

## Tentative Schedule CS 325-002 Winter 2020

Week	Monday	Wednesday	Friday
1	Intro Ch 1: Role of Algorithms	Ch 2: Getting Started Insertion Sort, Analyzing Algorithms, Designing Algorithms	Ch 2: Proof of Correctness Ch 3: Growth of Functions
2	Ch 3: Growth of Functions	Ch 3: Growth of Functions Ch 4: Divide and Conquer  <b>HW 1 – Due at 11:59pm</b>	Ch 4: Solving Recurrences JE: Appendix II: Solving Recurrences
3	<b>NO CLASS</b>	Ch 4: Solving Recurrences	Review  <b>HW 2 – Due at 11:59pm</b>
4	<b>QUIZ 1</b>	Ch 15: Dynamic Programming  JE: 3. Dynamic Programming	More DP
5	More DP	Ch 16: Greedy Algorithms	JE 4. Greedy Algorithms  <b>HW 3 – Due at 11:59pm</b>
6	More Greedy	Ch 22: Elementary Graph Algorithms  JE: 5. Basic Graph Algorithms	Ch 22: BFS & DFS  JE: 6. DFS
7	Ch 23 Minimum Spanning Tree  JE: 7. MST	Ch 24: Shortest Path  JE: 8. Shortest Path	Review  <b>HW 4 – Due at 11:59pm</b>
8	<b>QUIZ 2</b>	Ch 34 NP Completeness	JE: 12. NP Hardness
9	NP-Complete Proofs	More NP Complete <b>HW 5 – Due at 11:59pm</b>	Ch 35 Approximation Algorithms
10	JE: J. Approximation Algorithms	More Approximation Algorithms	<b>Review</b> <b>Project Due 11:59pm</b>
<b>Week 11 : QUIZ 3 Thursday at March 19<sup>th</sup> at 2:00pm room TBA</b>			

CLRS: Introduction to Algorithms, 2<sup>nd</sup> or 3<sup>rd</sup> Edition, Cormen, Leiserson, Rivest and Stein

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