

Chino Valley Unified School District

High School Course Description

CONTACTS

1. School/District Information:	School/District: Chino Valley Unified School District Street Address: 5130 Riverside Dr., Chino, CA 91710 Phone: (909) 628-1201 Web Site: chino.k12.ca.us
2. Course Contact:	Teacher Contact: Jose Rivera Position/Title: AP Calculus AB/BC Teacher Phone: 909-606-7540 x 5148 E-mail: jose_rivera@chino.k12.ca.us

A. COVER PAGE - COURSE ID

1. Course Title	Calculus AB
2. Transcript Title/Abbreviation	Calc AB
3. Transcript Course Code/Number	5128
4. Seeking Honors Distinction	Yes
5. Subject Area/Category	Meets the "c" mathematics UC/CSU requirement
6. Grade level(s)	11-12
7. Unit Value	5 units per semester / 10 total credits – math
8. Length of course	Two (2) semesters / one (1) year
9. Was this course previously approved by UC?	Yes
10. Is this course classified as a Career Technical Education course?	No
11. Is this course modeled after an UC approved course?	Yes
12. Repeatable for credit?	Yes
13. Date of Board Approval:	May 5, 2016
14. Brief Course Description:	This course is taught at the rigor of a college level Calculus course. The course covers functions, limits and continuity, differentiation and integration of functions of a single real variable. Applications from higher level sciences are addressed as well. The class is similar in rigor to the AP Calculus course, but is taught at a slower pace.
15. Prerequisites	Integrated Math 1, Integrated Math 2, Integrated Math 3

16. Context for Course:
 In Calculus, we approach problems from each of the four major angles: graphically, numerically, algebraically, and verbally. Since calculus connects with so many other disciplines, especially physics, we take advantage of many opportunities to offer demonstrations and activities that allow the students to see and touch the calculus we learn.

Instructional Methods and/or Strategies are specifically geared to support the delivery of the curriculum and the course goals in a balanced fashion. Whole class instruction, small group instruction, discussion, think-pair-share, power point presentations, student demonstration, daily assignments, warm-up quizzes, and interactive instruction are all used on a regular basis for all portions of the course outline. Student presentations and projects are assigned and displayed for all units. Poster projects, Riemann Sum projects, Area and Volume projects are a few examples of larger student work than the typical daily assignment. Study guides are assigned for each unit. Students are encouraged to receive and/or provide peer tutoring to help reinforce their mathematical understanding. Instructional approaches support the eight Standards of Mathematical Practice in the Common Core State Standards as stated explicitly in items 1-8 below.