

NORTHLAND PREPARATORY ACADEMY
SYLLABUS:
STATISTICS AND APPLIED MATHEMATICS (SAM)
SCHOOL YEAR 2015 – 2016

TEACHER: Kymberly Stanoff
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REQUIRED TEXTBOOKS/MATERIALS:

- Prentice Hall Mathematics *Elementary Statistics: Picturing the World* (4th edition)
- 2 ½ -inch binder with loose-leaf paper and dividers
- Pencils and Pens (including a colored pen)
- **Graphing Calculator** (TI-84 or TI-83+. Do NOT get a TI-89)

COURSE DESCRIPTION:

In this course, students will use mathematics to model and analyze problems from the natural and social sciences. In order to perform effectively as professionals and citizens, students must become competent in quantitative data and in applying basic quantitative skills to the solution of real-life problems. This course will enhance the student's ability to understand and apply the language of mathematics.

Topics to be covered include descriptive statistics; inferential statistics; probability; linear, exponential or logistic growth and decay models; financial management; discrete models in scheduling, and organization of ordering of tasks. Appropriate use of units and dimensions, estimates, mathematical notation and available technology will be emphasized throughout the course.

PARTICIPATION/PREPARATION:

Active class participation and preparation in activities and discussions are required components of this course. If you miss class for any reason, it will be your responsibility to get the notes from one of your classmates or as posted on my website.

CLASSROOM RULES:

Along with the rules and regulations put in place by NPA,

- Be courteous and respectful to others.
- Make effective use of every minute of every class period.
- No Cell-Phones. If they are seen for any reason, they will be taken away with no negotiation.
- Cheating. If you are caught cheating, you will receive a zero for the assignment and be referred to the Dean.
- No food allowed. Drinks are allowed only if they have a non-spill top or lid.

GRADES:

Your quarter grades will be computed using the following approximate percentages:

Homework, Participation, and Class-work: 15%
Projects/Presentations: 15%
Tests and Quizzes: 70%

HOMEWORK:

Homework will be assigned regularly and every assignment will be reviewed for *completion* in the beginning of the following class period. Part of your homework is TO CHECK and CORRECT YOUR ANSWERS. To get credit for homework you must attempt ALL of the problems AND check/correct answers. Credit will not be given if you have not checked your work!

Late homework due to an EXCUSED absence will be given the same number of days that were missed, to be completed for full credit. UNEXCUSED late assignments will result in a zero unless we have spoken PRIOR to the due date. Repeated late assignments will result in detention(s).

TESTS/QUIZZES:

- If absent only the day before the test or the day of the test, then the test will be taken the first day back. If absent for more than one day prior to the test, then the test must be taken within 5 school days of returning.
- Students will have the option to *retake ONE Test* of their choice each semester. The retakes are optional and are required to be completed no later than two weeks prior to Final Exam week.
- It is the student's responsibility to meet with me and set dates and times to complete missed tests/quizzes or for retakes.

EXTRA HELP:

Students who are having difficulty with the lessons or with the homework should contact me **immediately** for extra help. I am usually available each day (except Thursdays) at 7:15 and will be available after school most days as well. Since quizzes and tests are 70% of your grade, it is in your best interest to see me before you take quizzes and tests if you are having any difficulty at all. Don't wait until the last minute to get help...it won't do you any good.

I have read and understood the above information:

Date

Name (print)

Signature

Period

I reserve the right to make any necessary changes to this syllabus. Any changes will be communicated in class.