ST210: Homework Assignments

(Text: Mann)

Spring 2010 Section 102

Topic	Topic/Sections Covered	Homework Assignment	Book Sections*
1	Introductory Terms and Concepts	Page 8, #3, 5, 7; page 12 #15, 17; page 15 #21	Chapter 1 **HW#1: 01/14/10**
2	Sample Surveys, Sampling Techniques, and Design of Experiments	Page A14 #17, 24	Appendix A **HW#2: 01/21/10**
3	Frequency Distributions, Bar Graphs & Pie Charts	Page 33 # 5, 7	Section 2.2 **HW#2: 01/21/10**
4	Frequency distributions & Histograms/Shapes of Histograms	Page 48 #19	Section 2.3 and 2.4 **HW#3: 01/26/10**
5	Stem & Leaf Displays	Page 58 #53	Section 2.6 **HW#3: 01/26/10**
6	Time Series	Not in textbook	
7	Measures of Central Tendency for Ungrouped Data	Page 83 #1, 3, 5, 7, 8, 23	Section 3.1 **HW#4: 01/28/10**
8	Measures of Dispersion for Ungrouped Data	Page 91 # 37, 39, 47, 57	Section 3.2 **HW#4: 01/28/10**
9	Chebyshev's Rule and the Empirical Rule	Page 105 # 79, 83	Section 3.4 **HW#5: 02/02/10**
10	Measures of Position	Page 111 #97	Section 3.5 **HW#4: 01/28/10**
11	Box and Whisker Plots	Page 113 #101	Section 3.6 **HW#5: 02/02/10**
12	Experiment, Outcomes, and Sample Space	Page 137 #5, 11, 13	Section 4.1 **HW#6: 02/09/10**
13	Calculating probability	Page 143 #15, 17, 19, 25, 27, 33, 35	Section 4.2 **HW#6: 02/09/10**
	Exam 1		**02/11/10**
14	Random Variables	Page 190 #1, 3, 5	Section 5.1 **HW#7: 02/25/10**
15	Probability Distribution of a Discrete Random Variable	Page 196 #7, 9, 11, 13	Section 5.2 **HW#7: 02/25/10**
16	The Mean and Standard Deviation of a Discrete Random Variable	Page 204 #25, 27	Section 5.3 and 5.4 **HW#7: 02/25/10**
17	The Binomial Probability Distribution	Page 221 # 51, 65, 67	Section 5.6 **HW#8: 03/04/10**
18	Continuous PDs, the Normal PD, and Areas Under the Standard Normal Distribution	Page 263 # 1, 3, 7, 15, 21, 25	Sections 6.1 - 6.3 **HW#9: 03/09/10**
19	Standardizing a Normal Distribution and Applications	Page 274 # 39, 43, 49	Section 6.4 and 6.5 **HW#9: 03/09/10**
20	Determining Values Given and Area under the Normal Curve	Page 279 # 59, 61	Section 6.6 **HW#9: 03/09/10**
21	Sampling Distributions	Page 301 #1, 3, 7	Section 7.1 and 7.2
22	Mean and Standard Deviation of $\bar{x}$	Page 305 #9, 10, 11, 13, 19, 21	Section 7.3 **HW: Not collected**
23	Shape of the Sampling Distribution of $\bar{x}$	Page 311 #33, 35, 37 Page 316 # 49, 51, 53	Section 7.4 and 7.5 **HW: Not collected**

	Exam 2		
24	Introduction, Estimation of a Pop'n Mean with σ Known and Sample Size Determination	Page 348 # 1-7, 13, 15, 23, 25, 27, 31, 33	Sections 8.1 – 8.3 **HW#11: 04/06/10**
25	Estimation of a Pop'n Mean with σ Unknown	Page 357 #41, 57, 61, 63	Section 8.4 **HW#11: 04/06/10**
26	Estimation of a Pop'n Proportion for Large Samples and Sample Size Determination	Page 365 #87, 89, 91, 92, 93	Section 8.5 **HW#10: 04/01/10**
27	Introduction to Hypothesis Testing	Page 386 #1, 2, 6, 7, 9	Section 9.1 **HW#12: 04/08/10**
28	Testing the mean μ (σ known)	Page 397 #13, 36, 37, 41	Section 9.2 **HW#13: 04/13/10**
29	Testing the mean μ (σ unknown)	Page 409 #59, 61, 69	Section 9.3 **HW#13: 04/13/10**
30	Testing a proportion	Page 418 #74, 98, 89, 91	Section 9.4 **HW#14: 04/15/10**
	Exam III		
31	Hypothesis testing - two populations – independent samples	Page 477 #77, 79	Sections 10.1 – 10.3 **HW#15: 04/22/10**
32	Hypothesis testing - two populations – dependent samples	Page 465 # 53, 55	Section 10.4 **HW#16: 04/27/10**
33	Inferences About the Difference Between Two Pop'n Proprtions for Large and Independent Samples	Page 475 #69, 71	Section 10.5 **HW#16: 04/27/10**
34	Linear Regression, Coefficient of Determination and Inferences about β	Pages 568-469: #13.21, 13.24, 13.25, 13.26	Section 13.1-13.5
35	Correlation	Page 587 # 59, 61, 63, 67, 73, 77	Section 13.6
36	ANOVA	Pages 544-545: #12.13, 12.14, 12.16	Section 12.1- 12.2
	Comprehensive Final Exam		

* Students are strongly advised to read appropriate book sections.