

## Advanced Placement Calculus AB/BC

**Text:** Calculus, Stewart 6<sup>th</sup> edition

Course Description: ADVANCED PLACEMENT CALCULUS AB is a college level mathematics course. The topics for AP Calculus AB are divided into three major themes: 1) functions, graphs, and limits 2) derivatives, and 3) integrals.

Course Description: ADVANCED PLACEMENT CALCULUS BC is a college level mathematics course. The topics for AP Calculus BC are divided into five major themes: 1) functions, graphs, and limits 2) derivatives 3) integrals 4) polynomial approximations and series, and 5) the calculus of polar, parametric and vector valued functions.

The purpose of these courses is to prepare students for the AP Calculus test. **Students are required to pay for and participate in the College Board AP testing program.**

Students will also be charged a \$20 fee for WebAssign – an online homework site used by many colleges that provides students with video lessons and instant feedback on the problems. Students are assigned anywhere from 5 to 15 problems per night for homework. The purpose of the homework is to prepare students for regular assessments.

A graphing calculator is required for some problems on the AP Calculus exam.

Summer Work for BC (2018): Chapter 1 in Stewart's Calculus.