

Syllabus for Biostatistics II

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Course text: The course is based entirely on instructor notes and no text is required. The book *Fundamentals of Biostatistics* by Bernard Rosner is a recommended reference.

40% of the grade will be based on the final exam, 40% on quizzes, and 20% on homework.

Homework is due the day after the relevant lab session at noon.

Syllabus for biostatistics II: All classes meet from 8:30 to 12:00 on Monday and Wednesday.

	Topics	Presenter
8/26/19	Non parametric survival analysis, logrank and generalized Wilcoxon tests, Cox regression analysis	Schechtman
8/28/19	Lab: Non parametric survival analysis	Schechtman
9/2/19	Labor day – No class	
9/4/19	Generalized linear models including Poisson regression and probit analysis	Wallendorf
9/9/19	Lab: generalized linear models	Wallendorf
9/11/19	Longitudinal data analysis, mixed models and GEE models	Chen
9/16/19	Longitudinal/mixed models (continued)	Chen
9/18/19	Handling missing data in longitudinal models	Chen
9/23/19	Lab: longitudinal models	Chen
9/25/19	Reading medical literature, a classic clinical trial	Schechtman
9/30/19	First half: Basics of sample size computations. Second half: Collecting high quality data in clinical research.	Schechtman
10/2/19	Resampling methods	Wallendorf
10/7/19	Lab: Resampling methods	Wallendorf
10/9/19	Introduction to bioinformatics and statistical genetics	Gu
10/14/19	Fall break – no class	
10/16/19	Final exam	Schechtman