

**Jefferson County High School
Course Syllabus**

A. Course (Advanced Placement Statistics)

B. Department (Mathematics Department)

C. Course Description: The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

D. Grade Term (Full Year)

E. Grading Scale

<u>Range</u>	<u>Honors/ Regular</u>	<u>College-Level</u>	<u>A.P.</u>
93-100 A	4.0	4.5	5.0
85-92 B	3.0	3.5	4.0
75-84 C	2.0	2.5	3.0
70-74 D	1.0	1.5	2.0

F. Term Dates

- a. 1st 9 Weeks August 5, 2016 – October 7, 2016
- b. 2nd 9 Weeks October 8, 2016 – December 16, 2016
- c. 3rd 9 Weeks January 5, 2017 – March 15, 2017
- d. 4th 9 Weeks March 16, 2017 – May 25, 2017

G. Textbook(s) (The Practice of Statistics, fourth edition)

H. Other Required Reading

I. Other Resources

- a. Odysseyware
- b. Datastat
- c. The Stat Guy

J. Major Assignments

- a. Project - The Gummy Bear Launch
- b. Analyze ACT JCHS spring data
- c. Inference and conclusions

K. Procedures for Parental Access to Instructional Materials

- a. Aspen Parent Portal
- b. Instructor's Website
- c. Email Instructor: rsinard@jcboe.net
- d. Parent Teacher Conference
 - a. There are two designated conference dates during the school year. Parents who would like to request additional meetings may make appointments for conferences with the teachers (during their planning periods), counselors, or a principal by telephoning the school office.

L. Field Trips

- a. Any schedule fieldtrip will have a definite educational purpose and will reflect careful planning. Signed permission forms will be obtained when an off campus trip is planned.

M. Standards & Objectives

- a. I can explore and analyze data by using graphical and numerical techniques to study patterns and departures from patterns.
- b. I can collect data according to a well-developed plan if valid information is to be obtained.
- c. I can anticipate what the distribution of data should look like under a given model using the tool of probability.
- d. I can use statistical inference to guide the selection of appropriate models and draw supported conclusions.