



CS 225_400: Discrete Structures in CS (Winter 2022)

Abbreviated Weekly Schedule:

To summarize, the assignments, initial and final posts of bi-weekly discussions are due by 11:59 pm (Pacific Time) on Mondays, bi-weekly quizzes on materials covered in the prior weeks are due by 11:59 pm (Pacific Time) on Wednesdays, reply posts of discussions are due by 11:59 pm (Pacific Time) on Thursdays (**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/Ed Discussion announcements.

Week	Course Topics (followed the 5 th edition of the required textbook)
#1 Assignments due: January 10, 2022 Syllabus Quiz due: January 12, 2022	<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 17, 2022 7 Ubj Ug XjgW ggjcb'due fjb]hU'dcgt: January 17, 2022 Canvas discussion due (reply post): January 20, 2022 Canvas discussion due (final post): January 24, 2022	<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 5 ggj[ba Yb]g`Xi Y. January 24, 2022 Ei]n`i`Xi Y. January 26, 2022	<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: January 31, 2022 7 Ubj Ug XjgW ggjcb'due fjb]hU'dcgt: January 31, 2022 Canvas discussion due (reply post): February 03, 2022 Canvas discussion due (final post): February 07, 2022	<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 5 gg[[ba Yblg'Xi Y. February 07, 2022 Ei Jn'2'Xi Y. February 09, 2022	<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 Assignments due: February 14, 2022 Canvas discussion due (initial post): February 14, 2022 Canvas discussion due (reply post): February 17, 2022 Canvas discussion due (final post): February 21, 2022	<ul style="list-style-type: none"> Chapter 5: (Section - 5.6, 5.7, and 5.9) Recursive Definitions
#7 Assignments due: February 21, 2022 Quiz 3 due: February 23, 2022	<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: February 28, 2022 Canvas discussion due (initial post): February 28, 2022 Canvas discussion due (reply post): March 03, 2022 Canvas discussion due (final post): March 07, 2022	<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 07, 2022 Quiz 4 due: March 09, 2022	<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 Assignments due: March 11, 2022 (no late submission allowed) Canvas discussion due (initial post): March 07, 2022 Canvas discussion due (reply post): March 10, 2022 Canvas discussion due (final post): March 14, 2022	<ul style="list-style-type: none"> Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm
#Final Week Final Exam due: March 17, 2022	Final Exam: 03/13/2022 – 03/17/2022 (covers Week 3 – Week 10)