



CS 225_400/401: Discrete Structures in CS (Fall 2019)

Abbreviated Weekly Schedule:

To summarize, Assignments are due on Sundays and quizzes on materials covered in the prior weeks are due by Mondays (There will an exception in 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: October 06, 2019 Syllabus Quiz due: October 07, 2019	<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: October 13, 2019 Quiz 1 due: October 14, 2019	<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: October 20, 2019 Quiz 2 due: October 21, 2019	<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
#4 Assignments due: October 27, 2019 Quiz 3 due: October 28, 2019	<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

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#5 Assignments due: November 03, 2019 Quiz 4 due: November 04, 2019	<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: November 10, 2019 Quiz due: No quiz due to the midterm exam	<ul style="list-style-type: none">• Chapter 5: (Section - 5.6, 5.7, and 5.9) Recursive Definitions
#7 Assignments due: November 17, 2019 Quiz due: No quiz due to the midterm exam	Midterm: 11/09/2019 - 11/13/2019 (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: November 24, 2019 Quiz 5 due: November 25, 2019	<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: December 01, 2019 Quiz 6 due: December 02, 2019	<ul style="list-style-type: none">• Chapter 1: Section-1.4 The Language of Graphs• Chapter 10: Section-10.1 Connectedness: Trails, Paths and Circuits
#10 Assignments due: December 06, 2019 Quiz 7 due: December 06, 2019	<ul style="list-style-type: none">• Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm
# Final Week	Final Exam: 12/08/2019 – 12/12/2019 (Week 2 - Week 10)