

Stat 214 TR
Elementary Statistics

Text: *Intro Stats*, 3rd edition, DeVeaux, Velleman, and Bock, Addison-Wesley, 2009

Prerequisites: A minimum ACT Math score of 27 or credit for MATH 100 or 105. A TI-83 series or TI-84 series graphing calculator is required.

This course provides an introduction to statistics for students from various disciplines. The mathematical prerequisite is an understanding of basic college algebra (MATH 100 or 105). The core topics are: graphical representation of data, descriptive statistics, random variables, probability distribution of a discrete random variable, binomial and normal distributions, confidence intervals, hypothesis testings, linear regression and correlation, inference concerning multinomial proportions, and contingency tables. The precise order of presentation, emphasis, and depth of coverage of specific topics will vary by instructor. The outline given below provides an indication of the topics covered, their location in the textbook, and approximate coverage time.

Lesson	Section and Topic	Assignment
1	1,2 - Stats Starts Here, Data	p. 16: 1,3,9,13,15,17
2	3 - Displaying and Describing Categorical Data 4 - Displaying Quantitative Data [48-56]	p. 40: 13,19,25,27 p. 78: 7,10,13[20,30],32[60,63],41
3	4 - Summarizing Quantitative Data [56-61]	p. 78: 13,14,32,41
4	4 - Summarizing Quantitative Data[62-72]	p. 78: 15,17,19,21,27,29,32,41,53[290,340]
5	6 - Standard Deviation, z, and the Normal Model	p. 147: 7,9,11,13,15,27,33,39,41,43,45
6	Review	
7	TEST 1	
8	12 - Sample Surveys 13 - Experiments and Observational Studies	p. 324: 1,5,7,11 p. 350: 1,7,17,19
9	14 - From Randomness to Probability	p. 379: 1,7
10	18 - Sampling Distribution for Proportion: [458-466]	p. 479: 1,11,13,23
11	19 - Confidence Interval for Proportion	p. 503: 1,3,5,7,11,27
12	20 - Testing Hypotheses for Proportion	p. 527: 1,3,5,7,15,23,25
13	22 - Comparing Two Proportions	p. 574: 1,3,7,15,19,25,29
14	Review	
15	TEST 2	
16	18 - Sampling Distribution for Mean: [466-478]	p. 479: 29,31,37,39,48
17	23 - Inferences About Means: Confidence Interval	p. 609: 1,3,7,11,13
18	23 - Inferences About Means: Hypothesis Testing	p. 609: 31,32,33,37,41
19	24 - Comparing Two Means	p. 640: 1,3,5,15,27,31,42,43
20	Review	
21	TEST 3	
22	26 - Comparing Counts	p. 712: 13,15,17,19,28,29,30,33
23	7 - Scatterplots, Association, and Correlation	p. 186: 1,5,7,11,15,25,27,28,33,37,41
24	8 - Linear Regression	p. 216: 1,3,5,7,9,13,45,47,57
25	CD - Analysis of Variance	p. CD: 1,3,5,9
26	Review	
27	Test 4	

Emergency Evacuation Procedure: A map of this floor is posted near the elevator marking the evacuation route and the **Designated Rescue Area**. This is an area where emergency service personnel will go first to look for individuals who need assistance in exiting the building. Students who may need assistance should identify themselves to the teaching faculty.

Last updated 18 August 2008.