

El Modena High School – 2018/2019

AP Statistics Management Plan

3920 Spring Street, Orange, CA 92869

AP Statistics

Mrs. Merlihan, Room 201

Course Overview

Statistics is the science of collecting, analyzing, and drawing conclusions from data. Our AP Statistics course consists of four statistical themes. The four themes are exploring data, sampling and experimentation, anticipating patterns and making inferences. As the course progresses, students will become statisticians able to analyze data and to predict outcomes. Therefore, this college level course requires the student to take command of their learning. Students will be responsible for preparing for class as they would in any college course.

Recommended Materials

Textbook: The Practice of Statistics – fifth edition
3 Ring Binder and Paper
Calculator – TI -83/TI - 84 or any statistical calculator
Assignments may be completed in pencil or pen.
Only items required for this class are allowed on your desk.

Cell Phones

Cell phones or any electronic devices will not be used during direct instruction. Netiquette points will be lost by students who are using cell phones or electronic devices at inappropriate times.

Attendance

Good attendance is necessary for success! It is the student's responsibility to complete any missed assignment for excused absences that include absences due to sports, assemblies, field trips and etc. Truant work cannot be made up and will result in a zero.

Grades are very important. Please ask for help when you find the need. I am here to help you succeed. El Modena's Academic Policy will be followed. Any cheating results in a ZERO. A semester grade of C or better is required to move to the next course.

Grade Scale

98% to 100 %	A+	80% to 82%	B-
93% to 97%	A	78% to 79%	C+
90% to 92%	A-	73% to 77%	C
88% to 89%	B+	68.5% to 72%	C-
83% to 87%	B	0% to 68.4%	F

Class Rules

1. *Be Punctual* – Be in your assigned seat and ready to work when the bell rings. Bring HERO if tardy.
2. *Be Respectful* – Show respect to others in speech and in actions. Keep your behavior under control at all times. Follow directions.
3. *Be Neat* – Take pride in your school and your appearance. Keep desk and books free of marks. Help clean up any mess in and around our classroom. Complete all assignments neatly and carefully.

All El Modena School rules will be enforced. Learning cannot take place in a non-productive environment. Behavior interfering with the learning process will not be tolerated. If a student makes a choice to ignore their responsibilities in the classroom, the following consequences will apply daily:

- 1st offense – teacher warning/consequence
- 2nd offense – teacher consequence and phone call home
- 3rd offense – phone call home/referral
- 4th offense – referral to room 402

Assignments, Quizzes and Tests

Classwork will be assigned daily and will be collected or checked for classwork/participation points. Homework will be assigned daily. Late assignments will receive half credit. Quizzes will be given periodically/daily as a formative assessment. Corrections will be offered for all quizzes. Tests will be given mid-chapter and at the end of every chapter. Students will be able to retake tests by completing test corrections and meeting with the teacher outside of class. All test retake scores will be averaged with the original test grade. A final exam will be given at the conclusion of each semester.

Category Weights for Grades

Tests	55%
Quizzes	10%
Homework, Class work, Projects	10%
Final	20%
Netiquette	5%

AP Statistics – Syllabus

The AP Statistics course is made up of four broad themes designed to prepare you to correctly calculate and interpret statistics that you will encounter throughout your years in college and into your chosen career.

The four themes are:

1. *Exploring Data*: You will organize data in order to recognize patterns and interpret the meanings of these patterns, as well as their limitations.
2. *Sampling and Experimentation*: You will plan and conduct studies to learn about sampling and design issues that may affect the validity and generalizability of your findings.
3. *Anticipating Patterns*: You will use probability theory to simulate and explore random phenomena.
4. *Making Inferences*: You will formulate hypotheses about populations, select appropriate tests and apply them to testing the hypotheses.

Course Participation

The AP Statistics course differs from other high school math courses in several ways. Mrs. Merlihan expects students are prepared to take responsibility for learning in much the same way as they would in a college course. Much of the learning is experiential; that is, students learn by doing rather than by watching an instructor work out problems. Significant problems require a team approach, as they do in the real world. As your learning about statistics grows, you *become* a statistician, examining solutions and their limitations much as a professional statistician or consultant would. The focus on algorithms is minimal. While formulas and procedures for obtaining statistics are part of the course, your task is to analyze, discuss and convey information.

Course Requirements

While success on chapter tests is likely to be a good indicator of mastery of course learning outcomes, students are also expected to

- master the use of the graphing calculator to calculate and display data;
- use computer application programs to explore the tools that statisticians use in their work;
- demonstrate their ability to communicate experimental and survey designs, data collection methods, findings and analyses in various ways;
- and interpret the statistics used in the media and professional literature in a number of scholarly contexts.

Homework

Homework is a requirement for this class and must be organized and legible. Unlike most math classes, the homework assignment will include *reading* sections of the textbook. Class lessons will make more sense if you read ahead. A comprehension or vocabulary quiz will be given weekly. Practice all calculator problems. You will be expected to have all the calculator skills you need for chapter tests, quizzes, the final and the AP test in the spring. Quizzes will be given during the course of the chapter as a formative assessment.

Projects

Three projects will be assigned: one during the first quarter, one during the second quarter and another after the AP exam. Each one will have guidelines and a scoring rubric. Make sure that you check that all requirements are met before handing in your project.

Office Hours

Lunch time – Tuesday through Thursday
4th period – Monday through Thursday
After school – Tuesday and Thursday

Contact Information

Remind app – preferred method
Email – kmerlihan@orangeusd.org
714-997-6331 Ext 3601 – leave a message

About Mrs. Merlihan

Room 201 where math magic happens!!!
My name is Mrs. Merlihan and I am your AP Statistics teacher. One of my goals for this school year is to create a solid foundation of mathematical thinking for you. I hope that this foundation will lead you to further your education in mathematics. Students will learn to think critically when solving real world problems. Problem solving is a highly desired skill in our ever-changing technological world and modern work place. Students will have the opportunity to work together with partners and in groups and activities that will strengthen their communication skills. I believe students can be successful in mathematics by focusing and completing their work and coming in for help when needed. I also believe the process of solving problems improves your ability to logically think through and tackle obstacles encountered in your life. I am here to help you be successful! Good luck this year and let's have some fun becoming statisticians. Many of the concepts we learn throughout the year will build upon themselves. It is extremely important to stay on track and ask for help when needed. Be a Vanguard. Be in the front of the pack as a leader.