Class Schedule for 2013 EU-US Bioinformatics course, to be held at the University of Delaware, Newark DE USA, June 16-28, 2013

Time		Monday June 17	Tuesday June 18	Wednesday June 19	Thursday June 20	Friday June 21	Saturday June 22	Sunday June 23	Monday June 24	Tuesday June 25	Wednesday June 26	Thursday June 27	Friday June 28	Saturday June 29
7:30-8:30		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8:30-10	arrivals to PHL or car, bus, train in Newark, DE	Welcome, logistics Biddle/Glöckner	Sequence comparison similarity, identity substitution matrices (Glöckner)	Multiple alignment patterns, profiles, databases (Glöckner)	Introduction to NCBI (NCBI)	Metagenomic Assembly/MetAMOS (Todd Treangen)	Social outing to Philadelphia, a taste of American history		Analyzing diversity (Jed Fuhrman)	QIIME (TAs)	Integrating oceanographic data (Mya Breitbart)	MGRAST (Andreas Wilke)	Metatranscriptomes (Bill Orsi)	Departures, no formal activities or meals
10:00-10:45		The current state of marine omics (Biddle)												
10:45-11		BREAK	BREAK	BREAK	BREAK	BREAK			BREAK	BREAK	BREAK	BREAK	BREAK	
11:00		Overview of sequencing technology (Biddle)	BLAST	Uni Prot (Cathy Wu)	NCBI (continued)	Eukaryotes (Melody Clark)			Introduction Phylogeny (Glöckner)	Statistical comparisons for ecology (Bill Orsi)	Introduction to R (Orsi, Ramette)	CAMERA (TAs)	Meta-transcriptomes, continued	
12:00		Lunch at DBI	Lunch at DBI	Lunch at DBI	Lunch at DBI	Lunch at DBI		Brunch	Lunch at DBI	Lunch at DBI	Lunch at DBI	Lunch at DBI	Lunch at DBI	
13:00		Intro to DBI, set up of computers	Intro to dataset, quality trimming, analysis strategy (Biddle)	Alignment tools	Investigating NCBI	Viral metagenomics (Eric Wommack)			ARB and SILVA (Glöckner)	hands-on QIIME, using parallel datatset to week 1 metagenome	Metadata lecture (Biddle)	hands on MGRAST (Wilke, TAs)	Intro to RNAseq (Polson)	
14:00-14:45		Introduction to Linux I												
14:45-15:00		BREAK	BREAK	BREAK	BREAK	BREAK			BREAK	BREAK	Hands-on R demo	BREAK	BREAK	
15:00		Introduction to Linux II	BLAST n,p,x command line /web submission/submitting job	Data parsing, comparison to RefSeq/UniProt, etc.	Investigating EBI	hands-on investigation			taxonomic classification of sequences/TETRA/ Phymmbl (Bill Orsi)	hands-on QIIME, using parallel datatset to week 1 metagenome (TAs)	follow up on QIIME data	hands on CAMERA (TAs)	Follow up on data, summary of observations	
16:00		Introduction to Linux III									combine with metadata			
17:00	Welcome reception	return to campus, Dinner 4:30-6:30	return to campus, Dinner 4:30-6:30	BREAK	return to campus, Dinner 4:30-6:30	return to campus, Dinner 4:30-6:30		Dinner	return to campus, Dinner 4:30-6:30	return to campus, Dinner 4:30-6:30	off campus dinner	return to campus, Dinner 4:30-6:30	return to campus, Dinner 4:30-6:30	
18:00														
19:00		Lessons from GOS (John Heidelberg)	Challenges of metagenomic data analysis and integration (Renzo Kottmann)	off campus dinner	Comparative Metagenomics and Modeling (Jack Gilbert)				News about the Tara-Oceans expedition (Colomban de Vargas)	Biomes (Alban Ramette)		Metagenomic comparisons (Mya Breitbart)	Summary, evaluation	
20:00									After hours help	After hours help		After hours help		
21:00														
22:00														
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