

We will follow the textbook *Introduction to Algorithms*, second 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
Tue 01/27	Introduction		1.1-3.2		
Thu 01/29	Summations		A.1-A.2	HW1	
Tue 02/03	Recurrences		4.1-4.2		
Thu 02/05	Master Theorem		4.3-4.4	HW2	HW1
Tue 02/10	Heapsort		6.1-6.5		
Thu 02/12	Quicksort		7.1-7.4	HW3	HW2
Tue 02/17	Lower bounds on Sorting		8.1-8.4		
Thu 02/19	Linear-Time Selection		9.1-9.3	HW4	HW3
Tue 02/24	Hash Tables	Quiz 1	11.1-11.5		
Thu 02/26	Dynamic Programming I		15.1-15.3	HW5	HW4
Tue 03/03	Dynamic Programming II		15.4-15.5		
Thu 03/05	Dynamic Programming III			HW6	HW5
Tue 03/10	Greedy Algorithms I	Quiz 2	16.1-16.2		
Thu 03/12	Greedy Algorithms II		16.3	HW7	HW6
Tue 03/17	<i>Spring Break</i>				
Thu 03/19	<i>Spring Break</i>				
Tue 03/24	Dynamic Programming vs Greedy				
Thu 03/26	Basic Graph Algorithms I		22.1-22.2	HW8	HW7
Tue 03/31	Basic Graph Algorithms II		22.3-22.4		
Thu 04/02	Basic Graph Algorithms III		22.5	HW9	HW8
Tue 04/07	Minimum Spanning Trees I	Quiz 3	23.1-23.2		
Thu 04/09	Disjoint Set Union		21.1-21.3	HW10	HW9
Tue 04/14	Minimum Spanning Trees II				
Thu 04/16	Shortest Paths I		24.1-24.3	HW11	HW10
Tue 04/21	Shortest Paths II	Quiz 4	24.4-24.5		
Thu 04/23	Shortest Paths III		25.1-25.3	HW12	HW11
Tue 04/28	Maximum Flow I		26.1-26.3		
Thu 04/30	Maximum Flow II			HW13	HW12
Tue 05/05	Maximum Flow III	Quiz 5			
Thu 05/07	NP-completeness		34.1-34.5		HW13
Tue 05/12	Review				
Tue 05/19	Final Exam 10:30 am – 12:30pm				