**Course Name**: AP Calculus 1

**Department:** Mathematics

**Teacher:** Mrs**.** Laura K. Sulkes

**Date:**  August 20th, 2012

**Course Description:** Throughout the year we will be studying a variety of calculus concepts, including: functions, graphs, limits, continuity, techniques of integration and differentiation, optimization, related rates, definite and indefinite integrals, area, volume, and numerical methods.

**Goals:** Through problem solving, cooperative learning, discovery learning, the use of technology, and other methods, students will strive to internalize and understand these calculus concepts. During this learning process, they will inevitably develop their abilities and become better thinkers. In addition, students should successfully complete the Advanced Placement exam.

**Expectations:** Students are expected to come to class on time, fully prepared with homework and materials (listed below). Guidelines stated in the student handbook should be followed. Stated simply, students are expected to create a learning environment for themselves and others, and to take responsibility for active participation in the learning process.

**Grading Policy:** Grades will be based on performance on tests, quizzes, homework, AP problem sets, graded class work and projects.

* **Tests and quizzes** are always announced in advance and are mostly cumulative in nature. The lowest quiz grade will be dropped each quarter. If a student misses a quiz due to an excused absence, then that will be the one dropped and no make-up will be provided. However, if a student misses more than one quiz, then he/she must make up that quiz. All tests will be counted.
* **Homework**  will be assigned nearly every day and most will be graded on completeness, neatness and effort. Some assignments will be also graded for accuracy. Students must use the RE website to obtain the homework assignments. This is the student’s responsibility.
* **AP problem sets** will be assigned periodically throughout the quarter. These problem sets will be collected and graded for accuracy and neatness. Students may use their notes and textbook to help them through the problem set. In addition, the student may work with any student in an AP Calculus 1 class only. The student may NOT consult with a tutor on these problem sets. These sets are to be pledged.
* **Graded class work** may be given occasionally. Students will be asked to work on a problem or set of problems or concept in a group. Each student in the group may receive the group's score.
* **Projects** may be given occasionally.

**Quarters 1 – 4** grade will be determined as follows:

10% **-**  homework, problem sets, classwork, projects

20% - quizzes

70% - tests

100%

**Make-up Policy:**

If a student has an excused absence, he/she must make up all work missed. In general, there is a day’s grace period for each day absent. If a student is aware of an upcoming absence, he/she must make prior arrangements with me for the work missed. All assignments will be posted on the RE website. This is the student’s responsibility.

**Materials:**

Students are required to have a notebook, pencil, graphing calculator (preferably a

TI-84 plus), and books Calculus Early Transcendental Functions 4th Edition, by Larson, Hostetler, and Edwards, Cracking the AP Calculus (AB and BC) Examinations, by the Princeton Review

**Extra Help:**

I am available for extra help mostly after school. If you cannot come to the regular extra help after school, then you can make an appointment with me at a time good for both of us. A student that requests extra help must be prepared with specific questions, come with materials, and must have already reviewed the notes.

***I can be reached at*** [***lsulkes@ransomeverglades.org***](mailto:lsulkes@ransomeverglades.org) ***or 305-460-8218.***

***I look forward to being your teacher and guiding you through this fun and interesting course!***

