

## **AP Statistics Syllabus – Mr. Keenan**

### **Course Goals:**

AP Statistics is a challenging course designed to prepare students for the Advance Placement Exam for college credit. The goals of this course are for the student to be able to obtain and analyze data, to interpret the results of a statistical analysis, to design a study, and to be able to communicate findings both in writing and speaking. Students are exposed to four broad conceptual themes:

1. *Exploring Data*: Describing patterns and departures from patterns.
2. *Sampling and Experimentation*: Planning and conducting a study.
3. *Anticipating Patterns*: Exploring random phenomena using probability and simulation.
4. *Statistical Inference*: Estimating population parameters and testing hypotheses.

I expect a high level of respect in my classroom, to both fellow classmates and myself. I expect each student to come to class on time, prepared, and ready to learn. Above all, I expect each of my students to be prepared for the AP Exam at the end of the school year.

### **Primary Textbook:**

Bock, David E., Paul F. Velleman and Richard D. DeVeaux. *Stats: Modeling the World (2<sup>nd</sup> Ed.)* Boston: Pearson/Addison-Wesley, 2007.

### **Supplementary Textbooks:**

Daren S. Starnes, Yates, Dan, and David S. Moore. *The Practice of Statistics*, 4th Edition. New York: W.H. Freeman.

Peck, Roxy, Chris Olsen, and Jay Devore. *Introduction to Statistics & Data Analysis*. Belmont, CA: Thomson Brooks/Cole.

### **TI-83 Plus or TI-84 Plus graphing Calculators:**

Students will be required to each provide either a TI-83+ or TI-84+ graphing calculator. This calculator is necessary to better the learning experience in the classroom as well as a requirement for the AP Exam. It is important that the students become very knowledgeable of the capabilities of the TI. These calculators will be used on homework, quizzes, and exams for the entire AP Statistics course.

### **Additional Course Materials:**

The TI-84 graphing calculator, past AP Exam questions (both Multiple Choice and Free Response), Activities worksheets, Statistics Computer Software, SmartBoard, and Barron's AP Statistics Study Guides.

### **Assignments/Homework:**

Students will be expected to complete a warm-up task each day immediately upon entering my classroom. This assignment should be completed in no more than 5 minutes and will be collected daily as a graded assignment.

In addition, Homework will be given nightly as to stimulate and prepare students for the AP Exam. I expect students will show up on time to my class each day with the previous night's homework completed and ready to turn in. I am always willing to devote a small portion of class time to any questions a student may have on the homework assignment. Each homework assignment will be graded. Homework assignment sheets will be handed out at the beginning of each unit. Students will know all homework assignments and due dates in advance. This will ensure that students turn in their homework in a timely manner. I will not accept late homework, with certain exceptions. Lastly, Statistics is a very hands-on subject and students will be expected to participate in each and every class session. There will be a large number of in-class activities and projects, as well as group

discussions and group assignments. Each student will be graded on all of these assignments, either as a group or individually.

**Quizzes/Tests:**

Quizzes will be given weekly, not including other pop-quizzes or projects/activities that also count as a quiz grade. Missed quizzes cannot be made up, but I will drop each student's lowest quiz grade each quarter to accommodate.

Tests will be given at the end of each Unit. The first test will be the first week of school and will cover the Summer Assignment. Missed tests must be made up in the appropriate time frame to avoid a zero. These can be made up outside of regular class time.

**Grading:**

Tests:	50%
Quizzes/Projects:	25%
Daily Homework/Activities:	20%
Attendance/Class Participation:	5%

**Extra Credit:**

I award each student extra credit for after school study sessions. These sessions are generally an hour and give students a chance to practice problems, discuss homework, and discuss weaknesses in the material. I award each student one additional point on their quarter grade for each two sessions they stay after (half-point per after-school session). There are generally two of these sessions per week.

Extra credit is also awarded on homework assignments. Homework assignments are graded on a 4-point scale and each student has the opportunity to earn an extra point on perfect homework assignments. Perfect does not mean that each problem is done without flaw, but that the student has followed directions completely and has shown 100% effort. A grading rubric for homework assignments will be given to each student. Extra credit is awarded all year and I suggest students take advantage as it also helps them to grasp the AP material.

**Extra Help/Office Hours:**

Students and/or parents can always feel free to contact me via email: [keenanj@worc.k12.ma.us](mailto:keenanj@worc.k12.ma.us) at any time. I will be happy to answer any questions, make accommodations for make-up assignments or tests. I will be more than happy to provide additional instructional assistance to any student that requests/requires it. My after school hours will be posted.

Student: \_\_\_\_\_

Parent: \_\_\_\_\_