

ECOL 553L 2012 Computing Lab Schedule

Readings are from “Beginning Perl” by Simon Cozens <http://www.perl.org/books/beginning-perl/>

Other papers may be assigned as well

Lab Grades: Homework 40% Quizzes 50% Class Participation 10%
(lowest quiz grade and lowest homework grade dropped)

Lab	Date	Instructor	Topic	Reading	
1	Aug	21	Merchant	Introduction to Computational Lab	
2		23	DeBlasio	Survey of Bioinformatics Tool	
3		28	Solonenko	Survey continued	
4		30	DeBlasio	Introduction to Unix and the UA HPC	
5	Sept	4	DeBlasio	“	
6		7	DeBlasio	“	
7		11	DeBlasio	Command line tools for Genomic Data Analysis (NCBI blast suite)	
8		13	DeBlasio	Running Jobs on UA HPC systems	
9		18	DeBlasio	Introduction to Perl: strings, numbers, arrays	Beginning Perl, ch 1,2
10		20	DeBlasio	“	
11		25	DeBlasio	Perl arrays and hashes, control flow	Beginning Perl, ch 3,4
12		27	DeBlasio	“	
13	Oct	2	DeBlasio	Reading and writing files, wrapping applications in Perl	Beginning Perl, ch 6
14		4	DeBlasio	“	
15		9	DeBlasio	Perl Functions	
16		11	DeBlasio	Perl Review	
17		16	DeBlasio	Perl regular expressions	Beginning Perl, ch 5
18		18	DeBlasio	“	
19		23	DeBlasio	Perl regular expressions	
20		25	DeBlasio	Perl Subroutines, Modules, and Objects	Beginning Perl, ch 8,10
21		30	DeBlasio	“	
22	Nov	1	Solonenko	BioPerl	
23		6	Solonenko	BioPerl	
24		8	Solonenko	NGS Data Analysis	
25		13	DeBlasio	Genome Browsers	
26		15	DeBlasio	Perl Advanced Topics	
27		20	DeBlasio	Perl Review	
28		22	No class - Thanksgiving		
29		27	Merchant	Workflows	
30		29	Merchant	Scientific computing languages	
	Dec	4	TBA	TBA	