We will follow the textbook *Introduction to Algorithms*, either the second or 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. Selected topics not in the textbook will require reading from handouts.

Date	Topic	Quiz	Reading		Homework	
			3/e	2/e	Assigned	Due
Thu 01/28	Greedy Algorithms		16.1-16.4	16.1-16.4		
Tue 02/02	Dynamic Programming		15.1-15.5	15.1-15.5	HW1	
Thu 02/04	Amortized Analysis		17.1-17.4	17.1-17.4		
Tue 02/09	Disjoint Set Union		21.1-21.4	21.1-21.4	HW2	HW1
Thu 02/11	Fibonacci Heaps		19.1-19.4	20.1-20.4		
Tue 02/16	Fibonacci Heaps				HW3	HW2
Thu 02/18	Maximum Flow		26.1-26.3	26.1-26.3		
Tue 02/23	Maximum Flow				HW4	HW3
Thu 02/25	Maximum Flow	**Quiz 1**				
Tue 03/02	Maximum Flow				HW5	HW4
Thu 03/04	Linear Programming		29.1-29.3	29.1-29.3		
Tue 03/09	Linear Programming				HW6	HW5
Thu 03/11	Linear Programming	**Quiz 2**				
Tue 03/16	*Spring Break*					
Thu 03/18	*Spring Break*					
Tue 03/23	NP-completeness		34.1-34.5	34.1-34.5	HW7	HW6
Thu 03/25	NP-completeness					
Tue 03/30	NP-completeness				HW8	HW7
Thu 04/01	Approximation Algorithms	**Quiz 3**	35.1-35.5	35.1-35.5		
Tue 04/06	Approximation Algorithms				HW9	HW8
Thu 04/08	Approximation Algorithms					
Tue 04/13	Randomized Algorithms		tba	tba	HW10	HW9
Thu 04/15	Randomized Algorithms	**Quiz 4**				
Tue 04/20	Multi-threaded Algorithms		27.1-27.3	download	HW11	HW10
Thu 04/22	Multi-threaded Algorithms					
Tue 04/27	Multi-threaded Algorithms				HW12	HW11
Thu 04/29	Parallel Merge Sort	**Quiz 5**	handout	handout		
Tue 05/04	Computational Geometry		33.1-33.2	33.1-33.2	HW13	HW12
Thu 05/06	Computational Geometry		33.3-33.4	33.3-33.4		
Tue 05/11	Computational Geometry					HW13
Thu 05/13	Review					
Tue 05/18	**Final Exam 1pm - 3pm**					