**AP Statistics/Statistics school phone: (707) 693-6330, ext. 3004**

**Mrs. Cordier school email: scordier@dixonusd.org**

 **Website: www.scordier.weebly.com**

COURSE DESCRIPTION:

AP Statistics is the high school equivalent of a one semester, introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students use a TI-84 graphing calculator, Fathom, and Minitab statistical software, and Web-based java applets to investigate statistical concepts. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data. **The only difference between AP Statistics and Statistics is the pacing and assignments; all topics are the same.**

COURSE GOALS:

In AP Statistics/Statistics, students are expected to learn

*Skills*

* To produce convincing oral and written statistical arguments, using appropriate terminology, in a variety of applied settings.
* When and how to use technology to aid them in solving statistical problems

*Knowledge*

* Essential techniques for producing data (surveys, experiments, observational studies), analyzing data (graphical & numerical summaries), modeling data (probability, random variables, sampling distributions), and drawing conclusions from data (inference procedures – confidence intervals and significance tests)

*Habits of mind*

* To become critical consumers of published statistical results by heightening their awareness of ways in which statistics can be improperly used to mislead, confuse, or distort the truth.

COURSE OUTLINE:

These classes will follow the contents detailed in the textbook.

*Text:* The Practice of Statistics (5th edition), by Starnes, Tabor, Yates, and Moore, W. H. Freeman & Co., 2014. Website is:

[**https://www.macmillanlearning.com/Catalog/studentresources/tps5e#**](https://www.macmillanlearning.com/Catalog/studentresources/tps5e)

Topic Outline includes four Big Ideas

* 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: estimation population parameters and testing hypotheses

CLASSWORK, HOMEWORK, GRADING:

The class will be graded with these weighted percentages:

 Individual Tests (one per chapter)- 50%

 Individual Quizzes (at least one per chapter)- 15%

 Group Tests (one per chapter)- 5%

 Graded Homework/Projects/FRAPPYS- 20%

 (Several per chapter)

 Completed Notebook Problems (checked every Friday)- 10%

Grades will be determined by the following scale:

90 – 100% (A) 80- 89% (B) 70- 79% (C) 60- 69% (D) below 60% (F)

All assignments and assessments will be posted on my website and in the classroom every week.

 **NO LATE WORK WILL BE ACCEPTED!**

If you are having difficulty understanding the course material YOU will be the first one to know it. It is your responsibility to come in and get extra help so that you do not feel frustrated and lost. I am available during 1st period and at lunch on Tuesday, Wednesday, and Thursday.

ABSENCES:

It is your responsibility to let me know (if possible) when you are going to be absent. Upon return, it is your responsibility to turn in work and make up any missed assessments. The best way to avoid problems is communication!

CALCULATORS:

You need a graphing calculator for AP Statistics/Statistics. The best one to have is a TI-84 series. I have some available for you to check out, see me ASAP.

BEHAVIOR:

Acceptable school behavior is expected at all times. You are expected to work during class and use your time constructively. Any problems will be dealt with on an individual basis and appropriate consequences assigned. Any extremely inappropriate behavior will result in a referral to the assistant-principal.

EMAIL ME!:

Parents, please email me at **scordier@dixonusd.org** to acknowledge that you have read this document. Feel free to ask me any questions. Make sure you have your name and your daughter/son’s name in the email, as well as a contact phone number. I will be checking my spam folder and will reply to your email as confirmation.

AP STATISTICS EXAM:

The exam will take place on Friday, May 15th at noon. Many resources will be given to the students to succeed on this exam. We will be taking several practice exams, and throughout the year all material taught, homework, assessments, projects are leading up for a successful score!