Mathematics 2602: Linear and Discrete Mathematics
Section L, Fall 2011, Georgia Institute of Technology
http://www.math.gatech.edu/~margalit/classes/math2602

Professor

Prof. Margalit, Skiles 221, *margalit@math.gatech.edu*, (404) 894-2715.

Class Meetings

Lectures are Tuesdays and Thursdays, from 3:05 until 4:25 pm in Howey Physics Building, room L2.

Required Text

Linear and Discrete Mathematics, Special edition for the Georgia Institute of Technology.

Office Hours

Tuesday and Wednesday from 1:00 to 2:00, and by appointment.

Homework and Quizzes

Homework will be assigned on the course web site. It will not be collected or graded. The quizzes will consist of problems that are similar to homework problems. The lowest quiz score will be dropped.

Sections

Section	CRN	Classroom	Teaching Assistant	Email	Office
L1	81801	Skiles 255	Geehoon Hong	geehoon@math.gatech.edu	Skiles 146A
L2	81794	Skiles 246	Ke Yin	kyin@math.gatech.edu	Skiles 161
L3	82416	Skiles 169	Yun Gong	ygong@math.gatech.edu	Skiles 145

You must go to your assigned section. TA office hours will be announced on the course web site.

Grading

Your grade will be computed using one of the following schemes, whichever is higher.

	Scheme 1	Scheme 2
Quizzes	10%	10%
Midterm exams	60% = 20% + 20% + 20% (all 3 exams)	40% = 20% + 20% (best 2 of 3 exams)
Final exams	30%	50%

Honor Code

All students are expected to abide by the student honor code: *http://www.honor.gatech.edu*

Calendar and Tentative Syllabus

August 22 *First day of class*	**23** *5.1 Induction*	**24**	**25** *5.2 Recursive sequences*	**26**
29	**30** *5.3 Recurrence relations*	**31** *Quiz*	**Sep 01** *5.4 Recurrence relations*	**2**
5 *Labor Day*	**6** *8.1 Algorithms*	**7** *Quiz*	**8** *8.2 Complexity*	**9**
12	**13** *6.1-6.2 Counting*	**14** **First Midterm**	**15** *6.3 Counting*	**16**
19	**20** *7.1 Permutations*	**21** *Quiz*	**22** *7.2 Combinations*	**23**
26	**27** *7.3 Probability*	**28** *Quiz*	**29** *7.4 Probability*	**30**
Oct 03	**4** *7.5-7.6 Repetition, derangements*	**5** *Quiz*	**6** *7.7 Binomial theorem*	**7**
10	**11** *9.1-9.2 Graphs*	**12** **Second Midterm**	**13** *9.3 Graph isomorphism*	**14** *Last day to drop with W* *Last day to elect pass/fail*
17 *Fall Break*	**18** *Fall Break*	**19** *Fall Break*	**20** *10.1-2 Euler/Hamilton cycles*	**21**
24	**25** *10.4 Shortest paths*	**26** *Quiz*	**27** *12.1-2 Trees*	**28**
31	**Nov 1** *12.1-2 Trees*	**2** *Quiz*	**3** *12.3 Minimal spanning trees*	**4**
7	**8** *13.1 Planar graphs*	**9** *Quiz*	**10** *13.2 Coloring graphs*	**11**
14	**15** *2.1 Echelon form*	**16** **Third Midterm**	**17** *2.2 Solving linear systems*	**18**
21	**22** *7.1 Eigenvalues/vectors*	**23** *Quiz*	**24** *Thanksgiving Break*	**25** *Thanksgiving Break*
28	**29** *7.2 Diagonalization*	**30** *Quiz*	**Dec 01** *II.1-2 Linear programming*	**2**
5	**6** *II.3 Simplex method*	**7** *Quiz*	**8** *II.4 Linear programming*	**9** *Last day of class*
12	**13** **Final Exam** **11:30-2:20**	**14**	**15**	**16**

All dates are subject to change. Any changes will be announced in class and on the course web site.

No makeup exams or quizzes will be given.