

COMP SCI 5200 Analysis of Algorithm Course Schedule
Fall 2021

Date	Day	Topics	Chapters
Aug. 24	T	Introduction	-
Aug. 26	Th	Asymptotic Analysis	3
Aug. 31	T	Recurrence	4
Sep. 2	Th	Backtracking	-
Sep. 7	T	Example and Practice I	-
Sep. 9	Th	Randomized Algorithms	5
Sep. 14	T	Heapsort and Quicksort	6-7
Sep. 16	Th	Linear Time Sorting	8-9
Sep. 21	T	Example and Practice II	-
Sep. 23	Th	Exam #1	-
Sep. 28	T	No class – Career Fair Day	-
Sep. 30	Th	No class – Fall Break	-
Oct. 5	T	Dynamic Programming	15
Oct. 7	Th	DP: Formal Formulation	15
Oct. 12	T	Greedy Algorithm	16
Oct. 14	Th	DP vs Greedy	-
Oct. 19	T	Example and Practice III	-
Oct. 21	Th	Exam #2	-
Oct. 26	T	Amortized Analysis	17
Oct. 28	Th	Heaps and Queues	-
Nov. 2	T	Disjoint-set	21
Nov. 4	Th	Minimum Spanning Tree	23
Nov. 9	T	Shortest Paths	24-25
Nov. 11	Th	Example and Practice IV	-
Nov. 16	T	Exam #3	-
Nov. 18	Th	No class – Takehome Bonus Problems	-
Nov. 23	T	No class – Thanksgiving Vacation	-
Nov. 25	Th	No class – Thanksgiving Vacation	-
Nov. 30	T	Max Flow	26

Date	Day	Topics	Chapters
Dec. 2	Th	Max Bipartite Matching	26
Dec. 7	T	NP-Completeness	34
Dec. 9	T	Approximation Algorithms	35.2
Dec. 14	T	Exam #4	-