

Tentative Schedule CS 325-400

Week(s) Jan. 6 th to Mar. 13 th	Topics & Readings from the CLRS Textbook	Supplements	Due Sunday at 11:59*
1	Ch 1, 2, 3: Role of Algorithms, Insertion sort, Analysis and Design, Asymptotic notations	KA: Intro to Algorithms. Binary Search Insertion Sort KA: Asymptotic Notation	Quiz 1 HW 1 Group discussions
2	Ch 4: Divide and Conquer JE: Appendix II: Solving Recurrences	KA: Recursive Algorithms Merge Sort Towers of Hanoi	Quiz 2 HW 2 Group Discussions
3	Ch 15: Dynamic Programming JE: 5. Dynamic Programming	MIT lectures	Quiz 3 HW 3 Group Discussions
4	Ch 16: Greedy Algorithms		Quiz 4 HW 4 Group Discussion
5	Mid-term Review	Mid-term practice	Midterm Exam Thu. at 8:00am to Sun. at 11:59pm PST
6	Ch 22: Elementary Graph Algorithms Ch 23 Minimum Spanning Tree Ch 24: Shortest Path JE: Basic Graph Algorithms	KA: Graph representation Breadth-first search	Quiz 5 HW 5 Group Discussion
7	Ch 29 Linear Programming	LINDO Software available at http://engineering.oregonstate.edu/computing/citrix/	Quiz 6 HW 6 Group Discussion
8	Ch 34 NP Completeness, Travelling Salesman Problem JE: 30. NP Hardness		Quiz 7 HW 7 Group Discussion
9 & 10	Ch 35 Approximation Algorithms	Review for Final Exam	Quiz 8 HW 8 Group Discussion
11	Final Exam Opens Sunday at 8:00am and closes Wednesday at 11:59pm PST		

*Note: For this class the Week starts on Monday and ends on Sunday at 11:59pm.

CLRS: Introduction to Algorithms, 3rd Edition, Cormen, Leiserson, Rivest and Stein

KA: Khan Academy – Computer Science Algorithms created by Tom Cormen and Devin Balkcom

JE: Algorithms, Etc. by Jeff Erickson, <http://jeffe.cs.illinois.edu/teaching/algorithms>