Reading Assignments
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—Graph Flow: Chapter 26 (excluding section 26.5)
9. October 18—FFT: Chapter 30
10. October 25—String Matching: Chapter 32 and notes
11. November 1—NP-Completeness: Chapter 34
12. November 15—Approximation Algorithms: Chapter 35 (excluding sections 35.4–35.5) and other material