

**Maybeck High School**  
**Vladimir A. Duran**  
**AP Calculus Syllabus**  
**September 15, 2010**

**Grading percentages:**

Homework and Quizzes 15%

Math Labs 8%

Class Project 10% (Second Semester)

Exams 77% (First Semester) 66% (Second Semester)

**Homework** will be assigned most days (likely more than 95% of the time). It will be important for you to try to work problems out on your own. I will allow time at the start of most class periods to review the most difficult problems from the previous assignment. **Quizzes** will not be announced. If you miss a quiz you will not be able to make it up. If your absence is excused it won't count against your grade. **The Class Project** will be an independent activity that you will research and present to the class. **Chapter Exams** will be scheduled within a week of finishing a chapter. You will have the opportunity to take a new test on a chapter you receive a low score on, up until the date that we take the next Chapter Exam. The "Retake" Exam may cover more or different material from the same chapter. You will receive the grade on the Retake for your first two times each semester; after that, your grade will be averaged with the first test score. I may refuse you the opportunity to retake a chapter Exam if you have not worked with me outside of class during office hours, math lab or at some other time. The **Final Exam** will test your accumulated knowledge of all the material we cover over the semester. In addition you will be assigned two hours of **Community Care** time each semester. This means you will be helping other Maybeck students during Math Lab for eight 15 minute intervals.

**Materials and Tools:**

Pen or pencil will both be fine. Paper, including graph paper, could be needed at any time; please have some on hand for every class. We will explore the material both with and without the aid of technology. Maybeck requires you to have a TI-83 or TI-84 graphing calculator. If you are very comfortable with a similar calculator you may use it but there may be times when I won't be able to show you how to use a new function on your machine or be able to transfer a program to your calculator. In these cases, you will be solely responsible to keep up with the class.

**Curriculum:**

Each Chapter will take us about two to three weeks to cover. If all goes well we will cover chapters 2 through 6 this first semester.

Our Text:

**Calculus – Graphical, numerical, Algebraic** by Finney, Demana, Waits & Kennedy and published by Addison Wesley Longman, Inc.

Chapter 1 Prerequisites for Calculus (covered in Summer Assignments)

Chapter 2 Limits and Continuity

Chapter 3 Derivatives

Chapter 4 Applications of Derivatives

Chapter 5 The Definite Integral

Chapter 6 Differential Equations and Mathematical Modeling

Chapter 7 Application of Definite Integrals

At this point we will review and prepare for the AB exam. Students interested in taking the BC exam will need to cover the last three chapters independently.

Chapter 8 L'Hôpital's Rule, Improper Integrals, and Partial Fractions

Chapter 9 Infinite Series

Chapter 10 Parametric, Vector and Polar Functions (we're not likely to have time to cover this chapter.)