

AP Statistics Course Syllabus

Brief Course Description

AP statistics is a college-level statistics course that will cover the four broad topics below. The course will cover chapter 1 - 27 of Stats: Modeling the World - Bock, Velleman, & DeVeaux

Exploring Data: Describing patterns and departures from patterns

Sampling and Experimentation: Planning and conducting a study

Anticipating Patterns: Exploring random phenomena using probability and simulation

Statistical Inference: Estimating population parameters and testing hypotheses

This course will allow students to collect, interpret, analyze, test, and make conclusions about data. It will also enable students to write statistical arguments with vocabulary and use technology to calculate, graph, display, and simulate data.

AP Statistics Course Breakdown by Nine Weeks

1st Nine Weeks

Ch 1 Stats Starts Here

Ch 2 Data

Ch 3 Displaying & Describing Categorical Data

Ch 4 Displaying Quantitative Data

Ch 5 Describing Distributions Numerically

Ch 6 The Standard Deviation as Ruler and the Normal Model

Ch 7 Scatter plots, Association, & Correlation

Ch 8 Linear Regression

Ch 9 Regression Wisdom

3rd Nine Weeks

Ch 20 Testing Hypotheses about Proportions

Ch 21 More About Tests

Ch 22 Comparing Two Proportions

Ch 23 Inference about Means

Ch 24 Comparing Means

Ch 25 Paired Samples and Blocks

Ch 26 Comparing Counts

Ch 27 Inferences for Regression

2nd Nine Weeks

Ch 10 Re-Expressing Data

Ch 11 Understanding Randomness

Ch 12 Sample Surveys

Ch 13 Experiments

Ch 14 From Randomness to Probability

Ch 15 Probability Rules!

Ch 16 Random Variables

Ch 17 Probability Models

Ch 18 Sampling Distribution Models

Ch 19 Confidence Intervals for Proportions

4th Nine Weeks

Review for AP Exam

AP Exam

College information

Colleges often require an introductory course, similar to this course for majors such as social sciences, health sciences, and business. This course is good preparation for science, mathematics, and engineering majors who often take an upper-level calculus based course in statistics. Students who successfully complete the course and receive a 3 or higher on the AP exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course.

AP Exam

By registering for this class, it is expected that you will be signing up for, preparing for, and taking the Advanced Placement Exam in May. This class is designed specifically to help you prepare for that exam. If your transcript displays AP next to a course then colleges would expect that you would be taking the exam for that course.

Student Expectations

Students must possess the following:

- An excellent attendance record
- Reading, Writing, and Math skills
- An exceptionally strong work ethic (assignments are done thoroughly, professionally, and on-time)
- The desire to do college-level work in high school

Grading Policy

Students will be given various forms of assessment which can include: Test, Projects with Presentations, Quizzes, Reading/Writing Assessments, Reading and Outlining each Chapter, Classwork & Homework Assignments.

Major Grades – 60%

Daily Grades – 35%

Reading/Writing Assessment – 5%

Homework Policy

Homework is essential in mathematics. It provides practice and familiarity with the subject that will help students gain a better understanding of the concepts. Homework assignments are expected to be completed by the due date. Expect to have homework daily.

Remember: This is a college course. I will do my best to prepare you for the exam in May, however, you must do your part by participating and studying!!