

STT 520/CMH 620

BIOSTATISTICS FOR HEALTH PROFESSIONALS

Course Syllabus, Winter, 2009

Text: Biostatistics: A Foundation for Analysis in the Health Sciences, eighth edition, by Wayne W. Daniel

NOTE: the Review Exercises are given at the end of each chapter in a section entitled “REVIEW QUESTIONS AND EXERCISES.” While the review exercises will not be collected, the PROJECTs will be collected and graded. Solutions to those exercises for which solutions are not given in the back of the book are provided on my webpage:

www.math.wright.edu/People/Harry_Khamis/index.html,

go to the link “Students, See This!”

Reading	Review Exercises/ PROJECTs
Chapter 1: Introduction	1, 2, 6, 7
Chapter 2: Descriptive Statistics	3, 5, 7, 21, 26 PROJECT 1
Chapter 4: Normal Probability Distribution <i>(Read section 3.1 as an introduction)</i> <i>Read sections 4.1 and 4.5 – 4.8</i>	2, 4, 21, 25, 26, 29 PROJECT 2

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Chapter 6: Estimation <i>Read sections 6.1 – 6.6; you may omit the reading of “Population Variances Not Equal” from page 177 through the end of the section.</i>	6, 15, 17, 23, 24, 33 PROJECT 3
Chapter 7: Hypothesis Testing <i>Read sections 7.1 - 7.6 and 7.11; you may omit the reading of EXAMPLE 7.2.1, pages 219-223 and “Population Variances Unequal” from page 239 to the top of page 241</i>	1, 6, 9, 10, 20, 21, 25, 27 PROJECT 4
Chapter 8: ANOVA	1, 2, 6, 11, 29, 35* PROJECT 5
Chapter 8: ANOVA (continued)	4, 8, 9, 27, 28, 38* PROJECT 6
Chapter 9: Simple Linear Regression/Correlation <i>Read sections 9.1 – 9.5 and 9.8 - 9.9</i>	1, 4, 6, 9, 13, 27* PROJECT 7
Chapter 10: Multiple Regression/Correlation <i>Read sections 10.1 – 10.5 and 10.7</i>	1, 3a, 3b, 12*, 16* PROJECT 8
Chapter 12: Contingency Table Analysis <i>Read sections 12.1, 12.4 and 12.9</i>	6, 7, 21 PROJECT 9

*NOTE: the instructions for those exercises with an asterisk are given *prior* to the exercise itself; the instructions pertain to a group of several consecutive exercises, among which the given exercise is one.