BIOL 525B 2015.

DRAFT -- Schedule and Assignment Due Dates for Summer Phylogenetics Workshop

Date	Topic	Labs & homework
Tu May 12	Intro: What phylogenies have to say	
We May 13	Reading & writing trees	
Th May 14	Choosing a question and selecting appropriate sequences	**Lab 1.** Entrez & Blast.
Fri May 15	Alignments & evolutionary models	**Lab 2**. Intro to Unix. Genomes and stand-alone homology searches
Mo May 18	Alignment	**Lab 3**. Alignment Alignment using Muscle, MAFFT, Mesquite.
Tu May 19	Parsimony - Principles	**Lab 4.** Parsimony: Heuristic searchs and tree visualization
We May 20	Parsimony – Heuristic searches & bootstrapping	**Lab 5**. Bootstrap and consensus
Th May 21	Gene trees, species trees	**Lab 6**. Tree reconciliation, evolution of multigene families
Tu May 26	Return to evolutionary models	
We May 27	Intro to maximum likelihood	
Th May 28	Maximum likelihood II	**Lab 7**. RAxML analysis of DNA, including model-testing
Fr May 29	Maximum likelihood III	**Lab 8**. RAxML analysis of proteins, including model-testing
Tu Jun 02	Hypothesis testing	**Lab 9.** Hypothesis testing
Tu Jun 09	Bayesian phylogenetic inference	**Lab 10**. MrBayes lab
We Jun 10	Conflict, congruence, error	**Lab 11**. Character evolution lab
Th Jun 11	How papers are published	
Fr Jun 12	Student presentations	
Optional **Tu** Jun 15	Student presentations	
Fr Jun 25		<=Course project due =>