AP Statistics Syllabus
Ms. Brown

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Rm. 111
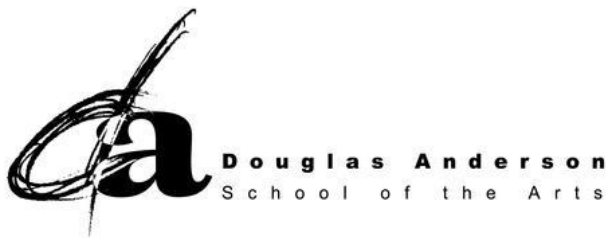
COURSE DESCRIPTION: AP Statistics is a non-calculus based college level statistics course. We will focus on data & statistical reasoning, with emphasis on statistical thinking, the ability to present more data and concepts with less theory and fewer recipes, and to foster active learning. This will be achieved using simulations, graphing, and computation capabilities of the TI-83/84 to promote active learning.

TEXTBOOK: Stats: Modeling the World, 4th Edition, Bock, Velleman, De Veaux.

COURSE MATERIALS: Students will be expected to bring the following items to class on a daily basis:
1) Textbook – Florida Algebra 2: Pearson 2015
2) 3-ring binder (2" minimum) with all work in chronological order
3) Notebook & Graph Paper
4) Graphing Calculator TI-83/84 *Cell phones _may not_ be used as calculators.
5) At least 2 pencils

COURSE OUTLINE:

FIRST NINE WEEKS
Unit 1 Sampling
    Chapter 11: Sample Surveys
    Chapter 12: Experiments and Observational Studies
    Chapter 10: Understanding Randomness
Unit 2 Graphical Displays:
    Chapter 1: Statistics Start Here
    Chapter 3: Displaying & Summarizing Quantitative Data
    Chapter 4: Understanding and Comparing Distributions
Unit 3 Standard Normal Distribution
    Chapter 5: Standard Normal Model
Unit 4 Linear Regression
    Chapter 6: Scatter Plots
    Chapter 7: Least Squares Regression

SECOND NINE WEEKS
Unit 5 Probability:
    Chapter 13: From Randomness to Probability
    Cahpter 14: Probability Rules!
Unit 6 Probability Distributions:

Chapter 16: Probability Models
Unit 8: Sampling Distributions
    Chapter 17: Sampling Distribution Models

THIRD NINE WEEKS
Unit 9: Standard Z Statistical Inference for a Mean
Unit 10: Student's T Statistical Inference for a Mean
    Chatper 22: Inferences about Means
    Chapter 23: Comparing Means
    Chapter 24: Paired Samples and Blocks
Unit 11 Standard Z Statistical Inference for Proportion
    Chapter 19: Testing Hypothesis About Proportions
    Chapter 21: Comparing Two Proportions
    Chapter 18: Confidence Intervals for Proportions
    Chapter 20: More About Tests and Intervals
Unit 12 Chi-Square Statistical Inference
    Chapter 25: Comparing Counts

FOURTH NINE WEEKS
Unit 13: Inference for Regression
    Chapter 26
REVIEW !! REVIEW !! REVIEW !! With at least four (up to 6), PRACTICE TEST!

STUDENT EVALUATION: Regular evaluation of students takes part on a daily basis. Student grades will be based on 4 different categories:
1) Test/ Projects(60%)
    This category represents major chapter or unit tests in the nine-week period, as well as a wide variety of projects which will be assigned throughout the year. These projects will be counted as test grades, and be score based on a rubric specifically designed for the given project. Students will be provided with scoring rubrics at the time the project is assigned.
2) Classwork / Homework (15%)

Homework will be given on a daily basis, and is expected to be in class and completed when it is due. Late homework will not be accepted. Students who are absent are expected to get the assignments that they missed from the assignment board, and have they turned in ass soon as possible. Absent students will have no longer than the number of days absent to get make-up work turned in. See the homework scoring rubric below for more details on homework grades.

