Fall 2018 Schedule

Lect	DoW	Day	Month	Topic
1	W	22	Aug	Introduction, Syllabus, Notation conventions, C *for* -loop execution
2	M	27	Aug	Counting instructions, Summations
3	W	29	Aug	Binary Search, Sorting Algorithms: insertion sort, selection sort
4	M	3	Sep	No class (Labor Day holiday)
5	W	5	Sep	Sorting Algorithms continued, indirect sorting, binary search
6	M	10	Sep	Growth of functions, Summations (updated 9/9/18)
7	W	12	Sep	Growth of functions cont, Pointers (updated 9/13/18)
8	M	17	Sep	Linked Lists
9	W	19	Sep	Stacks, Stack Applications, Abstract Datatypes
10	M	24	Sep	Queues, Binary trees - math properties and terminology
11	W	26	Sep	Recursive functions
12	M	1	Oct	Recurrences - tree method
13	W	3	Oct	**EXAM 1, in class - confirmed**
14	M	8	Oct	Recurrences - Master Theorem, Induction
15	W	10	Oct	Dynamic Programming (DP): Fibonacci, Stair climbing
16	M	15	Oct	DP: Edit Distance
17	W	17	Oct	DP: Time Series allignment, Memoization
18	M	23	Oct	DP: Knapsack (3 versions), Job Scheduling, Matrix Traversal
19	W	25	Oct	Greedy Algorithms
20	M	29	Oct	Mergesort
21	W	31	Oct	Quicksort
22	M	5	Nov	**EXAM 2, in class - tentative date**
23	W	7	Nov	Hash Tables
24	M	12	Nov	Count sort, Radix Sort, Bucket Sort
25	W	14	Nov	Heaps
26	M	19	Nov	Search Trees: BST, Randomized BST, 2-3-4 Search Tree
27	W	21	Nov	No Class (Thanksgiving)
28	M	26	Nov	Graphs
29	W	28	Dec	Minimum-Cost Spanning Trees
30	M	3	Dec	Shortest Paths
				Extra topics: Network Flows, Min-Cuts, Bipartite Mathcing (if time permits)
	F	**7**	**Dec**	**Section 002 FINAL Exam Friday, Dec 7, 2 pm - 4:00 pm, room TBD.**
	W	**12**	**Dec**	**Section 001 FINAL Exam Wed, Dec 12, 11 am - 1:00 pm, room TBD.**
				As the instructor for this course, I reserve the right to adjust the schedule in any way that serves the educational needs of the students enrolled in this course. – Alexandra Stefan

OTHER important dates

	3	Sept	Labor Day, no class
	7	Sept	Census date
	2	Nov	Last day to drop
21	22	23 Nov	Thanksgiving, no class
	4	Dec	Last day of lectures
	6	12 Dec	Final exams