

ASMSA 2008/2009 AP AB CALCULUS SYLLABUS

6th Period, Admin 2409

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Office Hours: 2nd period, Tutoring: 3:15-4:00 Tuesday & Thursday

TEXTS: *Calculus* 3rd edition by Finney, Demana, Waits & Kennedy.

Calculus 2nd edition by Swokowski, Olinick, and Pence

BE SURE YOU GET THE 2ND EDITION OF Swokowski, Olinick, and Pence

COURSE DESCRIPTION

ASMS AP AB Calculus is a fast-paced course which is designed to enable students to succeed on the AP Calculus exam. All students are expected to take the AP Calculus exam in May. The Advanced Placement (AP) program is a cooperative educational endeavor between secondary schools and colleges and universities. For students who are willing and able to apply themselves to college-level studies, the AP Program enriches their secondary and post-secondary school experiences. It also provides the means for colleges to grant credit, placement, or both to students who have applied themselves successfully. The College Board administers the Advanced Placement Program. You may visit their website at

<http://www.collegeboard.org/ap/html/index001.html>

GOALS

The primary goals are that students obtain a firm understanding of one-variable Calculus so that they have a solid foundation to move on to more advanced Mathematics topics and courses **and** prepare them to succeed on the AP Calculus exam at the end of the year.

TOPICS

Most sections of Chapters 1-7 Demana-Waits text will be covered. Supplementary material on Limits, L'Hopital's Rule and Integration will be taken from the Swokowski text. Timelines with the assignments will be handed out on a regular basis.

GENERAL CLASS INFORMATION

You will be expected to make class presentations, individually and sometimes in groups. Assignments should be completed and ready for submission on due dates. **All assignments are due at the beginning of the class meeting for which they are due. See the student handbook for the ASMSA policy on late work and academic honesty.**

If you have questions not covered in class, attend tutoring, whether mine or that offered by other ASMSA mathematics instructors. I offer scheduled tutoring from 3:15-4:00 Tuesdays and Wednesdays. You are encouraged to work with other AP Calculus students, attend tutoring, or arrange additional time for me to assist you if needed.

ORAL PRESENTATIONS

It is important that you actively participate in the class in various ways. One important part of class participation is oral presentation and frequently you will have opportunities to make oral presentations. Oral presentations and class participation count 10% of your grade.

[OVER]

GRADES

You will be graded for mathematical skill, mathematical communication and completeness. You should write explanations, using complete sentences, for most problem situation. *Do not just repeat in words the mathematics you have done. Rather, explain the reasons for your process. Use the word “because”!* **All assignments are due at the beginning of the class for which they are assigned.** The ASMSA policies in the Student Handbook, page 10, on late work and Academic Honesty will be followed. **Each 9 week grade will consist of the following components: 50% for Exams, 40% for quizzes and assignments, and 10% for oral presentations and class participation. The semester grade will consist of 40% for each of the 9-week grades and 20% for the semester final exam. All students are expected to turn in all assignments up to the first exam. Students who earn at least 80% on this first set of homework assignments AND make an A on the first exam, will be exempt from turning in the next set of homework assignments. If your grade falls below the “A” level on the second exam, you must turn in the next set of assignments. This process applies to any set of homework assignments between two exams, but your overall grade must always be at least 80%. This process may be revised at any time by the instructor.**

NEEDS: TI-84 Plus calculator, three-ring notebook and paper, colored pencils and soft-lead pencils, metric and English ruler, and graph paper (all hand drawn graphs must be on graph paper using a size that is easy to read and clearly labeled). You are required to bring your TI-84 calculator to every class. Without it, you may not be able to complete a quiz or the in-class work. Do not submit work in ink.

MISCELLANEOUS

- You are most welcome to drop by my office or my classroom when I am not teaching; but, if I am busy, we can arrange another time for you to come by. I look forward to getting to know you.
- To do well you will need to be organized and complete work on time with a good effort. There is a strong correlation between those who are diligent in class and in doing homework and the grade earned for a course. You are required to bring your TI-84 calculator to every class. Without it, you may not be able to complete a quiz or the in-class work.