



CS 225_400: Discrete Structures in CS (Spring 2020)

Abbreviated Weekly Schedule:

To summarize, Assignments and discussions are due on Sundays and quizzes on materials covered in the prior weeks are due by Wednesdays. Please make sure that you have submitted the assignments and quizzes via Canvas.

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

Week	Course Topics (followed the 5 th edition of the required textbook)
#1 Assignments due: April 05, 2020 Syllabus Quiz due: April 08, 2020	<ul style="list-style-type: none"> Chapter 2: Section – 2.1 Logical Form and Logical Equivalence Chapter 2: Section – 2.2 Conditional Statements
#2 Assignments due: April 12, 2020 Canvas Discussion due: April 12, 2020 Quiz 1 due: April 15, 2020	<ul style="list-style-type: none"> 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: April 19, 2020 Quiz 2 due: April 22, 2020	<ul style="list-style-type: none"> 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: April 26, 2020 Canvas Discussion due: April 26, 2020 Quiz 3 due: April 29, 2020	<ul style="list-style-type: none"> 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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<p>#5 Assignments due: May 03, 2020 Quiz 4 due: May 06, 2020</p>	<ul style="list-style-type: none">• Chapter 5: Section - (5.2 to 5.3) Mathematical Induction: Weak Induction• Chapter 5: Section - 5.4 Strong Mathematical Induction
<p>#6 Assignment due: May 10, 2020 Canvas Discussion due: May 11, 2020 Quiz 5 due: May 13, 2020</p>	<ul style="list-style-type: none">• Chapter 5: (Section - 5.6, 5.7, and 5.9) Recursive Definitions
<p>#7 Assignments due: May 17, 2020</p>	<ul style="list-style-type: none">• Chapter 9: Section-(9.2 to 9.3) Basic Counting Rules: Multiplication and Addition Rule• Chapter 9: Section-9.4 The Pigeonhole Principle
<p>#8 Assignments due: May 24, 2020 Canvas Discussion due: May 24, 2020 Quiz 6 due: May 27, 2020</p>	<ul style="list-style-type: none">• Chapter 9: Section- (9.2 and 9.5) Permutations and Combinations• Chapter 9: Section - 9.6 Combinations with Repetition Allowed
<p>#9 Assignments due: May 31, 2020 Quiz 7 due: June 03, 2020</p>	<ul style="list-style-type: none">• 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
<p>#10 Assignment due: June 07, 2020 (No late submission is allowed) Canvas Discussion due: June 07, 2020 Quiz 8 due: June 10, 2020</p>	<ul style="list-style-type: none">• Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm