

**Jefferson County High School
Course Syllabus**

A. Course – AP Physics C: Mechanics

B. Department - Science

C. Course Description - AP Physics C: Mechanics is equivalent to a one-semester, calculus based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

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) – Physics For Scientists and Engineers, 6th edition, 2008, WH Freeman and Company

H. Other Required Reading

I. Other Resources

J. Major Assignments

- a. Labs
- b. 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

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 16-25 for the course objectives of AP Physics C: Mechanics on the College Board website:

<http://media.collegeboard.com/digitalServices/pdf/ap/ap-physics-c-course-description.pdf>

