

CSE 780: Design and analysis of algorithms
Fall 2008
(Tentative Syllabus)

Lectures	Materials	Chapter	Assignments
Sep 24	Big-O and Big- Ω	2,3,4	
Sep 26	Sort (Heap)	6	Hw1
Sep 29	Sort (Heap, Quick)	7	
Oct 01	Sort (Quick)	7	
Oct 03	Selection	9	Hw2
Oct 06	Selection		
Oct 08	No Class	No Class	
Oct 10	Search Trees	12	
Oct 13	Dynamic prog. I	15	Hw3
Oct 15	Dynamic prog. II		
Oct 17	Dynamic prog. III		
Oct 20	Greedy algorithms	16	Hw4
Oct 22	Fibonacci heap I	20	
Oct 24	Fibonacci heap II		
Oct 27	Midterm		
Oct 29	Union-Find algorithms I	21	
Oct 31	Union-Find algorithms II		
Nov 03	Graphs, DFS	22	Hw5
Nov 05	Topo sort		
Nov 07	BFS		
Nov 10	Min. spanning tree	23	Hw6
Nov 12	Min. spanning tree		
Nov 14	Single source shortest path	24	
Nov 17	Single-All pairs shortest paths	25	
Nov 19	All pairs shortest paths		Hw7
Nov 21	Flow networks	26	
Nov 24	Flow networks		
Nov 26	Geometric problem I	33	
Dec 01	Geometric problem II		Hw8
Dec 03-05	Review		

Instructor: **Tamal K. Dey**, Room: **483 DL, 292-3563**.

Classes: **MWF 9:30 at Boltz 128**

Office hours: **MWF 10:30-11:00 am. or by appointment**

Grading Policy: **Assignments: 30% Midterm: 30% Final: 40%**

Required Text: **Introduction to Algorithms, T. Cormen, C. Leiserson and R. Rivest, MIT press, McGraw-Hill Book Company (2nd edition)**

No late assignment is permitted. All homeworks will be posted on

<http://www.cse.ohio-state.edu/~tamaldey/course/780>