Agenda: Networks Tutorial	
Monday	
8:00am	Breakfast at NIMBioS
9:00am	Welcome to NIMBioS from Director Gross
9:15am	Quick Getting-to-Know Each Other
9:30am	What is a Network (including representations and notations) (Fefferman)
	Directed vs. Undirected
	Weighted vs. Unweighted
	Colored vs. Uncolored
	Time varying vs. Static
	Random Networks
10:30	Coffee Break
10:50	Standard Descriptive Network Measures (Fefferman)
	Clustering Coefficient
	Motifs
	Shortest Paths
	Centralities
12:00pm	Lunch
1:00pm	Distributions (Gallos)
	Centrality distributions
	Power Laws
	Self-similarity
2:30pm	Coffee Break (including minor trouble shooting of running Python and NetworkX software)
3:00pm	Calculating Descriptive Network Measures in Python (Suarez)
0.000	Basics of python and networks package
	Create different graphs
	 Analyzing standard measures
4:45pm	Taking Stock of the Day – Recap and Issues
5:00pm	Reception at NIMBioS
	Dinner on your own
Tuesday	
8:00am	Breakfast
9:00am	Community Detection (Fefferman)
	Partitioning
	Hierarchical Clustering
	Partitional Clustering
	Spectral Clustering
	Random Walks
	Spin-Sync Models
10:15am	Coffee Break
10:30am	Percolation (Gallos)
	Process
	Thresholds
	Correlations
	Some analytical calculations

12:00pm	Lunch
1:00pm	Dynamic Networks (Fefferman)
	Rewiring Models
	Growth Models
2:00pm	Plotting Network Diagrams (Suarez)
3:30pm	Coffee Break
3:50pm	Network Resilience (Fefferman; Gallos)
4:50pm	Taking Stock of the Day
5:00pm	Adjourn (Dinner on your own)
Wednesday	
8:00am	Breakfast at NIMBioS
9:00am	Dynamical Processes on Networks (Gallos)
	Epidemics
	Opinion Spreading
	Flock behavior
10:15am	Coffee Break
10:35am	Simulating a dynamical process on networks (Suarez)
12:00pm	Closing Remarks (All)
12:15pm	Lunch and Departure