

Approximate Course Schedule Biostatistics 201A

Exam times are fixed. Otherwise, the following schedule is only approximate and is intended to give you an idea of the amount of time to be spent on various subjects. Chapter numbers correspond to the 2nd edition of the Glantz and Slinker text, *Primer of Applied Regression & Analysis of Variance*. You should come to class prepared to ask questions as the material is presented. We will also periodically discuss current events related to statistics. You are encouraged to note such items in the news media and bring them to share.

Lecture #	Date	Day	Topics	Reading/Assignments
1	Sept. 23rd	F	Admin, Probability vs Statistics	
2	Sept. 26th	M	Inference: Intro to Estimation and Modeling	On-line notes
3	Sept. 28th	W	Inference: CIs, Hypothesis Tests	CH. 7: 274-278
4	Sept. 30th	F	Power, Effect Sizes, Robustness	Handout
5	Oct. 3rd	M	ANOVA: Basic Concepts	Ch 7: 281-293, HW 1 Due
6	Oct. 5th	W	Linear Combinations and Contrasts	Ch 7: 302-335
7	Oct 7th	F	Multiple Comparisons	Handout
8	Oct. 10th	M	Correlation, Intro to Linear Regression	Ch1: 1-10, HW 2 Due
9	Oct. 12th	W	Sums of Squares and Model Fit	Ch 2: 10-24
10	Oct 14th	F	Inference & Prediction in Regression	Ch 2 25-49 Ch 3: 54-61
11	Oct. 17th	M	Intro to Multiple Regression	Ch 3: 54-61, HW 3 Due
12	Oct. 19th	W	Inference and Interpretation in MLR	Ch 3: 61-92
13	Oct. 21st	F	Indicator Variables ANOVA as Regression	Ch 3: 92-97 Ch 7: 291-302
14	Oct. 24th	M	Confounding, Adjustment and ANCOVA	Ch 10
15	Oct 26th	W	Midterm Review	HW 4 Due
	Oct. 28th	F	MIDTERM EXAM 8:00-10:00 a.m.	Note: No Discussion
16	Oct 31st	M	Mediation, Multicollinearity	Ch 5
17	Nov. 2nd	W	Interactions and Moderation	Ch 3: 97-107
18	Nov. 4th	F	Plynomial Regression, Transformations	Ch 4: 150-167
19	Nov. 7th	M	Regression Assumptions, Residual Analysis	HW5 Due, Ch 4: 113-120
20	Nov. 9th	W	Influence, Leverage and Outliers	Ch 4: 121-150
	Nov. 11th	F	VETERAN'S DAY-NO CLASS	
22	Nov. 14th	M	Model Selection, Hierarchical Principal	Ch 6, HW 6 Due
23	Nov. 16th	W	Partial Correlation, Partial F test	Ch 6
24	Nov. 18th	F	Intro to Generalized Linear Model	Ch 12: 607-618

Lecture #	Date	Day	Topics	Reading/Assignments
25	Nov. 21st	M	Logistic Regression & Odds Ratios	Ch 12: 607-618
26	Nov. 23rd	W	Inference in Logistic Regression	Ch 12: 618-643, HW 7 Due
	Nov. 25th	F	THANKSGIVING-NO CLASS	
27	Nov. 28th	M	Logistic Wrap-up, What Model When	Ch 12: 643-668
28	Nov. 30th	W	Non-parametrics & Bootstrap	Handout (Efron)
29	Dec. 2nd	F	Course Summary, Final Exam Review 8:00-10:00	Project Due
	Dec. 6th	Tu	FINAL EXAM—3:00 pm - 6:00 pm	