Time: Tuesday and Friday, 11 a.m.–12:20 p.m. (Block H)

Room: TBA

Instructor:
Ira Gessel
Goldsmith 312
phone: x6-3060
e-mail: gessel@brandeis.edu
Office Hours: TBA

Teaching Assistants: TBA

There is a Latte page for this course that will have homework assignments and other information.


Topics to be covered will include
- Logic
- Sets and functions
- Proofs
- Mathematical induction
- The real numbers

The main goal of this course is to develop the ability of students to read and write mathematical proofs. An additional goal is to familiarize students with basic properties of the real numbers. We will start with 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. For this course, it is not sufficient to get “the right answer”; the answers must also be well written. On most homework assignments you will be given the opportunity to submit a revised version of some of the problems for additional points.

There is a Latte page for this course that will have more information about office hours, assignments, exams, and other documents.

Late homework will be accepted with a 25% penalty, up to one week after the due date. Homework more than one week late will not be accepted.

There will be weekly optional problem sessions in which we will discuss homework problems. The times will vary from week to week.
Grades will be based on homework, with revisions, an in-class midterm, several short quizzes, and a final exam (scheduled by the registrar for this time block), weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>45%</td>
</tr>
<tr>
<td>Midterm</td>
<td>13%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>32%</td>
</tr>
</tbody>
</table>

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.

Any use of the solutions manual for the textbook will be considered cheating.

You are expected to be honest in all of your academic work. The University policy on academic integrity is distributed annually as section 4 of the Rights and Responsibilities Handbook. Instances of alleged dishonesty will be referred to the Department of Student Rights and Community Standards (SRCS). 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.