Instructor: Dr. Wasin So, MH418, wasin.so@sjsu.edu, www.math.sjsu.edu/~so

Office Hours: MW 9:00–11:00, and by appointment via email.

Catalog Description: Advanced topics in modern graph theory selected by instructor. Possible topics are algebraic graph theory, random graph theory, matroid theory, Ramsey theory, expander graphs, and others.

Prerequisite: MATH 279A or instructor consent.


Objective: To help students acquire knowledge on an important topic in modern graph theory: expander families. After the course, students should feel comfortable in reading articles of current research in related areas.

Homework: Students are expected to spend 9 hours per week to study and do homework. Specific exercises from the text and additional exercises will be assigned (check an online homework handout frequently). Students are required to write up their own solutions on paper submitted for grading.

Presentation: Students are required to give a talk on a project (see presentation handout) at the end of the semester.

Course Grade: Written homework weighs 60%, presentation weighs 25%, class participation 15%. Your letter grade will be based on the standard scale: 90 – 100 is A; 65 – 89 is B; 40 – 64 is C; and 0 – 39 is F.

Attendance: Attendance is strongly encouraged even though grades may not directly be affected by attendance. Indeed, students are responsible for all the lecture notes and handouts in case of missing class.

Academic Integrity: Your own commitment to learning, as evidenced by your enrollment at San Jose State University, and the University’s Academic Integrity Policy requires you to be honest in all your academic course work. Faculty are required to report all infractions to the Office of Judicial Affairs. The policy on academic integrity can be found at http://www2.sjsu.edu/senate/S04-12.pdf.

Americans with Disabilities Act: If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities register with DRC to establish a record of their disability.