

Elementary Statistics (Online)

Course Preview Information



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Required Text: *Elementary Statistics: Picturing the World*, 6th edition by Ron Larson and Betsy Farber

* A scientific calculator is also required.

Important Course Note: This course is completely online, including office hours.

Course Objectives:

This course provides an introduction to basic concepts of statistics. It will allow students to have an understanding of contemporary statistics. Both descriptive and inferential statistics will be studied. General topics to be covered include: data classification, experimental design, frequency distributions, graphical display of data, measures of central tendencies, variation, and position, probability, discrete probability distributions, normal probability distributions, confidence intervals, hypothesis testing, correlation, and regression.

Prerequisites and Suggestions:

- Having knowledge of Algebra is recommended. This course will be using many formulas and it is imperative that you know how to simplify algebraic formulas.
- Being familiar with how to use the equation editor and insert equations in Microsoft Word is suggested. Some assignments will require you to complete work in this type of document to submit to me.
- **Having access to a scanner will be absolutely necessary since some assignments may need to be scanned in for submission.** If you do not have your own scanner, familiarize yourself with where scanners are located on campus, at your local library, or if a friend/neighbor has one you can occasionally use.
- Making sure that you are comfortable with using Plato is mandatory for success in this class. If you need assistance with Plato, visit or contact the Center for Instructional Technology (CIT) on campus.

Course Requirements:

Homework Quizzes – Quizzes on homework assignments will be posted once a week.

Case Studies – You will be responsible for completing one case study for each chapter. These will be assigned based on the concepts that we are learning for that chapter. Your write-up for the case study will include detailed answers to each question showing all work.

Plato Assignments – Throughout the semester I will give assignments that need to be completed and posted to the discussion forums. For these assignments, you will be required to use Standard English along with correct grammar.

Exams – There will be three exams throughout the semester. All three exams are mandatory to take.