

Tentative Schedule CS 325 – Fall 15

Week	Topics & Readings from CLRS and JE	Supplements	Assignments Due at 11:59pm
0 Sept 24th	Review – Logarithms, limits, summations, series, proof by induction JE: 0. Introduction Ch 1: Role of Algorithms		Discussion Board Syllabus Quiz
1 Sept. 28th	Ch 2: Getting Started Insertion Sort, Analyzing Algorithms, Designing Algorithms Ch 3: Growth of Functions	KA: Intro to Algorithms. Binary Search Insertion Sort KA: Asymptotic Notation	HW 1 Due Sunday
2 Oct. 5th	Ch 4: Divide and Conquer JE: Appendix II: Solving Recurrences	KA: Recursive Algorithms Merge Sort	HW 2 Due Sunday
3 Oct. 12th	Ch 15: Dynamic Programming JE: 5. Dynamic Programming		Project 1 Due Sunday
4 Oct. 19th	Ch 16: Greedy Algorithms		
5 Oct 26th	Project 2 Due Tuesday Midterm Review	Midterm: Thursday 10/29/15 at 8:00am to Sunday 11/1/15 at 11:59pm	
6 Nov. 2nd	Ch 22: Elementary Graph Algorithms Ch 23 Minimum Spanning Tree Ch 24: Shortest Path JE: Basic Graph Algorithms	KA: Graph representation Breadth-first search	HW 3 Due Sunday
7 Nov. 9th	Ch 29 Linear Programming	LINDO Software available at http://engineering.oregonstate.edu/computing/citrix/	Project 3 Due Sunday
8 Nov. 16th	Ch 34 NP Completeness, Travelling Salesman Problem JE: 30. NP Hardness		HW 4 Due Sunday
9 Nov. 23rd	Ch 35 Approximation Algorithms		Thanksgiving Holiday
10 Nov. 30th	Catch-Up	Final Exam Review	Project 4 Due Friday at 11:59pm
FINAL EXAM Monday Dec. 7th at 8:00am to Wednesday Dec. 9th at 11:59pm			

CLRS: Introduction to Algorithms, 2nd or 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://web.engr.illinois.edu/~jeffe/teaching/algorithms/>