is 30% of the grade and the mid-term exams are worth 20% each. Quizzes are 5% and ordinary homework is 10% of the grade.

The “redone” homework is counted separately: 5% is reserved for the best 5 of these answers. (If a student’s homework is so perfect that he/she needs to redo less than 5 problems over the course of the semester, then full credit will be given for the difference. If a student needs to redo 5 or more problems but does less than 5, then he/she gets zero credit for the difference.)

The grading scale will be no more strict than A:90-100%, B:80-89%, C:70-79%, D:60-69%.

Course web page: <http://math.iit.edu/~pelsmajer/Math230-Spring2013.htm> for more information.

Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources. The Center for Disability Resources (CDR) is located in 3424 S. State St., room 1C3-2 (on the first floor) in Life Sciences Room 218, telephone 312-567-5744 or disabilities@iit.edu.