

San Jose State University
Department of Mathematics, College of Science
Fall 2009
MATH 42, Discrete Mathematics, section 1
MW 9:00 – 10:15, MH 323
SYLLABUS

Instructor: Dr. Wasin So, MH418, so@math.sjsu.edu, 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: Sets, logic, methods of proof including mathematical induction, functions, relations, elementary combinatorics, probability, Boolean algebras.

Prerequisite: MATH 19 or MATH 19A (with a grade of "C" or better) or eligibility for Math 30 or 30P.

Required Text: *Discrete Mathematics and its Applications, 6th Ed* by K. Rosen.

ISBN: 0072880082 and website:

http://highered.mcgraw-hill.com/sites/0072880082/information_center_view0/

(See calendar handout for sections covered.)

Objective: To introduce students to mathematical proofs, techniques, and terminology, and to begin developing mathematical sophistication.

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 11 homework sets to be turned in, but only the best 10 homework sets will be counted toward your grade. Discussion among fellow students is allowed, but each student must turn in his/her own copy. NO LATE HOMEWROK IS ACCEPTED. Answers will be posted right after due dates.

Exams: There are 3 tests and 1 final:

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|--------|--------------------------|---|
| Test 1 | 9/23/2009 (W) | sections 1.1 – 1.6 and 2.1 – 2.4 |
| Test 2 | 11/2/2009 (M) | sections 3.4 – 3.6, 4.1, and 5.1 – 5.3 |
| Test 3 | 12/2/2009 (W) | sections 6.1 – 6.4, 8.1, 8.5, and 11.1–11.2 |
| Final | 12/14/2009 (M) 7:15–9:30 | comprehensive |

Each test has six questions (each with several parts) and lasts for 75 minutes. NO MAKE-UP IS AVAILABLE. (Don't even think about it.) Answers will be posted right after test dates. Only the best 2 tests will be counted toward your grade. The final has ten questions and lasts for two hours and fifteen minutes.

Course Grade: Homework weighs 10%, tests totally weigh 40%, and final weighs 50%. 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.

Technology: Calculator is allowed in this course including all the exams.

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.