

We will follow the textbook *Introduction to Algorithms*, third edition, by Cormen, Leiserson, Rivest and Stein. The following schedule outlines the material to be covered during the semester and specifies the corresponding sections of the textbook.

Date	Topic	Quiz	Reading	Homework	
				Assigned	Due
Thu 01/27	<i>Snow cancellation</i>				
Tue 02/01	Introduction, Summations		1.1-3.2, A.1-A.2	HW1	
Thu 02/03	Recurrences		4.1-4.4		
Tue 02/08	Master Theorem		4.5-4.6	HW2	HW1
Thu 02/10	Heapsort		6.1-6.5		
Tue 02/15	Quicksort		5.1-5.3, 7.1-7.4	HW3	HW2
Thu 02/17	Lower bounds on Sorting		8.1-8.4		
Tue 02/22	Linear-Time Selection		9.1-9.3	HW4	HW3
Thu 02/24	Hash Tables	Quiz1	11.1-11.5		
Tue 03/01	Dynamic Programming I		15.1-15.3	HW5	HW4
Thu 03/03	Dynamic Programming II		15.4-15.5		
Tue 03/08	Dynamic Programming III			HW6	HW5
Thu 03/10	Greedy Algorithms I	Quiz2	16.1-16.2		
Tue 03/15	Greedy Algorithms II		16.3	HW7	HW6
Thu 03/17	Dynamic Programming vs Greedy				
Tue 03/22	<i>Spring Break</i>				
Thu 03/24	<i>Spring Break</i>				
Tue 03/29	Basic Graph Algorithms I		22.1-22.2	HW8	HW7
Thu 03/31	Basic Graph Algorithms II		22.3-22.4		
Tue 04/05	Basic Graph Algorithms III		22.5	HW9	HW8
Thu 04/07	Minimum Spanning Trees I	Quiz3	23.1-23.2		
Tue 04/12	Disjoint Set Union		21.1-21.3	HW10	HW9
Thu 04/14	Minimum Spanning Trees II				
Tue 04/19	Shortest Paths I		24.1-24.3	HW11	HW10
Thu 04/21	Shortest Paths II	Quiz4	24.4-24.5		
Tue 04/26	Shortest Paths III		25.1-25.3	HW12	HW11
Thu 04/28	Maximum Flow I		26.1-26.3		
Tue 05/03	Maximum Flow II			HW13	HW12
Thu 05/05	Maximum Flow III	Quiz5			
Tue 05/10	NP-completeness		34.1-34.5		HW13
Thu 05/12	Review				
Tue 05/17	Final Exam 10:30am - 12:30pm				