

- We will cover substitution and scoring matrices (especially the PAM and BLOSUM series) in detail (based on Chapter 5.1 of “Understanding Bioinformatics”).
- We will start with “Indexing Techniques and Algorithmic Approximation” (Chapter 5.3 of “Understanding Bioinformatics”).
- Mandatory additional reading: Mark P Styczynski; Kyle L Jensen, Isidore Rigoutsos, Gregory Stephanopoulos (2008). “BLOSUM62 miscalculations improve search performance”. *Nat. Biotech.* 26: 274-275. doi:10.1038/nbt0308-274. <http://www.nature.com/nbt/journal/v26/n3/full/nbt0308-274.html>.