

Frey 211

Monday, Wednesday 4:00 - 5:20

This syllabus contains the policies and expectations that the instructor has established for this course. Please read the entire syllabus carefully before continuing in this course. These policies and expectations are intended to create a productive learning atmosphere for all students. Unless you are prepared to abide by these policies and expectations, you risk losing the opportunity to participate further in the course.

Instructor: Dr. Peter Lin (bo-bo.lin@stonybrook.edu)

Office: Math Tower 3-116

Office Hours: Will be announced first week of class. Also check the math department website.

Grader: Junbang Liu (Junbang.Liu@stonybrook.edu)

Course Description

A basic course in the logic of mathematics, the construction of proofs and the writing of proofs. The mathematical content is primarily set theory, combinatorics and Euclidean geometry. There is considerable focus on writing. We will discuss logical language and operations, methods of proof, sets and functions, cardinality, and applications of these notions to number theory.

Important Dates

Exam Dates

- Midterm 1: March 4 in class
- Midterm 2: April 8 in class
- Final Exam : During Finals Week. Exact Date/Time/Location TBA.

Required Resources

- **Course Webpage:** Blackboard.
- **Lecture Notes:** Attend lectures regularly and take your own notes.
- **Textbook:** Peter J. Eccles, *An Introduction to Mathematical Reasoning*, Cambridge University Press. (Reading and homework assignments will be assigned out of this textbook. Make sure you can access a copy of the textbook.)

Course resources All course resources will be posted on Blackboard. It is your responsibility to check the website regularly. If I post something there I will assume that you will check it within 24 hours.

About Attendance

Attendance is highly encouraged. **Lectures may include material not in the textbook!** The lectures may also present material in a different order than in the textbook.

Graded Components

- **Homeworks** – 20% of course average. You must type your solutions using the template which I will upload to overleaf.com, and then submit them via GradeScope. There will be a homework assignment due most weeks. Homework assignments will be announced on blackboard.
- **Midterm Exams** – 40% of course average. There will be two 80 minute midterm exams in class. The exams will be scheduled during the course.
- **Final Exam** – 40% of course average. There will be one 150 minute final exam on the date scheduled by the university.

Your *course average* will be determined by a weighted average of the graded components above. Your *final grade* for the class will be based on your course average *and* on your participation.

Late Homework Policy

A student's homework assignment shall be considered late if it is not turned in to the instructor by the end of lecture on the due date. Late homework assignments will not be accepted.

Missed Exam Policy

No make-up exams will be given. If a student misses a midterm exam with documented evidence, then the student's final exam grade will be substituted for the missed midterm. A student must sit the final exam at the scheduled time in order to receive a passing grade in the class.

Classroom Policies

Students are expected to arrive to lecture on time and remain until the lecture is concluded. (Leaving early creates distraction and is disrespectful to the instructor and your fellow students.) Cell phones should be silenced for the duration of the lecture. Tablet and laptop computers should not be used during lecture, except for taking notes.

Disability Support Services

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services (631) 632-6748 or

studentaffairs.stonybrook.edu/dss/

They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website:

www.sunysb.edu/facilities/ehs/fire/disabilities

Academic Integrity

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at

www.stonybrook.edu/uaa/academicjudiciary/

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.

Syllabus Revision

The standards and requirements set forth in this syllabus may be modified at any time by the course instructor. Notice of such changes will be by announcement in class and changes to this syllabus will be posted on the course website.