Instructor: Dr. Wasin So, MH418, wasin.so@sjsu.edu, www.math.sjsu.edu/~so
Office Hours: MW 10:15–12:15 and by appointment via email.

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 or 30PL.

(See calendar handout for sections covered.)

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

Homework: Students are expected to spend 6 hours per week to do as many exercises in the text as possible. Students are also required to register on the website of McGraw-Hill Connect (http://connect.mheducation.com/class/w-so-spring-2019-math42-section1), and to finish in a timely manner some online homework. This homework will be counted toward the course grade.

Exams: There are 3 tests and 1 final:

<table>
<thead>
<tr>
<th>Test</th>
<th>Date</th>
<th>Time</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>2/25/2019 (M)</td>
<td></td>
<td>sections 1.1 – 1.7 and 2.1 – 2.4</td>
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<tr>
<td>Test 2</td>
<td>3/27/2019 (W)</td>
<td></td>
<td>sections 4.1 – 4.3, 5.1 – 5.2 and 6.1 – 6.3</td>
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<tr>
<td>Test 3</td>
<td>5/8/2019 (W)</td>
<td></td>
<td>sections 7.1 – 7.2, 9.1, 9.5, and 12.1–12.2</td>
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<tr>
<td>Final</td>
<td>5/16/2019 (Thur) 7:15–9:30</td>
<td></td>
<td>comprehensive</td>
</tr>
</tbody>
</table>

ALL tests and final are closed book and closed note. Each test has five 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 (each with several parts) and lasts for two hours and fifteen minutes.

Course Grade: On-line homework weighs 15%, best 2 tests weigh totally 40%, and final weighs 45%. Your letter grade will be based on the following scale:

\[
100 \geq A+ \geq 94 > A \geq 90 > A- \geq 87, \\
87 > B+ \geq 84 > B \geq 80 > B- \geq 77, \\
77 > C+ \geq 74 > C \geq 70 > C- \geq 67, \\
67 > D+ \geq 64 > D \geq 60 > D- \geq 57, \\
57 > F.
\]
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.