

**San Jose State University**  
**Department of Mathematics, College of Science**  
**Fall 2009**  
**MATH 179, Introduction to Graph Theory**  
**MW 13:30–14:45, MH 235**  
**SYLLABUS**

**Instructor:** Dr. Wasin So, MH418, so@math.sjsu.edu, [www.math.sjsu.edu/~so](http://www.math.sjsu.edu/~so)

**Office Hours:** Mondays 10:15–10:30, 11:45–12:30 & 14:45–16:45;  
Wednesdays 10:15–10:30 & 11:45–12:30; and by appointment.

**Catalog Description:** Hamiltonian and Eulerian properties, matching, trees, connectivity, coloring problems and planarity. Emphasis on algorithms and applications, including optimal network flows.

**Prerequisite:** Math 42 and Math 129A (with a grade of "C-" or better in each), or instructor consent.

**Required Text:** *A Friendly Introduction to Graph Theory* by F. Buckley and M. Lewinter.

**Objective:** To provide students with a foundation in the basics of graph theory, and to equip them with graph theory tools to analyze real world problems.

**Homework:** You are encouraged to try as many exercises in the text as possible. Some exercises from the text will be collected for grading. (See homework handout for details.) There are 9 homework sets to be turned in, and the best 8 will be counted toward your grade. Discussion among fellow students is allowed, but each student must turn in his/her own copy.

**Exams:** There are 2 tests and 1 final:

Test 1	10/7/2009 (W)	chapters 2 – 5
Test 2	12/2/2009 (W)	chapters 6 – 10
Final	12/14/2009 (M)	comprehensive

Each test has six questions and lasts for 75 minutes. The final has ten questions and lasts for two hours and 15 minutes. **NO MAKE-UP IS AVAILABLE** (don't even think about it).

**Course Grade:** Homework weighs 20%, tests totally weigh 40%, and final weighs 40%. Your letter grade will be based on the standard scale: 90 – 100 is A; 80 – 89 is B; 70 – 79 is C; 60 – 69 is D; and 0 – 59 is F.

**Attendance:** Attendance is strongly encouraged even though grades may not directly 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.