CS 225_400/401: Discrete Structures in CS (Spring 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 4th edition of the required textbook)
#1 Assignments due: **April 07, 2019** Syllabus Quiz due: **April 08, 2019**	Chapter 2: Section – 2.1 Logical Form and Logical Equivalence Chapter 2: Section – 2.2 Conditional Statements
#2 Assignments due: **April 14, 2019** Quiz 1 due: **April 15, 2019**	• Chapter 3: Section -3.1 Predicates and Quantified Statements • Chapter 4: Section – (4.1 to 4.4) Direct Proof • Chapter 4: Section – 4.6 Contraposition
#3 Assignments due: **April 21, 2019** Quiz 2 due: **April 22, 2019**	• Chapter 4: Section – (4.6 to 4.7) Contradiction • Chapter 6: Section - 6.1 Set Theory
#4 Assignments due: **April 28, 2019** Quiz 3 due: **April 29, 2019**	• Chapter 6: Section – (6.2 to 6.3) Set Operations • Chapter 5 : Section - 5.1 Sequences and Sums

#5 Assignments due: **May 05, 2019** Quiz 4 due: **May 06, 2019**	• Chapter 5: Section - (5.2 to 5.3) Weak Induction • Chapter 5: Section - 5.4 Strong Induction
#6 Assignments due: **May 12, 2019** Quiz due: **No quiz due to the midterm exam**	• Chapter 5: (Section - 5.6 to 5.7 and 5.9) Recursive Definitions
#7 Assignments due: **May 19, 2019** Quiz due: **No quiz due to the midterm exam**	**Midterm : 05/11/2019 - 05/15/2019 (Week 1- Week 5)** • Chapter 9: Section- (9.2 to 9.3) Basic Counting Rules • Chapter 9: Section-9.4 The Pigeonhole Principle
#8 Assignments due: **May 26, 2019** Quiz 5 due: **May 27, 2019**	• Chapter 9: Section- (9.2 and 9.5) Permutations and Combinations • Chapter 9:Section - 9.6 Permutations and Combinations with Repetition
#9 Assignments due: **June 02, 2019** Quiz 6 due: **June 03, 2019**	• Chapter 10: Section-10.1 Basic Graph Definitions and Properties • Chapter 10: Section-10.2 Trails, Paths and Circuits
#10 Assignments due: **June 07, 2019** Quiz 7 due: **June 07, 2019**	• Chapter 10: Section -10.7 Shortest Path Problem
# Final Week	**Final Exam :06/08/2019 – 06/12/2019 (Week 2- Week 10)**