

Department: Math

Course #: 461A

Course Title: Advanced Placement Statistics

Grade: 11, 12

DESCRIPTION OF COURSE:

The *Advanced Placement Statistics* course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes; exploring data, planning a study, anticipating patterns, and statistical inference. The *AP Statistics* course is an excellent option for any student who has good problem-solving skills as well as solid language arts skills that are needed to interpret and write analyses of statistical word problems. A TI-83⁺ or TI-84 graphing calculator is necessary for success.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT
Exploring Data	1.5 weeks	2.6.11
Modeling Distributions of Data	2 weeks	2.6.11
Describing Relationships	1.5 weeks	2.6.11
Designing Studies	1.5 weeks	2.6.11
Probability	1 week	2.7.11
Random Variables	2 weeks	2.6.11
Sampling Distributions	1 week	2.6.11
Estimating with Confidence	1 week	2.6.11; 2.5.11
Testing a Claim	2 weeks	2.6.11; 2.5.11
Comparing Two Populations or Groups	1.5 weeks	2.6.11; 2.5.11
Inference for Distributions of Categorical Data	1 week	2.6.11; 2.5.11
More about Regression	2 weeks	2.6.11; 2.5.11

RESOURCES

Text: *The Practice of Statistics (4th Edition)*

Graphing Calculator (TI 84 Preferred)

Statistical Software Packages

Hathaway, Viva; Vicki Greenberg; and Ed Moulton. *Fast Track to a 5, Preparing for the AP Statistics Examination.*

Boston: Brooks/Cole Cengage Learning, 2012.