CSE 385 Fall 2017 Syllabus (updated through the semester)

L1: Logistics, Insertion sort and asymptotic notations: Sections 2.1, 2.2, 3.1

L2: Merge sort and divide-and-conquer: 2.3, 4.1

L3: Maximum-subarray, matrix multiplication: 4.1, 4.2

L4: Solving recurrences, the master theorem and its intuitive analysis: 4.3, 4.5, 4.6 (without the recursion tree)

L5: Probabilistic analysis and randomized algorithms: 5.1, 5.2, 5.3

L6: The birthday paradox, heapsort: 5.4.1, 6.1, 6.2, 6.3

L7: Heapsort, priority queues, quicksort: 6.4, 6.5, 7.1, 7.2

L8: Randomized quicksort and analysis, lower bounds: 7.3, 7.4, 8.1

L9: Sorting in linear time, median and order statistics: 8.2, 8.3, 9.1, 9.2

L10: Selection, hash tables: 9.3, 11.1, 11.2

L11: Hash tables, hash functions