Reading Assignments
(Updated)

CS 535 Design and Analysis of Algorithms
Fall Semester, 2018

Unless otherwise stated, all reading assignments are from the text, Introduction to Algorithms, MIT Press, 3rd ed. 2009. You should have done the reading before the day in which that subject is covered. These reading assignments are very important for understanding the lectures and homework.

1. August 23—Dynamic Programming: Chapter 15, and notes on TSP
2. August 30—Greedy Algorithms: Chapter 16 (excluding sections 6.4 & 6.5), and notes on matching
3. September 6—Amortized analysis: Chapter 17
4. September 13—Splay Trees: notes
5. September 20—Lazy WB trees: notes; Fibonacci Heaps: Chapter 19
6. September 27—van Emde Boas Trees: Chapter 20
7. October 4—Disjoint Sets: Chapter 21
8. October 11—FFT: Chapter 30
9. October 18—Graph Flow: Chapter 26 (excluding section 26.5)
10. October 25–November 1—NP-Completeness: Chapter 34
11. November 8—Approximation Algorithms: Chapter 35 (excluding sections 35.4–35.5) and other material
12. November 15—Computational Geometry: Sections 33.3 and 33.4
13. November 29—String Matching: Chapter 32 and notes