## Abbreviated Weekly Schedule*

To summarize, the assignments and initial posts of discussions are due by 11:59 pm (PST) on Sundays and the final posts of discussions and quizzes on materials covered in the prior weeks are due by 11:59 pm (PST) on Wednesdays (except week 10). Please make sure that you have submitted the assignments, discussion responses, and quizzes via Canvas.

*This schedule is subject to change. Changes, if necessary, will be updated here and posted via Canvas/Piazza announcements.

<table>
<thead>
<tr>
<th>Week</th>
<th>Course Topics (followed the 5th edition of the required textbook)</th>
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| #1   | Assignments due: [January 10, 2021](#)  
      Syllabus Quiz due: [March 12, 2021](#) |  
      • Chapter 2: Section – 2.1 Logical Form and Logical Equivalence  
      • Chapter 2: Section – 2.2 Conditional Statements |
| #2   | Assignments due: [January 17, 2021](#)  
      Canvas discussion due (initial post): [January 17, 2021](#)  
      Canvas discussion due (final post): [January 20, 2021](#) |  
      • Chapter 3: Section -(3.1 to 3.2) Predicates and Quantified Statements  
      • Chapter 5: Section - (5.1 to 5.2) Sequences and Summations |
| #3   | Assignments due: [January 24, 2021](#)  
      Quiz 1 due: [January 27, 2021](#) |  
      • Chapter 4: Section – (4.1 to 4.5) Direct Proof and Counterexample  
      • Chapter 4: Section – 4.7 Indirect Argument: Contraposition  
      • Chapter 4: Section – (4.7 to 4.8) Indirect Argument: Contradiction and Two Classical Theorems |
| #4   | Assignments due: [January 31, 2021](#)  
      Canvas discussion due (initial post): [January 31, 2021](#)  
      Canvas discussion due (final post): [February 03, 2021](#) |  
      • Chapter 6: Section - 6.1 Set Theory: Definitions and Element Method of Proof  
      • Chapter 6: Section – (6.2 to 6.3) Properties of Sets and Disproofs, Algebraic Proofs |
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| #5   | Assignments due: February 07, 2021  
      | Quiz 2 due: February 10, 2021  
      | - Chapter 5: Section - (5.2 to 5.3) Mathematical Induction: Weak Induction  
      | - Chapter 5: Section - 5.4 Strong Mathematical Induction |
| #6   | Assignments due: February 14, 2021  
      | Canvas discussion due (initial post): February 14, 2021  
      | Canvas discussion due (final post): February 17, 2021  
      | - Chapter 5: (Section - 5.6, 5.7, and 5.9) Recursive Definitions |
| #7   | Assignments due: February 21, 2021  
      | Quiz 3 due: February 24, 2021  
      | - Chapter 9: Section-(9.2 to 9.3) Basic Counting Rules: Multiplication and Addition Rule  
      | - Chapter 9: Section-9.4 The Pigeonhole Principle |
| #8   | Assignments due: February 28, 2021  
      | Canvas Discussion due (initial post): February 28, 2021  
      | Canvas discussion due (final post): March 03, 2021  
      | - Chapter 9: Section- (9.2 and 9.5) Permutations and Combinations  
      | - Chapter 9: Section - 9.6 Combinations with Repetition Allowed |
| #9   | Assignments due: March 07, 2021  
      | Quiz 4 due: March 10, 2021  
      | - Chapter 1: Section-1.4 The Language of Graphs  
      | - Chapter 4: Section-4.9 Application: The Handshake Theorem  
      | - Chapter 10: Section-10.1 Connectedness: Trails, Paths and Circuits |
| #10  | Assignment due: March 12, 2021 (No late submission is allowed)  
      | Canvas Discussion due (initial post): March 10, 2021  
      | Canvas discussion due (final post): March 12, 2021  
      | - Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm |
| #Final Week | Final Quiz due: March 17, 2021 | Final Quiz :03/13/2021 – 03/17/2021 (Week 3 – Week 10) |