**Precalculus Course Syllabus**

**Fall 2016**

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**Text:** Precalculus: Graphical, Numerical, Algebraic $66.00

6th Edition, Demana, Waits, Foley, Kennedy

**Required Materials:**

* 3-Subject Notebook and/or binder
* Writing Utensil
* TI-83 Series or equivalent Graphing Calculator (needed for second quarter)

**Course Description** **and Objectives**:

Pre-Calculus provides students an honors-level study of trigonometry, advanced functions, analytic geometry, and data analysis in preparation for calculus. Applications and modeling are included throughout the course of study. Appropriate technology, from manipulatives to calculators and application software, are used regularly for instruction and assessment.

The course will include topics such as vector operations, algebraic description of geometric figures in the coordinate plane, conic sections, modeling data using linear, polynomial, exponential, power, trigonometric, piecewise, logistic and logarithmic functions, using relations and functions to solve problems, composition and inverse of functions, polar equations, parametric equations, recursively-defined functions, and limits.

**NC Standard Course of Study Information is accessible at this web site:**

<https://www.dropbox.com/s/98oev8lbhsgd1o8/CMAPP%20Standards.pdf?dl=0>

**Quarter Grade Determination:** Grades for each quarter will be based on the following categories:

***Tests*:**

There will be approximately four to five tests given each quarter. These tests may include any information covered to date and count as 60% of your quarter grade. Tests **may be calculator active or inactive** - this will be announced on the unit schedule**.** There will be no retakes, extra points, or replacement of test grades.The midterm will not replace your lowest test grade, test corrections are HIGHLY recommended but will not earn points back on your test. **All assessments are timed**. Tests will be returned when they are graded for you to review to improve your understanding. **If you are absent the day of a test, you will be expected to take the Make-Up Test on the day you return** - the Make-Up Test will consist of different questions than the test taken by the class.

***Projects*:**

There may be one or more projects assigned during the course. These are generally longer and more involved than an ordinary homework assignment.

***Quizzes*:**

There will be several quizzes given each quarter - one to two per unit. These quizzes will be announced on the Unit Schedule. **If you are absent the day of a quiz, you will be expected to take the Make Up quiz on the day you return.**

***Homework*:**

Homework will be assigned nightly. In order to be successful in the class we HIGHLY recommend that you complete homework prior to a quiz or test. Solutions to homework will be available on Canvas. If you have questions about any problems, please ask in class or during SMART Lunch. Homework quizzes will be given prior to each test. Homework quizzes will consist of 4 questions from the assigned homework. It will be graded for accuracy on the 4-point scale. You will be able to use your notebooks to answer these questions. You will have 15 minutes to complete these quizzes.

***Student Engagement*:**

This category gives the student a variety of ways to influence his or her final average. Please refer to the separate Student Engagement Rubric for more detailed information. The number of points earned will determine the Student Engagement Grade.

**Absences:** If you are absent, it is your responsibility to catch up on missed assignments. Missed Quizzes and Tests will be made up on the day you return. Exceptions will be made on a case-by-case basis when discussed with your teacher.

**Quarter Grade Breakdown:** The quarter grade will be weighted and based on these percentages:

60% Tests

30% Quizzes

5% Homework Quizzes

5% Student Engagement

**Interim Grades:**

Grades are posted regularly online. Parents and students can access these grades through PowerSchool. Information on how to access this information is available through the main office. Posting grades online is in lieu of paper progress reports, including interims. If you desire a paper interim, please let me know.

**Final Examination:**

At the end of the semester, students will take a cumulative final exam, This exam, as noted below, will count as 20% of the student’s overall grade in this course.

**Final Grade:**

The final grade will be calculated as a combination of the student’s two nine-week grades and the Final Exam score weighted in the following fashion:

1st 9 weeks 2nd 9 weeks Final

40% 40% 20%

**WCPSS Grading Scale: Four-point Scale:**

A 90 – 100 4 100

B 80 – 89 3 89

C 70 – 79 2 79

D 60 – 69 1 69

F Below 60 0 40

**Extra Help:**

Extra help in Mathematics courses will be available during the SMART lunch sessions. For the Fall 2016 semester, these SMART lunch sessions will be held on Tuesday A-half and Thursday B-half.

**Canvas:**

Our course will also have its own Canvas site. Daily updates regarding assignments, assessments and miscellaneous topics can be found on this site. Due to the importance of the information given in the site, parents of students without regular internet access should inform the teacher **as soon as possible**.