

# AP STATISTICS

## 2017-2018 Syllabus

### General Information

**Teacher:** Sufyan Shahin

**Email:** sshahin@wcpss.net

**Lunch Tutorial:** All of lunch Tuesday/Wednesday/Thursday in Mobile 9

**Office Hours:** Thursdays 2:30-3:30

**Website:** Schoology

### Textbook:

Yates, Daniel S., Moore, David S. and Starnes, Darren S. (2003). *The Practice of Statistics*. W.H. Freeman and Company. 2nd Edition.

### Goals:

AP Statistics is the equivalent to a one semester, introductory, non-calculus based, college course in statistics. This course will introduce participants to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Participants are exposed to four broad conceptual themes:

- 1) **Exploring Data:** Observing patterns and departures from patterns.
- 2) **Sampling and Experimentation:** Deciding what and how to measure.
- 3) **Anticipating Patterns:** Producing models using probability and simulation.
- 4) **Statistical Inference:** Confirming models.

### Schedule of Topics

Chapters 1 through 14 will be covered. Students will be given the opportunity to prepare for the AP exam with extra review sessions in the spring. There will be small projects assigned to familiarize students with the process of designing and carrying out a project. Remember that this is a tentative schedule. Time will also be used to provide students training in the use of the statistics software on the TI-84 graphics calculator.

### \*\*Special Requirements:

Every student is expected to **read the material *prior* to the class** meeting. Assignments will be made from the text and other sources and will be checked for completeness as well as accuracy. It is essential that these assignments be completed to gain a thorough understanding of the material.

It is the responsibility of each student to meet deadlines. Failure to meet a deadline results a penalty of 8 points off for each day the assignment is turned in late. It is also expected that every student participate in class. Asking questions until understanding is reached is an integral part of the learning process.

## **Student Expectation**

- Students are expected to complete all homework and class assignments.
- Students are expected to actively participate in class activities and discussions.
- All students are expected to take the AP Exam, which will be May 13. There will be review sessions in the spring to prepare for this exam.

## **Class expectations**

- Be on time.
- Have a study group so that you can check on assignments and understanding.
- Be respectful of yourself and others. Disrespect is not tolerated.
- Avoid frequent absences. **Students who are absent are responsible for getting and handing in any makeup work.**

## **Tips on How to Succeed in this Class:**

- ✓ Ask questions!
- ✓ Be an *active* participant in class discussions.
- ✓ Do assigned problems before class and be prepared with questions.
- ✓ Read the textbook!
- ✓ Watch the videos!
- ✓ Take care of make-up work promptly.
- ✓ Show Mr. Shahin rough drafts of special problems or projects.
- ✓ Have a network of Stats students to help and be helped by.

This is a **college-level course** and will be conducted as such. Students are expected to be highly motivated and those who are can expect to experience success. Students are encouraged to come see me before school, after school, or during H.O.T. Lunch to discuss topics for which they need clarification.

## **Grading:**

Homework - 10%

Quizzes – 30%

Tests and Projects - 60%

## **Procedure for Make-up Tests and Quizzes**

Make up tests and quizzes must be made up within 2 tutorials of the missed test or quiz. For example, if you missed a quiz given on Wednesday, then you must take the make-up quiz on the following Thursday or Tuesday tutorial.

## **Textbook Policy:**

Every student will be assigned a textbook. Students are responsible for their assigned textbook. Students are not allowed to write in their textbooks, nor are they allowed to tear or otherwise damage the cover or pages of their textbooks.

**Recommended Materials:**

- TI-83 or -84 Plus graphing calculator preferred –Every student **must** have access to a graphing calculator for classwork and homework. If a student cannot purchase a calculator, he/she may borrow one for in class use only. Any calculator that is lost or damaged will result in a minimum charge of \$120
- TI-Graphlink recommended to connect the graphics calculator to computer for generating graphs for reports, projects, etc.
- Graph paper
- Colored pencils/markers
- Paper/pencils
- 3-Ring Binder

**Absence & Tardy Policies:**

Students are expected to be in class and **on time** everyday! Please refer to your student handbook for the Holly Springs High School tardy and absence policies. Students will have one day to make up assignments for absences 1 – 3. Students have 2 days to make up work for every day absent if they are absent more than 3 days.