

MONTH	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Week	
JANUARY		15 MLK DAY	Lecture: Introduction, algorithm analysis and the selection problem		Lecture: Concrete models and lower bounds Homework 1 out	Recitation: Lower bounds		1	
		22	Lecture: Integer sorting	Homework 1 due	Lecture: Hashing, universal and perfect hashing Homework 2 out	Recitation: Integer sorting and hashing		2	
		29	Lecture: Fingerprinting Programming 1 out	Homework 2 due	Lecture: Amortized analysis Homework 3 out	Recitation: Fingerprinting and potential functions		3	
FEBRUARY		5	Lecture: Union-Find		Lecture: Range query data structures Homework 3 orals	Recitation: Union find and SegTrees Programming 1 due		4	
		12	MIDTERM ONE (7:00PM)		Lecture: Dynamic Programming Homework 4 out	Recitation: Dynamic programming		5	
		19	Lecture: Dynamic Programming II Programming 2 out	Homework 4 due	Lecture: Network Flows I: Flows, Cuts, and Matchings Homework 5 out	Recitation: Graph DP & Network flow		6	
		26	Lecture: Network Flows II: Advanced Flow Algorithms Homework 5 due		Lecture: Network Flows III: Minimum-cost Flows Programming 2 due	Recitation: Advanced flow		7	
MARCH		4	SPRING BREAK						
		11	Lecture: Game Theory Programming 3 out		Lecture: Linear Programming I: Fundamentals and Modeling Homework 6 out	Recitation: Game theory & Linear programming		8	
		18	Lecture: Linear Programming II: Seidel's 2D Algorithm Homework 6 orals		Lecture: Linear Programming III: Duality Programming 3 due	Recitation: More linear programming		9	
		25	MIDTERM TWO (7:00PM)		Lecture: Approximation Algorithms Homework 7 out	Recitation: Approximation algorithms		10	
		1	Lecture: Online Algorithms Programming 4 out	Homework 7 due	Lecture: Streaming Algorithms Homework 8 out	Recitation: Online and streaming algorithms		11	
APRIL		8	Lecture: Computational Geomtry I Homework 8 due Programming 4 due		SPRING CARNIVAL			12	
		15	Lecture: Computational Geomtry II: Randomized Incremental Programming 5 out		Lecture: Polynomials Homework 9 out	Recitation: Computational geometry		13	
		22	Lecture: The Fast Fourier Transform & Convolutions Homework 9 orals		Lecture: Online Learning (Multiplicative Weights Algorithm) Programming 5 due	Recitation: Polynomials, FFT, Online learning		14	
		29	FINAL EXAM WEEK						15