



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

Abbreviated Weekly Schedule:

He`gi a a Uf]nYž H Y Ugg][ba YbHg, [b]hU` and final dcghg`cZ X]gW gg]cbg`UfY Xi Y Vm (%) - `da `fDGH`cb` Mondays,` ei]nnYg cb`a Uhf]Ug`Vtj YfYX`jb`H Y`df]cf`k YY_g`UfY Xi Y Vm(%) - `da `fDGH`cb`K YXbYgXUhg, reply posts of discussions are due by 11:59 pm (PST) on Thursdays(except week 10)"D`YUgY`a U_Y`gi fY`H Uhi`ci `\\ Uj Y`gi Va]hYX`H Y Ugg][ba YbHgž X]gW gg]cb`fYgdcbgYgž UbX`ei]nnYg`j jU7 Ubj Ug`fH]g`gW YXi `Y`jg`gi V`YVh`hc`W Ub[Y`7\ Ub[Ygž]Z bYWggUfnž k]`VY`i dXUfYX`\\ YfY`UbX`dcghYX`j jU7 Ubj Ug`Ed Discussion`Ubbci bWYa YbHg"

Week	Course Topics (followed the 5 th edition of the required textbook)
#1 Assignments due: April 05, 2021 Syllabus Quiz due: April 07, 8&\$&1	<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: April 12, 2021 7 Ubj Ug`X]gW gg]cb`due f]b]hU`dcghg` April 12, 2021 Canvas discussion due (reply post): April 15, 2021 Canvas discussion due (final post): April 19, 2021	<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 5 gg][ba YbHg`Xi Y. April 19, 2021 Ei]n`1`Xi Y. April 21, 2021	<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
#4 Assignments due: April 26 2021 7 Ubj Ug`X]gW gg]cb`due f]b]hU`dcghg` April 26, 2021 Canvas discussion due (reply post): April 29, 2021 Canvas discussion due (final post): May 03, 2021	<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

CS 225

Discrete Structures in Computer Science

Week	Course Topics (followed the 5 th edition of the required textbook)
#5 5 gg[] ba Yb[] Xi Y. May 03, 2021 Ei []n'2' Xi Y. May 05, 2021	<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
#6 Assignments due: May 10, 2021 7 Ubj Ug X]gW gg]cb'due f[]b]h]U'dcgl[]: May 10, 2021 Canvas discussion due (reply post): May 13, 2021 Canvas discussion due (final post): May 17, 2021	<ul style="list-style-type: none"> Chapter 5: (Section - 5.6, 5.7, and 5.9) Recursive Definitions
#7 Assignments due: May 17, 2021 Quiz 3 due: May 19, 2021	<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
#8 Assignments due: May 24, 2021 7 Ubj Ug X]gW gg]cb'due f[]b]h]U' dcgl[]: May 24, 2021 Canvas discussion due (reply post): May 27, 2021 Canvas discussion due (final post): May 31, 2021	<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
#9 Assignments due: May 31, 2021 Quiz 4 due: June 02, 2021	<ul style="list-style-type: none"> 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
#10 Assignment due: June 04, 2021 Canvas discussion due (initial post): June 02, 2021 Canvas discussion due (reply post): June 04, 2021 Canvas discussion due (final post): June 07, 2021	<ul style="list-style-type: none"> Chapter 10: Section -10.6 Spanning Trees and a Shortest Path Algorithm
#Final Week Final Quiz due: June 10, 2021	Final Quiz :06/06/2021 – 06/10/2021 (Week 3 – Week 10)