

18.204 Undergraduate Seminar in Discrete Mathematics

László Miklós Lovász

Class time: Tuesdays and Thursdays, 1pm - 2:30pm

Instructor: László Miklós Lovász, 2-246A, <https://math.mit.edu/~lmlovasz>

Email: lmlovasz@mit.edu

Communication Specialist: Malcah Effron, <https://cmw.mit.edu/profile/malcah-effron/>

Website: https://math.mit.edu/~lmlovasz/204_sp_19.html

Goals: The goal of this class is to read and present papers on various topics in Discrete Mathematics, and learn how to effectively communicate mathematical ideas both in presentation and in writing. Each student will give two 35 minute chalkboard talks, write a term paper, and give a 20 minute slide presentation based on their term paper. The students will also do a peer review of other students' term papers. There will be two quizzes with questions submitted by other presenters. The presentations and term paper should discuss and summarize recent results around a single topic, though students can switch topics after the first talk. There will be 4 workshops in total, run by communication specialist Malcah Effron.

Presentations: Students should schedule a one hour practice session before the first presentation, attended by Malcah Effron and me. Students are also welcome to schedule a practice session before the second presentation. Students should schedule a mandatory practice session before the third (slide) presentation as well.

Term paper: Each student should complete a term paper on a topic in Discrete math, at least 10 pages long. The paper should be completed based on the following stages:

- Propose a topic by March 14
- Submit a draft for feedback from me by April 16
- Revise and submit a draft for review from peers by April 30
- Peer review the draft of two classmates' papers, due May 7
- Submit the final paper by May 16

Grading:

- 20% for each of the two chalkboard presentations (40% total)
- 25% for the term paper
- 15% for the slide presentation
- 10% for each quiz (20% total)

Attendance: If you miss your talk, or miss more than three classes, you will automatically fail the class. Exceptions will be granted for students who have a note from Student Support Services.

Resources

In addition to assistance from your peers and from me, help with presenting and writing is available from the communication specialist assigned to the course, Malcah Effron. General help with writing and presenting (not specific to mathematics) is available from MIT's Writing Center: <http://cmsw.mit.edu/writing-and-communication-center>

Student Support Services

If you are dealing with a personal or medical issue that is impacting your ability to attend class, complete work, or take an exam, please discuss this with Student Support Services (S^3). The deans in S^3 will verify your situation, and then discuss with you how to address the missed work. Students will not be excused from coursework without verification from Student Support Services. You may consult with Student Support Services in 5-104 or at 617-253-4861. Also, S^3 has walk-in hours Monday-Friday, 10-11am and 2-3pm.

Student Disability Services

MIT is committed to the principle of equal access. Students who need disability accommodations are encouraged to speak with Kathleen Monagle, Associate Dean, prior to or early in the semester so that accommodation requests can be evaluated and addressed in a timely fashion. Even if you are not planning to use accommodations, it is recommended that you meet with SDS staff to familiarize yourself with the services and resources of the office. You may also consult with Student Disability Services in 5-104 or at 617-253-1674. If you have already been approved for accommodations, please contact me early in the semester so that we can work together to get your accommodation logistics in place.