

MATH 613 Graph Theory, Fall 2019

Syllabus

Lectures: 11:10am–12:25pm, Mon, Wed. Blocker 205B.

Instructor: Chun-Hung Liu, Blocker 631B, chliu@math.tamu.edu.

Office hours: 2:00pm–3:00pm Mon, 11:00am–12:00pm Thu, or by appointments.

Course webpage: <https://www.math.tamu.edu/~chliu/teaching/fall19math613.html>

Textbook: “Introduction to Graph Theory”, 2nd edition, by Douglas B. West. Prentice Hall, ISBN 0-13-014400-2.

Course Description: This course is an introductory course for graph theory. Topics include walks, trees, connectivity, matching, planar graphs, extremal graph theory and graph coloring. We will cover most of sections in Chapters 1-6 and some sections in Chapters 7 and 8 in the textbook.

Learning outcomes: The objective of this course is making students excel in basic notions and techniques in graph theory. Upon successful completion of this course, students will have the abilities to explore advanced or related topics in graph theory.

Prerequisites: MATH 431 or equivalent.

Grading policy:

- Homework assignments (50%).

There will be (almost) biweekly homework assignments. Practicing is the best way to absorb the materials covered in lectures. Collaboration and discussion for homework assignments are allowed, but you must write down the solutions on your own and submit your own copy.

- Midterm exam (20%): **October 7 Monday**. In class.
- Final exam (30%): **Take-home**.

No collaboration or discussion are allowed for the midterm and final exams. No late assignment or exam will be accepted except for university approved excuses. Deadline and detailed instructions will be included in the problem sheet of each assignment and exam.

For the final semester grade, students who get **90%-100% of points will be an A, 80%-90% of points will be a B, 70%-80% of points will be a C, 60%-70% of points will be a D, and an F for otherwise**.

Grades record will be frequently updated at the course website at eCampus. You are required to frequently check the correctness of the grades record posted there. Requests for record correction or regrading for any question in assignments should be made by the end of the lecture after it is returned.

The deadline for requesting regrading midterm or final exams will be announced when the grading is complete.

Attendance policy: Attending lectures is expected. See student rule 7 (<https://student-rules.tamu.edu/rule07/>).

Make-up policy: Make-ups for missed exams will be given only if the absence is due to university approved excuses. Based on university rules, all absence notifications should be sent to the instructor in writing no later than the end of the next working day after the absence (and prior to the absence if possible). The make-up should be done within one week after you return school. Details about university approved excuses can be found in student rule 7 (<https://student-rules.tamu.edu/rule07/>).

Scholastic dishonesty: *“An Aggie does not lie, cheat or steal, or tolerate those who do.”* You are required to obey the Honor Code. Cheating in any form is not acceptable. See student rules and <http://aggiehonor.tamu.edu/> for more information about scholastic dishonesty.

Copyright: All printed handouts and materials posted at the websites for this course are protected by US Copyright Laws. It is not allowed to share these materials with any person not enrolled in this class.

Americans with Disabilities Act (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information visit <http://disability.tamu.edu>.

Title IX and Statement on Limits to Confidentiality:

Texas A&M University and the College of Science are committed to fostering a learning environment that is safe and productive for all. University policies and federal and state laws provide guidance for achieving such an environment. Although class materials are generally considered confidential pursuant to student record policies and laws, University employees – including instructors – cannot maintain confidentiality when it conflicts with their responsibility to report certain issues that jeopardize the health and safety of our community. As the instructor, I must report (per Texas A&M System Regulation 08.01.01) the following information to other University offices if you share it with me, even if you do not want the disclosed information to be shared:

- Allegations of sexual assault, sexual discrimination, or sexual harassment when they involve TAMU students, faculty, or staff, or third parties visiting campus.

These reports may trigger contact from a campus official who will want to talk with you about the incident that you have shared. In many cases, it will be your decision whether or not you wish to speak with that individual. If you would like to talk about these events in a more confidential setting, you are encouraged to make an appointment with the Student Counseling Service (<https://scs.tamu.edu/>).

Students and faculty can report non-emergency behavior that causes them to be concerned at <http://tellsomebody.tamu.edu>.