COS 423: Introduction to Algorithms
Spring, 1999 Handout **#1**
Tarjan

Tentative Syllabus

Date	Topic	CLR Chapters
Tues 2/2	Introduction: Algorithms and Complexity	1–6
Thurs 2/4	List Update & Paging: Amortized Analysis	18
Tues 2/9	Stacks, Queues, Trees, Union-Find	11, 22
Thurs 2/11	Amortized Analysis of Union-Find	22
Tues 2/16	Dynmamic Connectivity	
Thurs 2/18	Heaps on Heaps	7, 20, 21
Tues 2/23	Balanced Search Trees (Buchsbaum)	13, 14, 19
Thurs 2/25	Self-Adjusting Search Trees (Buchsbaum)	
Tues 3/2	Sorting: A Whirlwind Tour	8, 9, 10
Thurs 3/4	Hash Tables	12
Tues 3/9	Graph Search and Applications	23
Thurs 3/11	Graph Algorithms	
Spring Break		
Tues 3/23	Planarity Testing	
Thurs 3/25	Minimum Spanning Trees	24
Tues 3/30	MST's and Shortest Paths	24, 25
Thurs 4/1	Shortest Paths	25, 26
Tues 4/6	Network Flows	27
Thurs 4/8	Matchings	27
Tues 4/13	P, NP, NP-Completeness	36
Thurs 4/15	Problem Reductions	36
Tues 4/20	Coping with NP-Completeness	37
Thurs 4/22	Topics	
Tues 4/27	Topics	
Thurs 4/29	Topics	

Possible Topics: String Matching, Data Compression, Cryptology