Instructor: Dr. Scott Gordon, 324 Boyd
Office Phone: 678-839-4134
E-mail: sgordon@westga.edu

Time and Location: MW 3:30–4:45 in 206 Boyd.

Office Hours:

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<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>M</td>
<td>11:00–12:00, 2:00–3:30</td>
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<td>T</td>
<td>11:00–12:30, 1:30–2:00</td>
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<td>W</td>
<td>11:00–12:00, 2:00–3:30, 5:00–6:00 (in 205)</td>
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<td>not on campus</td>
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<td>F</td>
<td>11:00–12:00</td>
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If you would like to see me but cannot come at any of these times, please make an appointment.


Course Topics: Logic (propositions, connectives, conditionals, quantifiers), mathematical proofs, number theory, set theory, mathematical induction, relations, functions, cardinality of sets.

Homework Exercises: Problems assigned after each lesson will be divided into two categories: exercises and turn-in problems. Exercises will not be graded and are designed to help you understand the important concepts and prepare for the tests.

Turn-in problems: There will be approximately 150 points worth of turn-in problems assigned during the semester. You may work together on these problems, but your final answers must be in your own words and reflect an understanding of the problems. If a problem is turned in late, 20% of its point value will be deducted from your grade for each day past the due date.

Tests: There will be five 1-hour tests worth 80 points each. The test dates are 9/2, 9/28, 10/19, 11/9, 12/2. If you miss less than three classes during the semester, your lowest test score will be dropped.

Rescheduling Tests: If you have a valid reason for missing a test, you may be allowed to reschedule, but you must make arrangements with me in advance.

Final: There will be a cumulative final exam worth 160 points on 12/11, 2:00–4:00.

Grading: Your numerical grade will be your total points (on turn-in problems, tests, and the final) as a percentage of the total number of possible points. Your letter grade will be determined according the following grading scale: A: 88–100, B: 76–87, C: 64–75, D: 52–63, F: 0–51.

Withdrawal: October 6 is the last day to withdraw from the course with a grade of W.

Honor Code Violations: Any student who violates the University of West Georgia Honor Code (as stated in the Student Handbook) will receive an F for the course. The incident will also be reported to the Vice President’s Office and become part of the student’s record at UWG.

Learning Outcomes: The student will be able to

1. Use truth tables to analyze propositional forms
2. Rewrite propositions using logical connectives and quantifiers
3. Construct basic mathematical proofs using definitions of number theory, set theory, functions, and relations
4. Construct proofs using mathematical induction
5. Compare sizes of infinite sets using the concept of cardinality.