Statistics

Text:	Elementary Statistics a Step by Step Approach Allan Bluman 6 th edition: publisher: McGraw-Hill

Supplemental	TI-83 or-84 graphing calculator
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Materials:	

Course	The purpose of this course is to develop the skills and concepts of
Description:	Probability and statistics. It is designed to help student whose
	mathematical background is limited to Algebra. It is a nontheoretical
	approach and is intuitive and supported with abundant examples. It will
	introduce the students using data, graphs and basic formulas to the nature
	of statistics use and improve their comprehension of the use of data.

Methods of	Students can be evaluated through tests, quizzes, daily practice sets,
Evaluation:	homework problem sets, quarterly exams, semester exams and/or any
	other form of evaluation instrument the instructor finds applicable to the
	course.

Pace of	Semester course: Chapters 1-6 and 10
Instruction:	
Course	At the end of this course students should be able to recognize and work
Objectives:	with the following:
Objectives:	 With the following: Basic vocabulary Descriptive and inferential statistics variables and types of date data collection and sampling techniques: random, systematic, cluster, other Observational and experimental statistics Uses and misuses of statistics: suspect samples, ambiguous averages, changing the subject, detached statistics implied connections, misleading graphs, faulty survey questions Using computers and calculators in statistics Organizing data; categorical and grouped frequency distributions histograms, frequency polygons and ogives; relative frequency graphs and distribution shapes other types of graphs: pie graphs, misleading graphs, stem and leaf plots measures of central tendency: mean, median, mode, midrange, weighted mean, distribution shapes measures of variation: range, standard deviation, variance, coefficient of variation, range rule of thumb, empirical or normal rule Measures of position; standard scores, percentiles, quartiles and davilae, outliers
	14. Samples spaces and probability; basic concepts, classical,
	 measures of central tendency: mean, median, mode, midrange, weighted mean, distribution shapes measures of variation: range, standard deviation, variance, coefficient of variation, range rule of thumb, empirical or normal rule Measures of position; standard scores, percentiles, quartiles and deciles, outliers Samples spaces and probability; basic concepts, classical,

complementary events, empirical, law of large numbers, subjective probability and risk taking 15. Addition rules for probability 16. Multiplication rules of probability 17. Counting rules 18. Probability distribution 19. Expectations
 24. regression 25. line of best fit 26. line equations 27. common sampling techniques
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