ESCONDIDO UNION HIGH SCHOOL DISTRICT

COURSE OF STUDY OUTLINE AND INSTRUCTIONAL OBJECTIVES

COURSE TITLE: AP Calculus AB and BC
COURSE NUMBER: (AB) 9263/2880   (BC) 2881 / 2882
DEPARTMENT: Mathematics
PRE-REQUISITE: Teacher Recommendation
LENGTH OF COURSE: One Year
SEMESTER PERIODS OF CREDIT: 5 per semester
GRADE LEVEL(s): 12
DATE ADOPTED: 1988 (Revised Course Description 3/10/15)
Textbook Board approved 6/20/17

MEETS UC “c” ADMISSION REQUIREMENTS

Meets EUHSD Mathematics Requirement

TEXTBOOKS: In addition to the EUHSD Board Approved textbook, teachers will utilize a variety of resources designed to assist students in meeting the requirements set forth by the College Board in preparation for the Advanced Placement Exam. In addition, Advanced Placement teachers are required to submit their Course Syllabus in accordance with College Board requirements and receive individual teacher approval to utilize a variety of instructional strategies and course materials in order to meet the requirements set forth in the Advanced Placement Course Guides.


COURSE DESCRIPTION:

AP Calculus AB
This course is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.
AP Calculus BC
This course is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

**For update on current course curriculum go to www.collegeboard.org**

10/31/18