CSE 373 **Review Topics for Second Midterm**

Most of the emphasis of the midterm will be on the topics listed below, but you are also responsible for the earlier course material.

- AVL trees. Single and double rotations. Insertion algorithm.
- Splay trees. Insert, delete, find.
- B-trees. Insert, delete, find.
- Hashing. Open and closed hashing. Hash functions. Uniform probing, linear probing, quadratic probing, double hashing, rehashing.
- Priority queues. Binary heaps. Insert, delete-min, increase, decrease, delete, build-heap, heapsort.
- Mergeable priority queues. Implementations of merge, insert and delete-min using binomial queues.
- Lower bound on the number of comparisons required for sorting.