

AP CALCULUS BC
2010-2011

TEACHER: Mrs. Sandra L. Halfacre **ROOM:** 267

EQUIPMENT NEEDED: Textbook, TI89 calculator, Pencils, Graphing paper (may be printed off the web)

TIME COMMITMENT: Homework should take anywhere from 30 minutes to 1½ hours, depending on the type of assignment. BC Calculus is rigorous and a lot is expected of students. There is a lot of material to learn in a short time and most of the material is new to the students. Students must be aware of this and plan to be in class at **every** opportunity. In April and May, some activities may have to be curtailed in order to make room for the calculus. Please be aware of this and plan accordingly. Overextended students will have difficulties succeeding.

GRADING POLICIES: The following will be true on every paper.

1. All decimal answers must be correct to three decimal places.
2. Each free response problem will be worth 5 points.
3. Each multiple choice problem will be worth 2 points.
4. Free response problems with several parts will be worth 9 points each.

HOMEWORK: Homework is an important part of learning mathematics and will be assigned daily. Every assigned problem should be tried and the answer checked. It is permissible to discuss problems with other students or relatives. It is not permissible to copy another student's work. Do your best to think through the problems and understand why things work the way they do.

Your name and the assignment number should be in the upper right corner of the paper. On test days all homework associated with that test will be collected and graded.

Homework will be ***turned in daily and will receive a grade of 1-4 indicating the level of quality work.*** Problems that were not understood should be listed at the top. ***Late papers will lose a point for each day late.***

Some days you will have a homework group quiz. If your homework is completed, you may participate with your group in doing the quiz. If not, then you must move away from your group and work alone.

Homework should be corrected and added to as the material is better understood. Completeness, accuracy, and effort will all be considered.

Some actual homework problems may be included on tests.

GROUP WORK: Several times each six weeks problems will be given to groups of students to work. These may be general problems, calculator/computer labs, or projects. All group members will work on the problem. All papers will be turned in with the best one in the group on top. The top paper, agreed upon by everyone in the group, will be graded and everyone will receive the same grade. If a group cannot come to a consensus, then each student may turn in his/her own solution. Other times each student will be required to turn in a paper with his/her own work on it.

TESTS: Periodically, unit tests will be given. Tests may be cumulative in nature and will be take home tests. You should put your start time and your ending time on these.

An optional quarter test will be given at the end of each quarter. You may replace your lowest test grade with the quarter test grade. For my sake, do not take the test unless you have studied for it because it will contain questions similar to those that were most missed the first time around.

When tests are given back, you may correct them for 1/3 of your missed points back. You may work together to do the corrections. Working together means you may discuss the problems with one another. You write your own solutions, etc. You do not copy someone else's work.

The following things must be there in order to receive the points back.

- a) The correct answer must be supplied.***
- b) Reasoning and/or work must be included. This may require explaining in sentences.***
- c) List "hints to look for" to be able to do the question right in the future.***
- d) This should all be done on a clean sheet of paper and turned in stapled to the front of your graded test.***

REVIEWS: AP Reviews will be assigned each week consisting of 5 multiple choice questions and 2 free response questions for a total of 28 points each. They will be turned in every E day. *Late papers will lose 5 points for each day late.*

CLASS: Some days will be different from others, of course, but, in general, we will go over the new lesson first, discuss difficulties encountered in homework, and *have a group homework quiz from the previous night's work*. No more than 15 minutes will be spent going over homework.

WEBSITE: We will use Haiku as our class web page.

QUARTER GRADES:

Grades will be calculated according to the formula: $.4 \times DW + .6 \times T$

Daily Work 40% Tests 60%

MAKE-UP WORK: If you are absent you must make up the work as soon as possible. However, you must keep up with the current work at the same time. If instruction is necessary, make an appointment with me to go over the material. Class time will not be used to help one individual catch up. It is the student's responsibility to see me about make-up work when she returns from an absence. Zeros will be recorded for all work missed until it is made up.

Good attendance is of utmost importance in a mathematics class. I realize that sometimes absences are necessary, but I encourage you to keep them at a minimum. What goes on in class discussions is very important to your learning and cannot be made up.

EXTRA CREDIT: Extra credit is expected to be ongoing, not an end of the six weeks activity.

1. Website extra credit each quarter: Points are added to your daily grade.
2. The Problem of the Week: There are several. You may do as many as you like. Just follow directions. One point is added to your daily grade for each problem done correctly.
3. Board demonstrations of homework problems may be done for extra credit. One point is added to your daily grade for each problem you present correctly.
4. Periodically, as I find good problems for the students, they will be provided as extra credit. Points may be added to homework or to tests, depending on the nature of the problem.
5. Occasionally, a bonus problem will be put on a test and the points will be added to the test grade.

AP EXAM

DATE: Wednesday, May 4, 2011 -- in the morning

TEST FORMAT: 28 Multiple Choice questions without calculator (55 minutes)

17 Multiple Choice questions with graphing calculator (50 minutes)

(No deduction for wrong answers)

2 Free Response questions with graphing calculator (30 minutes)

4 Free Response questions without calculator (60 minutes)

YOU MUST BE ABLE TO DO THE FOLLOWING WITH YOUR CALCULATOR:

1. Produce a graph of a function.
 2. Find the solution of an equation.
 3. Find the derivative of a function at a particular point.
 4. Find the definite integral of a function.
- (Memories will not be erased.)

Several weeks before the AP exam we will do some very intensive reviewing.

CLASS RULES: * Follow directions

* Be in your seat when the bell rings

* Do not work on other subjects

* Do not leave the room except for emergencies and always ask before leaving