

CSE 463 Syllabus Guidance

General Guideline:

1. Follow the class lectures. Whatever are in the lecture slides are of highest importance. Do not limit yourselves to the slides alone. Identify the slide material in the reference book and read those sections thoroughly.

Section/Pages from reference book(s)

1. Molecular Biology Primer
 - a) Read the entire of chapter 3 from Pevzner's old book
2. Genome Rearrangements
 - a) Page 294 – 325
 - b) Genome dot plot
3. HMM
 - a) Page 179 – 226
 - b) Exclusion:
 - i. Gene prediction (Slide page 38-44)
4. Combinatorial Pattern Matching
 - a) Knuth-Morris-Pratt (Ref: Cormman)
 - b) BWT notes (bwt_fm.pdf)
 - c) Book Page 123 – 135
5. Motifs
 - a) Page 67 – 104
 - b) Exclusions
 - i. Motif logo
 - ii. Entropy based scoring function