

### AY 2021 BIOL/CIS/GCB 536 Class Schedule

Date	Topic	Lecturer
9/1/2021	1 <sup>st</sup> meeting organization	JK
9/8/2021	String search 1	JK
9/13/2021	String search 2	JK
9/15/2021	Large-scale searching and BWT 1-40 to 1-49 (before BLAST)	A1
9/20/2021	Sequence alignment part 1: 1-50 to 1-63 (before optimal alignment)	B1
9/22/2021	Sequence alignment part 2: 1-63 to 1-68 (before multiple alignment)	C1
9/27/2021	Multiple alignment: 1-68 to 1-75	D1
9/39/2021	HMM part 1: 2-2 to 2-11 (before HMM computations)	E1
10/4/2021	HMM part 2: 2-11 (HMM computations) to 2- 21 (before Box: Models...)	A2
10/6/2021	Box Models, parameters, and parameter estimation: 2-21 to 2-24 Phylogeny part 1: 2-25 2-30	B2
10/11/2021	Phylogeny part 2 (additive distance): 2-31 to 2-43 (exclude Box on Models)	C2
10/13/2021	Phylogeny part 3 (MP): 2-43 to 2-50	D2
10/18/2021	Phylogeny part 4 (tree optimization): 2-51 to 2-61 (before Unit 13)	E2
10/20/2021	Stochastic model of evolution: 2-61 to 2-70 (before MCMC)	A3
10/25/2021	MCMC computations: 2-71 to 2-74; Property of estimators: 2-74 to 2-80	B3
10/27/2021	Learning methods: Part 3 page 1 to page 10 (leave out yellowed text)	C3
11/1/2021	Kernel distances: Part 3 page 14 to page 22 (before convolution kernels)	D3
11/3/2021	Statistical properties of LM: Part 3 page 25 to 27 (before yellow part) and then page 30 Cross validation to 31 (before yellowed text)	E3
11/8/2021	Data Visualization and Dimension Reduction	JK
11/10/2021	Empirical Problem 1	
11/15/2021	Empirical Problem 2	
11/17/2021	Approach Discussion 1	
11/22/2021	Approach Discussion 2	
11/29/2021	Approach Discussion 3	

12/1/2021	TBA	
12/6/2021	TBA	
12/8/2021	Final Lecture	

## Teams

Team\Round	1	2	3
A	Patterson/Lee/Moore/Mouck	Lin/Bhanap/Lee/Mouck	Wang/Lin/Lee/Woemer
B	Lin/Peng/Bhanap/Dudek	Jones/Rong/Peng/Dudek	Bhanap/Shivakumar/Rybacki/Fielding
C	Jones/Bao/Rong/Xu	Wang/Zhang/Bao/Xu	Patterson/Rong/Mouck/Peng
D	Wang/Li/Zhang/Woemer	Shivakumar/White/Li/Rybacki	Moore/Zhang/Xu/Dudek
E	Shivakumar/Fielding/White/Rybacki	Patterson/Moore/Woemer/Fielding	Jones/White/Bao/Li