



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