CS 225 : Discrete Structures in CS (Summer 2018)

Abbreviated Weekly Schedule:

To summarize, Assignments are due by each Sunday and quizzes on materials in the previous week are due by Monday. Please make sure that you have submitted the assignments 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 4th edition of the required textbook)
#1 **Assignments due:** July 01, 2018 **Syllabus Quiz due:** July 02, 2018	• Chapter 2: Section – 2.1 Logical Form and Logical Equivalence • Chapter 2: Section – 2.2 Conditional Statements • Chapter 3: Section -3.1 Predicates and Quantified Statements
#2 **Assignments due:** July 08, 2018 **Quiz 1 due:** July 09, 2018	• Chapter 4: Section – (4.1 to 4.4) Direct Proof • Chapter 4: Section – 4.6 Proof by Contraposition • Chapter 4: Section – (4.6 to 4.7) Proof by Contradiction
#3 **Assignments due:** July 15, 2018 **Quiz 2 due:** July 16, 2018	• Chapter 6: Section - 6.1 Set Theory • Chapter 6: Section – (6.2 to 6.3) Set Operations • Chapter 5 : Section - 5.1 Sequences and Sums
#4 **Assignments due:** July 22, 2018 **Quiz 3 due:** July 23, 2018	• Chapter 5: Section - (5.2 to 5.3) Weak Induction • Chapter 5: Section - 5.4 Strong Induction • Chapter 5: (Section - 5.6 to 5.7) Recursive Definitions

#5 **Assignments due:** July 29, 2018	• Chapter 9: Section-(9.2 and 9.3) Basic Counting Rules • Chapter 9: Section-9.4 The Pigeonhole Principle **Midterm : 07/26/2018– 07/30/2018 (Week 1- Week 4)**
#6 **Assignments due:** August 05, 2018 **Quiz 4 due:** August 06, 2018	• Chapter 9: Section- (9.2 and 9.5) Permutations and Combinations • Chapter 9:Section - 9.6 Permutations and Combinations with Repetition
#7 **Assignment due:** August 12, 2018 **Quiz 5 due:** August 13 , 2018	• Chapter 10: Section-10.1 Basic Graph Definitions and Properties • Chapter 10: Section-10.2 Connectivity • Chapter 10: Section-10.7 Shortest Path Problem
# Final Week	**Final Exam :08/12/2018 – 08/16/2018 (Week 1- Week 7)**