

**Jefferson County High School
Course Syllabus**

A. Course – AP Calculus AB

B. Department - Math

C. Course Description – AP Calculus AB 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 the representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

D. Grade Term – Semester, flexed year long

E. Grading Scale

<u>Range</u>	<u>A.P.</u>
93-100 A	5.0
85-92 B	4.0
75-84 C	3.0
70-74 D	2.0

F. Term Dates

- a. 1st 9 Weeks August 5, 2016 – December 16, 2016
- b. 2nd 9 Weeks January 5, 2017 – May 25, 2017

G. Textbook(s) – Calculus of a Single Variable, 7th edition, 2002, Houghton Mifflin Company

H. Other Required Reading

I. Other Resources

- a. Odysseyware

J. Major Assignments

- a. Calculator labs
- b. Midyear project
- c. End of Year project

K. Procedures for Parental Access to Instructional Materials

- a. Aspen Parent Portal
- b. Instructor's Website

- c. Email Instructor
- d. Parent Teacher Conference
 - a. There are two designated conference dates during the school year. Parents who would like to request additional meetings may make appointments for conferences with the teachers (during their planning periods), counselors, or a principal by telephoning the school office.

L. Field Trips

- a. Any schedule fieldtrip will have a definite educational purpose and will reflect careful planning. Signed permission forms will be obtained when an off campus trip is planned.
- b. Engineers Day, Oct 20, 2016
- c. Six Flags Over Georgia, Apr 28, 2017

M. Standards & Objectives

See p 11-20 for the Big Ideas listed as the course objectives of AP Calculus AB on the College Board website:

<https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-calculus-ab-and-bc-course-and-exam-description.pdf>

