CS 225_400: Discrete Structures in CS (Summer 2021)

Abbreviated Weekly Scheduleł:

Hc gi a a Uf]nYz h Y Ugg][ba Ybhg,]b]h]U and final dcghg cZX]gW gg]cbg UfY Xi Y Vm %)- 'da 'fDGHL cb' Mondays,' ei]nnYg cb' a UhYf]U g Wc j YfYX]b h Y df]cf k YY_g UfY Xi Y Vm'%)- 'da 'fDGHL cb' K YXbYgXUmg, reply posts of discussions are due by 11:59 pm (PST) on Thursdays(except week 7&8) "D YUgY a U_Y gi fY h Uh mci '\ Uj Y gi Va]hhYX'h Y Ugg][ba Ybhgz X]gW gg]cb' f Ygdcbg Ygz UbX' ei]nnYg' j]U 7 Ubj Ug" H l]g' gW YXi 'Y']g' gi V YW hc' W Ub[Y" 7 \ Ub[Ygz]Z bYW ggU mz k]` VY i dXUhYX' \ YfY UbX' dcghYX' j]U 7 Ubj Ug#Ed Discussion Ubbci bW a Ybhg"

Week	Course Topics (followed the 5 th edition of the required textbook)
#1 Assignments due: June 28, 2021 Syllabus Quiz due: June 30, &\$&1	 Chapter 2: Section – 2.1 Logical Form and Logical Equivalence Chapter 2: Section – 2.2 Conditional Statements Chapter 3: Section – (3.1 to 3.2) Predicates and Quantified Statements
#2 Assignmentsdue: July 05, 2021 7 Ubj UgʻX]gW gg]cbʻdue f]b]h]Uʻdcgh: July 05, 2021 Canvas discussion due (reply post): July 08, 2021 Canvas discussion due (final post): July 12, 2021	 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
#3 5 gg][ba Yblg'Xi Y. July 12, 2021 Ei]n'1'Xi Y. July 14, 2021	 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 Chapter 5: Section – (5.1 and 5.2) Sequences and Summations
#4 Assignments due: July 19, 2021 7 Ubj UgʻX]gW gg]cbʻdue f]b]hJUʻdcglt: July 19, 2021 Canvas discussion due (reply post): July 22, 2021 Canvas discussion due (final post): July 26, 2021	 Chapter 5: Section – (5.2 to 5.3) Weak Mathematical Induction Chapter 5: Section – 5.4 Strong Mathematical Induction

Week	Course Topics (followed the 5 th edition of the required textbook)
#5 5 gg][ba YblgˈXi Y. July 26, 2021 Ei]nˈ2ˈXi Y. July 28, 2021	 Chapter 5: (Section – 5.6, 5.7, and 5.9) Recursive Definitions Chapter 9: Section – (9.2 to 9.3) Basic Counting Rules: Multiplication and Addition Rule Chapter 9: Section – 9.4 The Pigeonhole Principle
#6 Assignments due: August 02, 2021 7 Ubj Ug'X]gW gg]cb'due f]b]f]U dcglt: August 02, 2021 Canvas discussion due (reply post): August 05, 2021 Canvas discussion due (final post): August 09, 2021	 Chapter 9: Section – (9.2 and 9.5) Permutations and Combinations Chapter 9: Section – 9.6 Combinations with Repetition Allowed
#7 Assignments due: August 09, 2021 (no late submission will be graded) Canvas discussion due (initial post): August 09, 2021 Canvas discussion due (reply post): August 11, 2021 Canvas discussion due (final post): August 13, 2021	 Chapter 1: Section-1.4 The Language of Graphs Chapter 4: Section-4.9 Application: The Handshake Theorem Chapter 10: Section-10.1 Connectedness: Trails, Paths and Circuits Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm
#Final Week Final Quiz due: August 15, 2021	Final Quiz : 08/11/2021 – 08/15/2021 (Week 2 – Week 7)