3) Quizzes (20%)
   Regular in-class quizzes will be given to check students' progress and comprehension
4) Warm-Ups/Exit Slips/Class Presentation (5%)
   Each class period will begin with 3-5warm up problems intended to launch into the day's lesson. Warm-Ups will review prior knowledge needed for the lesson, or assess understanding of recently learned topics. Exit slips will assess understanding of the basics of the daily lesson. In addition, students will be expected to present selected problems to the class throughout the quarter.

A(90-100)
B(80-89)
C(70-79)
D(60-69)
F(59 and below)

HOMEWORK POLICY: Homework will be assigned nightly and collected the next class period at the beginning of the period. (I will not accept it after I have collected it). Homework will be worth a max of 10 points, which includes a completion grade and an assessment grade. It is VITAL for you to do your homework to succeed in this course! There will also be additional assignments given periodically through the online platform www.mathxlforschool.com. (More info coming later

Completion Grade:
100% complete (all work shown for ALL PROBLEMS and answers provided): 6 points
50-99% complete (work shown and answers provided): 3-5 points
0-49% complete (work shown and answers provided): 0-2 points

Assessment Grade: One randomly graded question. It will be graded similar to AP style (max 4 points)
Essentially Correct: 4 points
Almost Essential: 3 points
Partially Correct: 2 points
Almost Partial: 1 point
Incorrect: 0 points

Students who were absent for a homework check must show the instructor the missing homework immediately upon return to class (or the number of class periods absent if the homework was assigned while the student was not present). does not excuse you from taking the test/quiz. If you are absent the day of a test or a quiz, you will be required to take it the day you return to class, consequently missing new material, which you are responsible for, including the homework assigned that night.

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4TH QUARTER GRADING POLICY: Grades during the 4th quarter will be based entirely on practice AP Exams. All exams, whether Multiple Choice or Free Response will be graded AP Style. Fourth quarter grades will then be scaled to the following: A (4.0 – 5.0)
                                                    B (3.0 – 3.99)
                                                    C (2.0 – 2.99)
                                                    D (1.0 – 1.99)
                                                    F (0.0 - 0.99)

FINAL EXAM: Your final exam will consist of two parts. The first part is a 40 question Multiple Choice test similar to an AP Exam. The second part will be your ACTIVE participation during the AP Statistics Exam on Thursday May 12, 2016.

MAKE-UP POLICY: Regular attendance in this or any class is vital. As always, make-up work remains the FULL responsibility of the student. County policy states that make-up work due to absence is due the number of days absent following the student's return. Exams and assignments announced in advance will be taken and are due on the announced date regardless of a student's attendance prior to that date. Missing a review, the class period prior to a test does NOT excuse a student from taking a test. Upon return, it is the student's responsibility to check with another classmate to see what was missed. Please remember, that if you are absent on test day, you will be taking the exam the next class period, and you will be missing the beginning of the next chapter. You are still responsible for any homework assigned that day. **Absence Policy Students will have one class period per absent day to make up any missed work. It is your responsibility to get notes and assignments when you are absent, I will not remind you.**

CURRICULUM GUIDE ASSESSMENT: CGA's are Benchmark Exams, administered by the County, and will be given each quarter. These exams will reflect the topics covered during the quarter, and will be given at the end of each quarter. **The exam will count as a quiz grade.**

FLORIDA STANDARDS ASSESSMENT: At the end of the course, all students will be required to take a computer based statewide Algebra II assessment. There are no specific testing dates yet, but the exam will be given in late April or early May. In order for students to earn the Scholar Diploma designation, they must pass the Algebra II FSA exam.

EXTRA HELP: Extra help is available B-day after school from 3:30-4:00 p.m. in room 111. It is also available during Power Hour, and student tutors are available through the school's National Honor Society. Students should come prepared with specific questions – tutoring time will not be devoted to re-teaching class material, due to inattentiveness during class time or absence.

EXPECTATIONS FOR STUDENTS:
1) Be on Time

2) Come in, take your seat and prepare class materials: pencils, homework etc…

3) Respect the your fellow classmates

4) No food, drink, candy or gum

5) No electronic devices

6) Students are dismissed by the teacher, not the bell.

7) Respect the authority of all school personnel.