

Graph Theory, Math 428,
Tuesdays and Thursdays in ARC 204 from 3:40-4:20.

Professor: Angela Gibney

Email: angela.gibney@gmail.com

Office hours are Wednesdays from 9 am to 10 am, in HLL 230, and by appointment.

Course topics: We will sample a number of topics from the theory of finite linear graphs including colorability, connectedness, tournaments, eulerian and hamiltonian paths, orientability, with an emphasis on applications.

Text (in the book store): I'll use A First Course in Graph Theory, by Gary Chartrand and Ping Zhang.

Lectures	date	chapter and section
1, 2	(01/22, 01/24)	1.1, 1.2, A1, and A2
3, 4	(01/29, 01/31)	1.4, A3, 2.1, 2.2
5, 6	(02/05, 02/07)	2.3, 3.1, 3.2
7, 8	(02/12, 02/14)	4.1, 4.2, 4.3
9, 10	(02/19, 02/21)	Midterm 1 (Tuesday review; Test Thursday)
11, 12	(02/26, 02/28)	5.1, 5.2, 5.3
13, 14	(03/05, 03/07)	5.4, 6.1, 6.2
15,16	(03/12, 03/14)	7.1, 7.2
no lecture	(03/19, 03/21)	spring break
17, 18	(03/26, 03/28)	8.1, 8.2
19, 20	(04/02, 04/04)	Midterm 2 (Tuesday review, Test Thursday)
21, 22	(04/09, 04/11)	9.1, 10.1, 10.2
23, 24	(04/16, 04/18)	10.3, 11.1, 12.1
25, 26	(04/22, 04/25)	13.1, 13.2
27, 28	(04/30, 05/02)	catch up and review for the final exam.

Homework and quizzes Homework will be assigned weekly and collected on Thursdays starting the second week of class. Three homework scores will be dropped. The average of the remaining scores will determine 20% of your grade. I will also give occasional quizzes, which will account for 5% of your grade.

Exams There will be a total of 3 exams given during the course: 2 midterms and one final exam. Each exam score will determine 25% of your grade.

Grades are based on homework (20%), quizzes (5%), Tests 1, 2, and the Final exam (which each count for 25% of your grade).

Do well in class: (1) Read the book before you come to class; (2) Do a little bit of homework every day (don't lose your place); (3) If you are confused, ask questions; (4) Pay attention during lecture: no email, etc during class.

Academic Honesty You may work on problems together in class and outside, but everyone must be able to do the problems on their own for quizzes and for exams. Cheating won't be tolerated.