

AP Calculus BC

Welcome to AP Calculus AB. This Advanced Placement class is an exciting introduction to some of the wonders of mathematics. As this school uses 4x4 scheduling, we will cover many topics each day. This document will be the students' and *parents'* guide to the rules and procedures of our class; make sure this document and its contents are fully understood.

AP Calculus AB is comparable to one semester of college level calculus. We will fully discuss derivatives and integrals of two dimension functions, as well as differential equations. You will learn not only the techniques of calculus, but also the applications and uses of calculus. You will learn to think...you're mind will grow and you will find yourself doing amazing and fascinating things.

The AP Calculus AB Exam is on **Wednesday May 5, 2009 at 7:00am**. The cost of the exam is approximately \$96. The exam is optional, and financial assistance may be available.

Textbook: *Calculus, Early Transcendentals*, Sixth edition, Stewart, Cengage Publishing.

Supplies and Preparation: A three-ring binder is necessary for this class (though one is not needed exclusively for math). All notes, homework, and everything given out (quizzes, tests, handouts, etc.) are to be kept in the binder. Organization in this class is very importance. It is required for each student to bring binder, textbook, pencil, eraser, and **graphing calculator** to class daily. All work, unless otherwise specified, must be completed in pencil.

Calculator: A GRAPHING calculator is *required*. Mr. Shay will use Texas Instrument calculators: TI 83-Plus, 84-Plus, TI-Nspire (non CAS). Other styles and brands of calculators are allowed. There will have a limited number of calculators available for use that must remain in the classroom.

Grading: Grades for this class will be calculated with the following weighting:

70% **Assessment** (Exams, Quizzes, Projects, etc.)

20% **Final Exam**

10% **Practice and Participation** (Homework, Warm-Ups, Class work, Class Participation, Preparation, etc.)

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|------------|---|
| 90 – 100 % | A |
| 80 – 89% | B |
| 70 – 79% | C |
| 60 – 69% | D |
| 0 – 59 % | F |

Assessment: An exam will be given at the end of each unit, approximately every week or two. Quizzes may, or may not be, announced. They will be worth 10 to 50 points. Projects are being considered for this academic year. They may be a paper, presentation, activity, etc. When projects are assigned, appropriate points will also be assigned.

Homework: Homework will be assigned almost daily, at the end of each class block. Students should expect to spend 1 – 2 hours on each assignment. Assignments will be collected the following class meeting before the tardy bell rings. Credit for homework will be given on the basis of **completion** and **accuracy**. All work must be shown to receive credit. Complete as much of each problem as possible. Homework assignments will each be worth 4 points. Doing homework on a daily basis is necessary for successful completion of this class; therefore students may be given detention or alternate assignments for not turning in assignments.

Class Work, Preparation and Participation: Each class block will begin with the students completing a required warm-up exercise. These exercises are meant to develop past concepts and prepare students for what may be learned in future class periods. Students are expected to pay attention and be an active, positive and contributing member of the classroom community. Students will occasionally be given an assignment that will be collected immediately after completion. Poor classroom performance will not be tolerated. Students who are not seated in their seat with their homework turned in, notebook, textbook, and pencil out, and working on the warm-up when the tardy bell rings may lose points for that day.

Attendance: In order to fully comprehend AP Calculus, students need to be actively contributing to the class by being present in each class day. Any work returned after the due date because of an **excused** absence must be made up within one class meeting upon return. Quizzes and tests may not be made up during class time. Any work missed due to an **unexcused** absence or **tardy** cannot be made up and will result in a zero grade. Students are to be seated and prepared as outlined above, or they are considered tardy. It is the responsibility of the student to ask for missed work (either with the teacher or with a study buddy) and turn it in on the next class day. It is to the students' advantage not to fall behind as this course moves rather quickly. If students are absent for more than two days, they are expected to make arrangements to pick up any missed assignments.

Assistance: Anyone requiring or requesting further assistance with concepts in Calculus are recommended to seek extra help. Mr. Shay will be available daily at 7:30 a.m., during lunch and afterschool by appointment, and is usually unavailable after school. Successful students come from working together in teams, so I encourage them. Mr. Shay also has a helpful website at www.MrShayMath.com Mr. Shay can be reached via email at brian.shay@sduhsd.net.

Class Rules: Be **RESPECTFUL AND RESPONSIBLE**. Failure to do so may result in additional assignments, time spent after or before class, detentions, and referrals. All students are expected to follow SDUHSD rules and academic honesty policies.

Please sign below to indicate that this course outline has been read and understood.

Student Name and Signature: _____

Student Email: _____

Parent/Guardian Name and Signature: _____

Parent/Guardian DAYTIME Phone Number: _____

Parent/Guardian Email: _____