

MONTH	Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
AUGUST	1		28	Lecture (DA): Introduction and Linear-time Selection		Lecture (DA): Concrete models and tight upper/lower bounds Homework 1 out	Recitation: Recurrences and lower bounds	
	2		4 LABOR DAY	Lecture (DA): Hashing I: Universal and Perfect Hashing	Homework 1 due	Lecture (DS): Hashing II: Polynomial Hash Functions, aka Fingerprinting Homework 2 out	Recitation: Hashing and Fingerprinting	
SEPTEMBER	3		11	Lecture (DS): Amortized Analysis	Homework 2 due	Lecture (DS): More Amortized Analysis, Union Find Homework 3 out	Recitation: Amortized analysis and Union Find	
	4		18	Lecture (DA): Range queries and SegTrees		Lecture (DS): Splay Trees Homework 3 orals	Recitation: Splay Trees and SegTrees	
	5		25	Lecture (DA): Dynamic Programming I MIDTERM ONE		Lecture (DA): Dynamic Programming II Homework 4 out	Recitation: Dynamic programming	
OCTOBER	6	Daniel Anderson away at CppCon during week 6						
		2	Lecture (DS): Graph search and Depth-first search		Lecture (DS): Network Flows I: Flows and Matchings Homework 4 due	Recitation: Graph search and Network Flow Homework 5 out		
	7	9	Lecture (DA): Network Flows II: Advanced Flow Algorithms		Lecture (DA): Network Flows III: Minimum cost flows Homework 5 due	Recitation: Advanced Network Flow and Minimum-cost Flows		
	FALL BREAK							
	8	23	Lecture (DS): Game Theory Homework 6 out		Lecture (DA): Linear Programming I: Fundamentals	Recitation: Game Theory and Linear Programming		
NOVEMBER	9	30	Lecture (DA): Linear Programming II: Duality		Lecture (DS): Linear Programming III: Polytopes, Simplex, and Integrality Homework 6 orals	Recitation: More Linear Programming: Polytopes and Duality		
	10	6	DEMOCRACY DAY		Lecture (DS): Approximation Algorithms MIDTERM 2	Recitation: Approximation algorithms		
	11	13	Lecture (DS): Online Algorithms Homework 7 out		Lecture (DA): Computational Geometry I: Geometric Primitives and Convex Hull	Recitation: Online algorithms & geometry primitives, convex hull		
	12	20	Lecture (DA): Computational Geometry II -- Incremental Algorithms Homework 7 due	THANKGIVING BREAK				
	13	27	Lecture (DS): Computational Geometry III -- Sweep Algorithms Homework 8 out		Lecture (DS): Convolutions and their Applications	Recitation: More geometry & convolutions		
DECEMBER	14	4	Lecture (DS): The Algorithmic Magic of Polynomials		Lecture (DA): Fast Fourier Transform Algorithm Homework 8 orals	Recitation: FFT & Polynomials		
	15	EXAM WEEK. Final exam date TBD						