/SI335/Spring AY20 - Calendar

January 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7 Class 1 Introduction Week 1 Monday Schedule	8 Class 2 Expressing Running Time	9	10 Class 3 Analyzing simple iterative algorithms	11
12	13 Class 4 Proving Correctness for Iterative Algs Week 2	14	15 Loop invariants (continued) Homework	16	17 Class 5 Analysis & Correctness for Simple Recursive Algorithms	18
19	20 MLK Day	21 Week 3	22 Class 6 Analyzing and improving iterative algorithms I	23	24 Class 7 Analyzing and improving iterative algorithms II	25
26	27 Class 8 Basic iterative sorting Week 4	28	29 Class 9 Finishing selection & insertion sort; Divide & Conquer	30	31 Class 10 All about Merge Sort	

February 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 Class 11 Master Theorem for recurrence relations Week 5	4	5 Class 12 Lower bounds on sorting	6	7 Class 13 Graph Algorithms (intro) & analysis revisited	8

9	10 Class 14 Graph Algorithms - Search Week 6	11	12 6Week Exam	13	14 Exam Debrief	15
16	17 Presidents Day	18 Week 7	19 Class 15 Graph Algorithms - Depth First Search revisited 6Wk Grades Due	20	21 Class 16 Graph Algorithms - digraphs and topological sort	22
23	24 Class 17 Optimization and Greedy Algorithms Week 8	25	26 Class 18 Prim's MST Algorithm (get greedy!)	27	28 Class 19 Analyzing Prim's MST Algorithm	29

March 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Class 20 Intro to memoization and dynamic programming (LCS) Week 9	3	4 Class 21 Dynamic programming LCS	5	6 Class 22 0/1 Knapsack	7
8	9 Spring Break	10 Spring Break	11 Spring Break	12 Spring Break	13 Spring Break	14
15	16 Class 23 Introduction to P and NP Week 10	17	18 Class 24 Introduction to P and NP	19	20 Class 25 Nondeterministic Computing & Polynomial Time Reduction	21
22	23 Class 26 A Non-Trivial Reduction Problem Week 11	24	25 Class 27 CIRCUIT-SAT and NP-COMPLETENESS	26	27 Class 28 3CNF-SAT & INDEPENDENT-SET	28
29	30 Class 29 I've got an NP-Hard Problem ... What do I do?	31				

	Week 12					

April 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 12Week Exam	2	3 Exam Debrief	4
5	6 Class 30 Integer Multiplication Week 13	7 12Wk Grades Due	8 Class 31 Matrix Multiplication	9	10 Class 32 Number theoretic computations (intro)	11
12	13 Class 33 Number theoretic computations (the Euclidean Algorithm) Week 14	14	15 Class 34 Number theoretic computations (more Euclidean)	16	17 Class 35 RSA	18
19	20 Class 36 Number theoretic computations (RSA Example) Week 15	21	22 Course wrap-up / SOFs	23	24	25
26	27 Week 16	28	29 Reading Day	30		