

**INTRODUCTION TO STATISTICAL ANALYSIS  
BIostatISTICS 183  
Fall 2017**

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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 (Tuesdays and Thursdays)  
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

If you buy the book please make sure that you are buying the latest printing of the 7<sup>th</sup> addition. Please also order the book ahead of time. Sometimes shipping can take a couple of weeks.

**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.

**VIDEO** 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 28	<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, October 3	<i>Descriptive Statistics</i> Homework: Chapter 2: Probs. 2.2-2.5
Thursday, October 5	<i>Analysis of Variance</i> Reading: Chapter 3
Tuesday, October 10	<i>Analysis of Variance (continued)</i> Homework: Chapter 3: Probs. 3.1, 3.4-3.6, 3.7*
Thursday, October 12	<i>t-tests, Multiple Comparisons</i> Reading: Chapter 4

Tuesday, October 17	<i>Multiple Comparisons (continued)</i> Homework: Chapter 4: Probs. 4.1, 4.2, 4.4, 4.5, 4.8*, 4.11
Thursday, October 19	<i>Rates and Proportions</i> Reading: Chapter 5
<b>Tuesday, October 24</b>	<b><i>Rates and Proportions (continued)</i></b> Homework: Chapter 5: Probs. 5.2*, 5.3, 5.5-5.7, 5.10, 5.13
Thursday, October 26	<i>Power and Sample Size</i> Reading: Chapter 6 Homework: Chapter 6: Probs. 6.1-6.3, 6.9, 6.10
Tuesday, October 31	<i>Confidence Intervals</i> Reading: Chapter 7 Homework: Chapter 7: Probs. 7.2, 7.5, 7.6
Thursday, November 2	<i>Regression and Correlation</i> Reading: Chapter 8
Tuesday, November 7	MIDTERM (Will cover material through November 2) ( <b>Noon - 3 p.m.</b> )
Thursday, November 9	<i>Regression and Correlation (continued)</i> Homework: Chapter 8: Probs. 8.1*, 8.2*, 8.3, 8.6*, 8.9*, 8.10
Tuesday, November 14	<i>Repeated Measures</i> Reading: Chapter 9
Thursday, November 16	<i>Repeated Measures (Continued)</i> Homework: Chapter 9: Probs. 9.1, 9.2*, 9.4
Tuesday, November 21	<i>Nonparametric Methods</i> Reading: Chapter 10
Thursday, November 23	<b><i>Thanksgiving Holiday</i></b>
Tuesday, November 28	<i>Nonparametric Methods (continued)</i> Homework: Chapter 10: Probs. 10.1-10.3, 10.7
Thursday, November 30	<i>Survival Analysis (survival curve)</i> Reading: Chapter 11
Tuesday, December 5	<i>Survival Analysis (continued),</i> Reading: Chapter 12 Homework: Chapter 11: Probs. 11.1, 11.2, 11.3
Thursday, December 7	<i>Summary &amp; Conclusion</i>
Tuesday, December 12	FINAL EXAM N217 ( <b>Noon - 3 p.m.</b> )

\*Appropriately annotated computer printouts may be submitted