



CS 225_400: Discrete Structures in CS (Winter 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 Mondays (except week 10). 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: January 12, 2020 Syllabus Quiz due: January 13, 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: January 19, 2020 Canvas Discussion due: January 19, 2020 Quiz 1 due: January 20, 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: January 26, 2020 Quiz 2 due: January 27, 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: February 02, 2020 Canvas Discussion due: February 02, 2020 Quiz 3 due: February 03, 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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#5 Assignments due: February 09, 2020 Quiz 4 due: February 10, 2020	<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
#6 Assignment due: February 16, 2020 Canvas Discussion due: February 16, 2020	<ul style="list-style-type: none"> Chapter 5: (Section - 5.6, 5.7, and 5.9) Recursive Definitions
#7 Assignments due: February 23, 2020 Midterm Exam due: February 23, 2020	Midterm Exam: 02/19/2020 - 02/23/2020 (Week 1- Week 5) <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
#8 Assignments due: March 01, 2020 Canvas Discussion due: March 01, 2020 Quiz 5 due: March 02, 2020	<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
#9 Assignments due: March 08, 2020 Quiz 6 due: March 09, 2020	<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
#10 Assignment due: March 11, 2020 (No late submission is allowed) Canvas Discussion due: March 11, 2020 Quiz 7 due: March 12, 2020	<ul style="list-style-type: none"> Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm
# Final Week Final Exam due: March 18, 2020	Final Exam: 03/14/2020 – 03/18/2020 (Week 3 - Week 10)