

Dr. Robert E. Bailey

Text: Elementary Statistics (5th ed.) by Mario F. Triola

Course Content: Summary Statistics, Probability, Normal and Binomial Distributions, Confidence intervals, Hypothesis Testing, Correlation and Regression. This includes chapters 1 through 9 and 11 in the text.

Grading: There will be four tests at 150 points each, three computer projects for a total of 200 points, and a comprehensive final exam at 200 points. In general,

A:	900 to 1000 points
B:	800 to 899 points
C:	700 to 799 points
D:	600 to 699 points
F:	Below 599 points

Test Dates:

Sept. 14	Test One - Descriptive Statistics
Oct. 5	Test Two - Probability Distributions
Oct. 28	Test Three - Normal Distribution
Nov. 13	Test Four - Hypothesis Testing

Some Policies:

You can use your own notes, a calculator, and your textbook during the tests and final exam. (Make sure that you have the materials you need when you come to take a test.

It is your responsibility to notify your instructor or the mathematics department before the scheduled test if you have a conflict that keeps you from attending a test. Emergencies will be handled on an individual basis. Provisions will be made for legitimate excuses.

You also are responsible for work missed when you are absent. There is no policy on class attendance; however, it is to your advantage to be in class.

ALL STUDENTS HAVE AGREED TO ABIDE BY THE HONOR CODE. ALL WORK SUBMITTED FOR CREDIT IS ASSUMED TO BE THE WORK OF THE STUDENT.

EMORY UNIVERSITY



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Mathematics 107  
Homework Assignments

Monday, August 24 Introduction to Statistics

Section 1-2, p. 10: 1,3,7,9,15,17,19,21

Wednesday, August 26 Introduction to Statistics

Section 1-3, p. 19: 1-24

Friday, August 28 Introduction to Statistics

Section 1-4, p. 24: 1-15, 17, 18

Review, p. 26: 1,3,6,8

Monday, August 31 Representation of Data

Section 2-2, p. 39: 1-11 odd, 21, 23, 27

Section 2-3, p. 48: 1-4 all, 9-12 all, 17, 21

Wednesday, September 2 Measures of Central Tendency

Section 2-4, p. 61: 1,7,15,17,21,25,33

Friday, September 4 Measures of Variability

Section 2-5, p. 77: 1,3,5,7,11,17,19,23,27,31,32,34,35

Monday, September 7 Labor Day holiday

Wednesday, September 9 Descriptive Statistics continued

Section 2-6, p. 92: 21,22,23

Section 2-7, p. 100: 1,3,5,7

Review, p. 106: 1,3,4,5,6,7,14,18

Friday, September 11 Review for test

Monday, September 14 **Test 1 Introduction and Descriptive Statistics**

Wednesday, September 16 Probability

Section 3-2, p. 120: 1,3,7,9,13,21,25,27

Section 3-3, p. 130: 1,3,5,7, 9-12, 13-16, 17-20, 21-28,29,31

Friday, September 19 Counting

Section 3-6, p. 159: 1-19 odd, 20, 21-27 odd, 40

Monday, September 21 More Probability

Section 3-4, p. 141: 1-15 odd, 19, 21, 25-28, 29, 30, 31

**Computer program on Descriptive Statistics due**

Wednesday, September 23 More Probability

Section 3-5, p. 149: 1-11 odd, 15, 18

Review, p. 165: 1, 3, 5, 7, 9, 15, 19, 21, 23, 27

Friday, September 25 Probability Distributions

Section 4-2, p. 181: 1-19 odd

Section 4-3, p. 188: 1-11 odd, 19, 20, 21, 23, 24, 29

Monday, September 28 Binomial Distribution

Section 4-4, p. 203: 1, 5, 7-17 odd, 25, 27-30 all

Wednesday, September 30 Binomial Distribution continued

Section 4-5, p. 212: 1, 5, 9, 11, 13, 15, 20, 22-25, 29, 31, 33

Review, p. 216: 1, 5, 6, 7, 8, 15, 16

Friday, October 2 Review for test

Monday, October 5 **Test 2 Probability and Probability Distributions**

Wednesday, October 7 Standard Normal Distribution

Section 5-2, p. 232: 1-47 odd

Section 5-3, p. 239: 1-21 odd, 25, 31, 33, 35

Friday, October 9 Normal Distribution continued

Section 5-4, p. 246: 1-29 odd

Monday, October 12 semester holiday

Wednesday, October 14 Normal as Approximation to Binomial

Section 5-5, p. 256: 1,3,9-31odd, 33

Friday, October 16 Central Limit Theorem

Section 5-6, p. 269: 1-15odd

Monday, October 19 Review

Review, p. 275: 1,3,7,9,11,13,15

Wednesday, October 21 Estimates and Sample Sizes of Means

Section 6-2, p. 295: 1-23odd, 27, 31-39odd

Friday, October 23 Estimates and Sample Sizes of Proportions

Section 6-3, p. 306: 1-25odd

Review, p. 322: 1,3,5,9,25,27,29,23

Monday, October 26 Review for test

Wednesday, October 28 **Test 3 Normal Distribution; Estimates and Sample Size**

Friday, October 30 Testing Hypotheses about a Mean

Section 7-2, p. 345: 1,5,7, 9-29odd

Monday, November 2 Testing Hypotheses about a Mean continued

Section 7-3, p. 356: 13, 15, 17, 19

Section 7-4, p. 363: 1-25odd

Wednesday, November 4 Testing Hypotheses about a Proportion

Section 7-5, p. 372: 1,3,7,9,11,15,17,19

Review, p. 386: 5,7,9,11,15,17

Friday, November 6 Inferences from Two Means

Section 8-3, p. 423: 1,11,28; p. 444: 2a, 9a, 12a, 15a

**Computer Project on Testing Hypotheses about a Mean**

Monday, November 9 Inferences from Two Proportions

Section 8-4, p. 436: 1a-1d, 3,7,9,14,15,17,19,24;

p. 444: 1a, 10a, 13

Wednesday, November 11

Review for test

Friday, November 13

### **Test 4 - Hypothesis Testing**

Monday, November 16 Correlation

Section 9-2, p. 465: 1,3,9,11,13,17,23

Wednesday, November 18 Simple Regression

Section 9-3, p. 479: 3,7,9,11,13,17,23

Section 9-4, p. 490: 1,3,5,7

Friday, November 20 Multiple Regression

Section 9-5, p. 498: 1-8, 9-12, 13-16

Review, p. 504: 1-5,7,9,11,13,15

Monday, November 23 Analysis of Variance

Section 11-3, p. 562: 1,3,5,7; p.554: 9,11

Wednesday, November 25 and Friday, November 27 is Thanksgiving holiday

Monday, November 30 Review for Final

Wednesday, December 2

**Computer Project on Regression and Correlation**

Friday, December 4 Last day of classes