

# Weekly Calendar

## Fall 2008

Class Meetings	Major Topic	Class notes	Assignments
Wed: 9/3	Background & Basics	Class 1: Introduction to Bioinformatics Biology as an information science Language of Bio and CS	
Mon: 9/8		Class 2 (Prof Smith attending CPA2008) [http://www.cs.york.ac.uk/CPA08/]: Guest Speaker: Greg Priest-Dorman Security, Access and Usage of bioinf cluster <b>Lab:</b> Accessing the bioinf Cluster Navigating with Linux commands <a href="#">Project 0</a>	
Wed: 9/10		Class 3 (Prof Smith attending CPA2008) [http://www.cs.york.ac.uk/CPA08/]: Genomes and Central Dogma	<b>UB: Chapters 1 - 3</b>
Mon: 9/15		Class 4: Dealing with large scale data cs353-pedna-ch1.ppt cs353-pedna-ch3.ppt <b>Lab:</b> Computational string analysis	<b>PEDNA: 1, 3</b> <b>Project 1: Assigned</b> ( <a href="#">Playing with Strings</a> )
Wed: 9/17		Class 5: Guest speakers: Mickey Thaler and Felix Steiny AiptasiaWiki	<b>Assigned reading:</b> Cyberinfrastructure Review
Mon: 9/22		Class 6: Proj1 Discussion Translation and Blast <b>Lab:</b> The BLAST algorithm Proj1 completion	<b>UBChapter 4</b> <b>Project 1 Due</b>
Wed: 9/24		Class 7: Regular Expressions cs353-pedna-ch4.ppt	Literature Assignment
Mon: 9/29		Class 8: <b>Paper presentations</b> <b>Lab:</b> More regex	<b>Presentations due</b> <b>Project 2: Assigned</b> ( <a href="#">Playing with Regular Expressions</a> )
Wed: 10/1		Class 9: Implementing an algorithm if-else statements cs353-pedna-ch6.ppt	<b>PEDNA Chapter 6</b>
Mon: 10/6		Class 10: Dr. Garrett: Introduction to phosphatidylated proteins <a href="#">Discussion of bioinformatic approach</a> <b>Lab:</b> if elsif and while loops	
Wed: 10/8		Class 11: Intro to Subroutines Garrett Project Gabriel Finite State Machine	<b>PEDNA Capter 7</b>
Mon: 10/13		Class 12: Sequence Alignment      Sequence Alignment	<b>UB: Chapters 4, 5, 7</b>
Wed: 10/15		Class 13	
Mon: 10/20		<b>Fall Break</b>	
Wed: 10/22		<b>Fall Break</b>	
Mon: 10/27		Class 14: Jodi not home from CA yet! Submit your Proj. 3 code Prepare 5-min pres. for Prof. Garrett A Random Lecture (in Jodi's absense): cs353-pedna-ch13.ppt	<b>UB: Ch. 6, Sec. 6.2</b>

<b>Wed: 10/29</b>		Class 15: Presentations for Prof. Garrett (first half hour)	Proj4: Due Monday 11/3: local_vs_global_alignments.doc
Mon: 11/3		Class 16: More about alignments Sequence Logo Headcount for CSHL	
Wed: 11/5		Class 17: Hidden Markov Models	
<b>Mon: 11/10</b>		Class 18: <b>Project 5: Assigned</b> (Modeling Molecular Evolution)	
<b>Wed: 11/12</b>		Class 19	Final Project Assignment Due in stages
Mon: 11/17		Class 20 <b>Final Project Teams</b> Sam and Phil: Identification of non-coding RNAs in Drosophila Carrie and Dan: Topic to be refined Jenny: Evolution simulator Gabe: Topic to be refined Amory: Hydrophobicity prediction tool	
Wed: 11/19		Class 21	
Fri: 11/21		<b>CSHL Field Trip</b> Itinerary and Directions! <a href="http://www.cshl.edu/public/SCIENCE/lucito.html">http://www.cshl.edu/public/SCIENCE/lucito.html</a> [ <a href="http://www.cshl.edu/public/SCIENCE/lucito.html">http://www.cshl.edu/public/SCIENCE/lucito.html</a> ] Robert Lucito: Cancer Genome <a href="http://www.cshl.edu/public/SCIENCE/ware.html">http://www.cshl.edu/public/SCIENCE/ware.html</a> [ <a href="http://www.cshl.edu/public/SCIENCE/ware.html">http://www.cshl.edu/public/SCIENCE/ware.html</a> ] Dooreen Ware: microRNA Evolution	
<b>Mon: 11/24</b>		Class 22: CSHL Discussion Proj 5 Alg Design Final Projects	
<b>Wed: 11/26</b>		Class 23: No class!	
Thur: 11/27		<b>Thanksgiving</b>	
Mon: 12/1		Class 24: Final Project Milestone: Draft of Introduction and Materials and Methods sections <b>Lab:</b> mutation_stats.pl Alignment File	
Wed: 12/3		Class 25	
Fri: 12/5		Draft of Results and Discussion sections	
<b>Mon: 12/8</b>		Class 26 Independent research presentations and pizza!!!	
Mon: 12/15		Final Paper due	