CSci 335 Class Schedule

The following table identifies the topics that we will cover, and approximately how much class time will be spent on each. **You are expected to read the material in the given chapter before the class in which it is covered**. (Quizzes may be based on it.) There is more material in the chapters than we will cover in class. There may be some small deviations from this plan, which will be announced in advance.

Class	Date	Topic/Material	Textbook Chapters
1 2	1/25 1/29	Administrative business/ Review of selected topics in C++	§1, except 1.7
3 4 5	2/1 2/5 2/8	Algorithm analysis, mathematical background, modeling running times	§2
	2/12	**No Class - College is closed**	
6 7 8 9	2/15 2/19 2/22 2/26	Trees: Tree fundamentals, binary trees, search trees, AVL trees, B-trees	§4, except 4.5, 4.8
10 11 12	3/1 3/5 3/8	Hashing: Hash functions, collision resolution, hash tables, rehashing, perfect hashing	§5, except 5.7, 5.8, 5.9
13 14	3/12 3/19	Priority queues: heap basics, binary heaps	§6, except 6.5, 6.6, 6.7, 6.8, 6.9
15	3/22	**Midterm Exam**	
16 17 18 19	3/26 3/29 4/2 4/5	Sorting: simple sorts, shell sort, heapsort, mergesort, quicksort, lower bound on sorting	§7
20 21	4/9 4/12	Disjoint sets: Equivalences, dynamic equivalence problem, smart union and path compression algorithms	§8, except 8.6, 8.7
22	4/16	Graph algorithms: graphs	§9.1, 9.2
	4/19 4/23 4/26	**Spring Recess**	
23 24 25 26	4/30 5/3 5/7 5/10	Graph algorithms: shortest path algorithms, minimum spanning tree algorithms, depth-first search, NP-completeness	§9.3, 9.5, 9.7
27	5/14	Topics subject to change, but might be: algorithm design techniques: dynamic programming; Review	§10.3