



"Data don't make any sense,
we will have to resort to statistics."

Welcome to Statistics

Mark Keppel High School

TEACHER'S CONTACT INFORMATION

Teacher: Ms. May Ng

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Class Location: Room B119

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COURSE INTRODUCTION

Statistics is not only a branch of mathematics, but it is an essential tool to understand the real world. Businesses use statistics to predict consumer demand for a specific product, where medical researchers use statistics to see if a new cancer drug is effective. Politicians use statistics to survey the public for important information to help them win elections. In high schools and colleges, statistics is used to determine how many types of classes should be offered based on student needs. Statistics is applied to all walks of life, and without it, society would be lost in meaningless guesses and false assumptions. So, brace yourselves, STATISTICS.IS.EVERYWHERE!

In this class, students will learn to understand how data is used to make decisions concerning risk, social and consumer behavior, and quality control. At the end of this course, students should know how to 1) Organize data from looking at patterns and relationships; 2) Produce data to create authentic experiments using appropriate random sampling; and 3) Generate inferences by using probability and other statistical models.

UNITS OF STUDY (Tentative)

1st Semester

Ch 1: Introduction to Statistics

Ch 1-4: Experimental Design

Ch 2: Summarizing and Graphing Data

Ch 4: Probability

2nd Semester

Ch 3: Describing, Exploring, & Comparing Data

Ch 10: Correlation and Regression

Ch 8: Hypothesis Testing (Chi Square Test)

Ch 6: Normal Probability Distribution

REQUIRED CLASS MATERIALS (Check list)

eTextbook: Elementary Statistics 10th ed. Mario F. Triola

1 1/2" 3 Ringed Binder

#2 Pencil or 0.5/ 0.7 Lead Pencil

Black, Blue, Green, and Red Pens

Scientific Calculator or TI-83 Graphing Calculator

An Eraser

5 Notebook Tab Dividers

Highlighters

College Rule Lined Paper

Graph Paper

STUDENT CONDUCT

- 1) All students are to actively participate in class discussions and group projects.
- 2) Student's work and words will reflect honesty and integrity.
- 3) Students are to respect the opinions, ideas, and belongings of their fellow classmates and teacher.
- 4) Students are responsible for turning in their work on time.
- 5) Clean up after yourself and place all garbage in the trash.
- 6) Student is responsible for all materials covered and work assigned while absent.
- 7) Food, gum chewing, and drinks are prohibited in the classroom.
- 8) Ask questions when you are unclear about the assigned work or material.

GRADING

-Point system based on individual & group work, labs, tests, & quizzes.

-All assignments are graded using the following grading scale:

A = 90%-100%

B = 80%-89.99%

C = 65-79.99%

D = 58-64.99%

F = 57.99% & below

- Keep all assignments for the semester so you will have a record of your graded assignments.
- Tests are given at the end of each unit. (50-65 pts)
(Consists of M/C questions, Matching/Fill-in-the-blanks, Problem Sets, & Short Answer questions)
- Weekly Quizzes will be given. (20-25 pts)
- Pop quizzes are based on assigned readings, labs, and/or lecture notes. (2 pts max)
(Points earned from Pop Quizzes are considered “positive points” and will be added to the next major test.)
- Occasional group & individual presentations or projects (20-50 pts).
- Group labs are conducted and each student is required to complete a lab write-up. Due dates for each lab report will be announced by your teacher after the completion of the lab activity (total points may vary).

CLASS POLICIES

1. **Homework Packets:** Homework will be assigned 3 - 4 times a week. It will be collected at the beginning of class on the following day after it was assigned. It will be checked and stamped for accuracy and completeness. At the end of the unit, all homework and in class assignments will be assembled into a work packet and turned in for a grade. ****REMEMBER TO KEEP ALL YOUR WORK, ONCE RETURNED TO YOU, SO YOU CAN GET CREDIT FOR IT.**** (Each HW is worth approximately 2-6 pts)

2. **Statistics Binder:** You will be required to keep a Statistics Binder for all work done in this class. This should be a 1 1/2” thick 3-ring binder with notebook tab dividers. Dividers for the binder should be labeled: **“Calendars”**; **“Class Notes”**; **“Current Assignments”**; **“Labs”**; and **“Graded Assignments.”** Within each subsequent section, organize all notes, handouts, quizzes, etc...in chronological order according to the topic of discussion. Your notebook should also include notebook pockets to keep class handouts and loose papers in order. There will be notebook checks, so bring this to class everyday.

3. **Late Work Policy:** All assignments are due at the beginning of the period. Late work is accepted but the following deductions will apply:

- Labs may be turned in up to one week past due date, but 5 points will be deducted for everyday it is late in addition to an automatic 10 point deduction from the total points earned.
- Late Homework will not receive a stamp and a 50% point deduction will result for each late assignment in the work packet.

4. **Make-Up Work:** Work assigned before an absence is due the day you return. You will have 3 days to complete any work assigned during your absence. If after this time you have not turned the work in, you will receive a zero for the assignment(s). It is your responsibility to arrange make-up work with me the day you return to class.

5. **Cheating & Plagiarism:** If you are caught or suspected of cheating, helping a fellow classmate cheat, and/or plagiarizing someone else’s work as your own, you and your accomplices will get an automatic zero on that assignment. And be aware that further actions will be considered.

6. **Tutoring/Study Sessions:** Study sessions will be available a day before a Unit test and after school from 3:00pm-4:00pm. I will also be available via email. I will check my email on a daily basis, from 5:00pm-6:00pm. I will only read and respond to emails when students identify themselves to me.

KEEP A COPY OF THE COURSE SYLLABUS IN YOUR BINDER

Once you and your parent or guardian have read the information above, please sign, date, and return to Ms. Ng.

Student’s Name (Print)

Student’s Signature

Date

Parent or Guardian’s Name
(Print)

Parent or Guardian’s Signature

Date