General—the basics only: Java programming model, Data Structures, APIs, Entropy, bags/ stacks/queues, induction, analysis of algorithms (complexity);

Sorting—the basics: Quicksort, Mergesort, Insertionsort;

More detail from mid-term exam onwards (see next slide)

Searching/Symbol tables: Symbol tables, Hashtables with separate chaining and linear probing; BSTs, 2-3 and red-black trees [but not detail of rotations in R/B trees];

Graphs: data structures, depth-first and breadthfirst search; DAGs: topological sort; minimum spanning trees;

Strings: radix sorts, regex/FSMs;

Reduction