

# AP Statistics—Ms. Lemmon—Room L1

**Introduction:** The purpose of AP 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: Observing patterns and departures from patterns
2. Planning a Study: Deciding what and how to measure
3. Anticipating Patterns: Producing models using probability theory and simulation
4. Statistical Inference: Confirming models

## **Prerequisites:**

1. A grade of C or higher in Algebra 2
2. Students must maintain an A or B to remain in this class. Students achieving a C at the quarter may be placed on probation until the semester. Any student receiving a D+ or lower will be automatically dropped from the class.

## **Required Materials:**

**Textbook:** Yates, Moore and Starnes *The Practice of Statistics TI 83/89 Graphing Calculator Enhanced 2<sup>nd</sup> Edition*

**Textbook:** Rossman, Chance, Von Oehsen *Workshop Statistics: Discovery with Data and the Graphing Calculator*

**TI 83 or TI 89 Graphing Calculator**

**Paper, Pencil, and Notebook:** Because of the nature of mathematics, ALL quizzes and tests must be done in pencil to receive full credit.

**Learning Outcomes:** Through the course of study students will:

Meet the College Board standards for AP Statistics (see PGHS website for quarterly content mapping and [http://apcentral.collegeboard.com/repository/ap03\\_cd\\_statistics\\_04\\_4328.pdf](http://apcentral.collegeboard.com/repository/ap03_cd_statistics_04_4328.pdf) for College Board outline on AP Statistics).

Use computer software as well as graphing calculators in their exploration of statistics.

Be prepared to take the AP Statistics exam.

**Expected School Wide Learning Results:** Through the incorporation of note and test taking skills, cooperative learning groups, exploration of real world mathematics, and the gaining of mathematical literacy; students will develop the ability

to: (WASC, 1999):

- Be effective communicators
- Be well-rounded individuals
- Be life-long, self-directed learners
- Be educated individuals
- Be responsible citizens

***Assessment Procedures: Student's Quarter grades will be evaluated by the following scale***

<i>Assignments &amp; Projects</i>	<i>Notebook</i>	<i>Tests &amp; Quizzes</i>
<b>40%</b>	<b>10%</b>	<b>50%</b>

Textbook Assignments are worth 4 points each and will be collected and given full credit, half credit, or no credit. ALL assignments must have a title (assignment number, name, date, and period) to receive any credit. Assignments must be turned in on time to receive full credit. Full credit will be given if ALL problems are attempted with order and organization.

Project Assignments will include response papers, group presentations, research assignments, Internet studies, and others. Projects will have varying points associated with them according to the complexity and depth of the assignment.

Notebooks will be checked throughout the quarter and collected once a quarter (one week before the quarter ends). Notebooks should have the following dividers:

1. Vocabulary
2. Class Notes
3. Textbook Assignments/Projects
4. Quizzes
5. Tests
6. Graphing Calculator Instructions

Quizzes will be given at random throughout each unit of study. Each quiz has the relative weight of ¼ of a test—25 points.

Tests will be given at the conclusion of each unit or part of a unit. Each test is worth 100 points. **MAKE UP** Tests must be done immediately on return to class. **Tests not made up immediately will be given a score of zero.**

Grades will be posted on the Internet. Students will have access to their grade via a screen name and password. Students will be responsible to check their grades and check for accuracy.

**Make Up Work:** Textbook Assignments, Projects and Tests can be made up for excused absences (see school policy for details on excused absences). If the student is absent the day an assignment is due and was present to receive the assignment, the assignment is due the very next day or hour that the student returns to school. If the student is absent the day the assignment is given, the student has 24 hours from day of return to turn in the assignment. This means that the student will potentially need to drop off an assignment on a day he/she does not have class. Tests must be made up immediately when a student returning to school during the student's own time. Students should plan on staying at lunch or after school to make up the test. Notebook quizzes will be given twice a quarter to establish a notebook grade. Quizzes can not be made up, however, one quiz per semester will be dropped. **This is a criterion based class, therefore, there is no extra credit available besides extra problems that may be offered intermittently on quizzes and tests.**

*Student's Semester grades will be evaluated by the following scale:*

<i>Cumulative Grade Semester 1/Semester 2 associated with assignments, projects, notebook, quizzes, and Tests</i>	<i>Final Exam 1<sup>st</sup> Semester/Final 2<sup>nd</sup> Semester</i>
<i>75%</i>	<i>25%**</i>

\*\*According to District Policy

**Grading:**

<i>Letter</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>F</i>
<i>+</i>	<i>Above 100</i>	<i>89.4-86</i>	<i>79.4-76</i>	<i>69.4-67</i>	
<i>Solid</i>	<i>100-93</i>	<i>85-83</i>	<i>76-72</i>	<i>66-62</i>	<i>Below 59</i>
<i>-</i>	<i>92-89.5</i>	<i>82-79.5</i>	<i>71-69.5</i>	<i>61-59</i>	

Grades are cumulative. In other words, after the first quarter of a semester, the grade does not start over but continues to the end of the semester. Quarter grades, therefore, are basically a report of student progress to that point, and are not counted separately and averaged together at the end of the semester.

**Classroom Expectations:** Every student has the right to learn in a safe and intellectually thought-provoking atmosphere, therefore, anything that disrupts the learning process is against class policy.

The ABC's of the Class are as follows:

Be on Time (**Tardy contracts will be enforced**)

Be Prepared (**Discipline contracts will be enforced for students not prepared**)

Be Engaged

Be Participant

Be Communicative (this includes no swearing in class)

Because of the block schedule, students have time at break and lunch to take care of personal needs (including using the lavatory). Students will be expected to take care of all personal needs during these times. Students need to leave class should be minimal.

**Contact:** Please feel free to leave me a message at your convenience on the school's voicemail system. My extension is 302. I can also be reached at the following email address: [njlemmon@sbcglobal.net](mailto:njlemmon@sbcglobal.net) or [nlemmon@pgusd.org](mailto:nlemmon@pgusd.org)

(cut here and return bottom portion)

<input type="checkbox"/>	I have the Internet and can access the math content standards from the PGHS website ( <a href="http://www.pgusd.org/math/contentstandards.htm">www.pgusd.org/math/contentstandards.htm</a> )
--------------------------	--

<input type="checkbox"/>	I don't have the Internet and would like a copy of the math content standards sent home
--------------------------	---

I, \_\_\_\_\_, have read and understand the contents of the course syllabus

(print student's full name)

\_\_\_\_\_

(student signature)

\_\_\_\_\_

(parent signature)