

**INTRODUCTION TO STATISTICAL ANALYSIS
BIostatISTICS 183
Fall 2016**

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Please include "BIostat183" in email subject lines so we can make sure that they do not get caught in spam filters.

Class Meetings: 10:00 a.m. to 12:00 p.m. N-217
Problem Session: 3:30 p.m. to 4:30 p.m. Tuesdays in N-527

TEXTBOOK (On reserve in the UCSF Library)
Primer of Biostatistics (7th ed.) By S.A. Glantz (McGraw-Hill) – 2012

GRADING

Homework	20%
Midterm	30%
Final	50%

The grade on the final is the lowest grade you can get in the course. The midterm and final will be in class and open book.

HOMEWORK

Is assigned on this schedule and will be due one week after it is assigned. Homework will be graded and returned within one week. No late homework will be accepted. Appropriately annotated computer printouts may be submitted for selected problems, indicated with an asterisk on the assignment.

VIDEOTAPES of all lectures from a previous year (which are similar) will be available at Dr. Glantz' Center for Tobacco Control Research and Education (Campus Library, 530 Parnassus Ave., Suite 366). Request from Jonathan Leff.

AUDITORS

Welcome if they do homework and take tests.

CLASS SCHEDULE, READING AND HOMEWORK ASSIGNMENTS

Thursday, September 22	<i>Introduction Sampling, Experimentation, Measurement</i> Reading: Chapter 1 and 2 Homework: Critique "Mortality before and after the 2003 Invasion of Iraq," by Roberts et al <i>Lancet</i> 2004; 364 (9448): 1857-64
Tuesday, September 27	<i>Descriptive Statistics</i> Homework: Chapter 2: Probs. 2.2-2.5
Thursday, September 29	<i>Analysis of Variance</i> Reading: Chapter 3
Tuesday, October 4	<i>Analysis of Variance (continued)</i> Homework: Chapter 3: Probs. 3.1, 3.4-3.6, 3.7*
Thursday, October 6	<i>t-tests, Multiple Comparisons</i> Reading: Chapter 4
Tuesday, October 11	<i>Multiple Comparisons (continued)</i> Homework: Chapter 4: Probs. 4.1, 4.2, 4.4, 4.5, 4.8*, 4.11

Thursday, October 13	<i>Rates and Proportions</i> Reading: Chapter 5
Tuesday, October 18	<i>Rates and Proportions (continued)</i> Homework: Chapter 5: Probs. 5.2*, 5.3, 5.5-5.7, 5.10, 5.13
Thursday, October 20	<i>Power and Sample Size</i> Reading: Chapter 6 Homework: Chapter 6: Probs. 6.1-6.3, 6.9, 6.10
Tuesday, October 25	<i>Confidence Intervals</i> Reading: Chapter 7 Homework: Chapter 7: Probs. 7.2, 7.5, 7.6
Thursday, October 27	<i>Regression and Correlation</i> Reading: Chapter 8
Tuesday, November 1	MIDTERM (Will cover material through October 21)
Thursday, November 3	<i>Regression and Correlation (continued)</i> Homework: Chapter 8: Probs. 8.1*, 8.2*, 8.3, 8.6*, 8.9*, 8.10
Tuesday, November 8	<i>Repeated Measures</i> Reading: Chapter 9
Thursday, November 10	<i>Repeated Measures (Continued)</i> Homework: Chapter 9: Probs. 9.1, 9.2*, 9.4
Tuesday, November 15	<i>Nonparametric Methods</i> Reading: Chapter 10
Thursday, November 17	<i>Nonparametric Methods (continued)</i> Homework: Chapter 10: Probs. 10.1-10.3, 10.7
Tuesday, November 22	<i>Survival Analysis (survival curve)</i> Reading: Chapter 11
Thursday, November 24	Thanksgiving Holiday
Tuesday, November 29	<i>Survival Analysis (continued),</i> Reading: Chapter 12 Homework: Chapter 11: Probs. 11.1, 11.2, 11.3
Thursday, December 1	<i>Summary & Conclusion</i>
Tuesday, December 6	FINAL EXAM N217 (Noon - 3 p.m.)

*Appropriately annotated computer printouts may be submitted