

CS 225_400/401: Discrete Structures in CS (Fall 2018)

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 4 th edition of the required textbook)
#1 (Starting from September 20, 2018) Assignments due: September 30, 2018 Syllabus Quiz due: October 1, 2018	Chapter 2: Section – 2.1 Logical Form and Logical Equivalence Chapter 2: Section – 2.2 Conditional Statements
#2 Assignments due: October 7, 2018 Quiz 1 due: October 8, 2018	<ul style="list-style-type: none"> • Chapter 3: Section -3.1 Predicates and Quantified Statements • Chapter 4: Section – (4.1 to 4.4) Direct Proof
#3 Assignments due: October 14, 2018 Quiz 2 due: October 15, 2018	<ul style="list-style-type: none"> • Chapter 4: Section – (4.6 to 4.7) Contraposition and Contradiction • Chapter 6: Section - 6.1 Set Theory
#4 Assignments due: October 21, 2018 Quiz 3 due: October 22, 2018	<ul style="list-style-type: none"> • Chapter 6: Section – (6.2 to 6.3) Set Operations • Chapter 5 : Section - 5.1 Sequences and Sums

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<p>#5</p> <p>Assignments due: October 28, 2018 Quiz 4 due: October 29, 2018</p>	<ul style="list-style-type: none"> • Chapter 5: Section - (5.2 to 5.3) Weak Induction • Chapter 5: Section - 5.4 Strong Induction
<p>#6</p> <p>Assignments due: November 4, 2018 Quiz due: No quiz due to the midterm exam</p>	<ul style="list-style-type: none"> • Chapter 5: (Section - 5.6 to 5.7) Recursive Definitions
<p>#7</p> <p>Assignments due: November 11, 2018 Quiz due: No quiz due to the midterm exam</p>	<p>Midterm : 11/04/2018 – 11/07/2018 (Week 1- Week 5)</p> <ul style="list-style-type: none"> • Chapter 9: Section-(9.2 and 9.3) Basic Counting Rules • Chapter 9: Section-9.4 The Pigeonhole Principle
<p>#8</p> <p>Assignments due: November 18, 2018 Quiz 5 due: November 19, 2018</p>	<ul style="list-style-type: none"> • Chapter 9: Section- (9.2 and 9.5) Permutations and Combinations • Chapter 9:Section - 9.6 Permutations and Combinations with Repetition
<p>#9</p> <p>Assignments due: November 25, 2018 Quiz 6 due: November 26, 2018</p>	<ul style="list-style-type: none"> • Chapter 10: Section-10.1 Basic Graph Definitions and Properties • Chapter 10: Section-10.2 Connectivity
<p>#10</p> <p>Assignments due: November 30, 2018 Quiz 7 due: November 30, 2018</p>	<ul style="list-style-type: none"> • Chapter 10: Section -10.7 Shortest Path Problem
<p># Final Week</p>	<p>Final Exam :12/02/2018 – 12/05/2018 (Week 1- Week 10)</p>