

Time: Monday, Wednesday, and Thursday 9:00–10:00 p.m. (Block B)

Room: Goldsmith 101

Instructor:

Kiyoshi Igusa

Goldsmith 305

x6-3062

e-mail: [igusa@brandeis.edu](mailto:igusa@brandeis.edu)

Office Hours: MWR 11–12 and MW 1-2

Teaching Assistants: (???)

Web resources: As you can see we are starting with LATTE. If there are problems, we will go to alternate forms of communication.

Please feel free to experiment with LATTE. I may try to generate idle chatter to get started but you can ignore it. Let me know what you think about LATTE.

Textbook: *Mathematical Thinking: Problem-Solving and Proofs, 2nd edition* by John P. D'Angelo and Douglas B. West

Topics to be covered will include

Logic

Sets and functions

Mathematical induction

Graph theory

The real numbers

The purpose of this course is to develop the ability of students to read and write mathematical statements and proofs. We will start with the syntax of mathematical statement, proceed quickly to elementary logic and basic proof techniques. We will then study some fundamental concepts from various areas of mathematics, and read and write proofs of varying degrees of complexity.

This course satisfies the *writing intensive* requirement. The writing will be in the form of regular homework assignments, with revisions. For this course, it is not sufficient to get “the right answer”; the answers must also be well written. For each homework assignment 1/3 of the score will come from the original version of the homework and 2/3 will come from the revision. (Exceptions: The entire grade for the first assignment will come from the revision and the last two assignments will not be revised.) If your score for the first version of a homework assignment is at least 90%, you need not revise it, and you don't need to rewrite any problem for which you get full credit.

Late homework will be accepted with a penalty, up to one week after the due date. Homework more than one week late will not be accepted.

Grades will be based on homework, with revisions, two 1-hour quizzes (in class), and a final exam (scheduled by the registrar for this time block), weighted as follows:

Homework	50%	
Quizzes	10% each	Wednesday, Oct. 3 and Monday, Nov 12
Final Exam	30%	(as scheduled by registrar for block B)

Note that the homework is very important in determining your grade.

Homework policy: You may discuss the homework problems with other students in the class; however, if you do, you should write on your homework submission the students with whom you discussed the assignment. (You do not need to mention any help you received from the TA's or instructor.) **You may not copy the written work of another student or allow another student to copy your written work. What you submit should be your own work.**

*You are expected to be honest in all of your academic work. The University policy on academic honesty is distributed annually as section 5 of the Rights and Responsibilities handbook. Instances of alleged dishonesty will be forwarded to the Office of Campus Life for possible referral to the Student Judicial System. Potential sanctions include failure in the course and suspension from the University. If you have any questions about my expectations, please ask.*

**If you are a student with a documented disability on record at Brandeis University and wish to have a reasonable accommodation made for you in this class, please see me immediately. Please keep in mind that reasonable accommodations are not provided retroactively.**