South Texas ISD
Science Academy
GRADES 9-12 | MERCEDES
900 Med High Dr. Mercedes, TX
956-565-4620

APPROVED
By Irma Castillo at 1:32 pm, Aug 07, 2020

Credits per Semester	**.5 credit per semester**
Instructor	Instructor: Haixin Guo Conference Period: _4_A and _4_B Email: haixin.guo@stisd.net
Course Description/Objectives	AP Calculus AB is primarily concerned with developing the students understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally, and the connections among these representations. Course study will include properties of functions, limits, differential calculus, and integral calculus. Use of symbolic differentiation and integration utilities is also included. The advanced placement course in AB calculus is intended to be an introductory college level calculus course. Students are introduced to the concepts and applications in three major topic areas: ● Functions, graphs and limits ● Derivatives ● Integrals
Required Instructional Materials	Instructional materials are listed on myOpenMath.com This course is based on Calculus Volume 1 by Gilbert Strang and Edwin "Jed" Herman, et al., published by OpenStax.org. There you can view the web text, download a pdf text, or purchase a print copy. © Nov 2, 2016 OpenStax. Textbook content produced by OpenStax is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike License 4.0 license. OpenStax, Calculus Volume 1. OpenStax CNX. Mar 30, 2016, https://openstax.org/details/books/calculus-volume-1
Instructional Methods	Lectures, multimedia elements, class discussions, projects, individual assignments, cooperative learning, etc.
Grading Procedures	The academic year is divided into four quarters or nine-week periods. The weight for each nine-week period will be 37.5 percent and the semester exam will weigh 25 percent.

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	There will be a minimum of 3 grades per student during each three weeks progress report grading period, as per district guidelines. This course will be comprised of 3 grading categories: Major Assessments 50%, Minor Assessments 30%, and Daily Work 20%. What constitutes major, minor, and daily work is determined per course. [major assessments= test; minor assessments=quiz; and daily work= homework]
Cell Phone and Technology Policy	Students are allowed to bring their own technology devices (laptops, iPads, tablets, etc.) to school. Use of these devices in the classroom is at the discretion of the teacher. Science Academy is not responsible for lost, damaged, or stolen devices.
Assessments	Frequently during the year, formative assessments will be given. These will be in the form of homework, written or oral quiz, readings and discussion, student writing, or tests. Feedback will be given on all formative assessments. The formative assessments are critical to learning because they provide feedback as to what essential learning we will focus on next. They will help influence and shape the process of learning while we still have time to improve before test or grades are given.
Retesting Procedures	Retests will be available to students upon receiving a failing grade. There may be prerequisites set by the teacher. The time and date for all retests is determined by the teacher. Any retesting assignment must be completed within one week of an excused absence.
Homework & Late Assignments	All work is due at the assigned time. Homework is due at the beginning of the class hour. **Late work due to absences:** Students absent on a day work is due shall receive a due date for the next class meeting. Assignments submitted electronically are due before the beginning of class time on the scheduled due date. Students who are absent on the day work is assigned will be assigned said work upon their return to class and given the same time frame for completion as originally assigned. Work turned in during this time shall receive full credit. **Late work not due to absences:** Late assignments should be turned in within a one-week period, but a deduction of 10 points will be applied per day (not class period).

***All district guidelines/policies supersede campus guidelines/procedures/systems.**