



# Deer Valley Unified School District No. 97

BOULDER CREEK HIGH SCHOOL  
40404 N. Gavilan Peak Parkway ❖ 623-445-8600 ❖ 623-445-8680 (Fax) ❖ bchs.dvUSD.org

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## AP Physics 1 Course Syllabus

**Course Title:** AP Physics 1  
**Instructor:** Mr. Barker  
**Room:** 438  
**Teacher Web Page:** <http://bcphysics.weebly.com/>  
**Email:** steven.barker@dvUSD.org

### Note:

Course procedures and policies may change to accommodate iPad and CANVAS technologies.

### Course Description:

Deer Valley Unified School District Course Description: A non-calculus approach to the principles of general physics which includes motion, energy, and properties of matter. Recommended for pre-professional and suggested for certain other majors. This is a college-level introductory physics course, and will provide an excellent opportunity for students to become acquainted with techniques for reading and study that will be necessary in the university environment. As such, reading assignments are absolutely essential to success and comprehension of lecture and laboratory activities. This course utilizes guided inquiry and student-centered learning to foster the development of critical thinking skills. Inquiry based laboratory activities will cover most major topics and will focus decisions regarding procedures and conclusions onto students.

Prerequisite: Algebra 3-4

### Textbook:

Serway, A., Vuille, C., Faughn, J. (2006). College Physics, 8<sup>th</sup> Ed. Belmont, CA: Brooks/Cole. ISBN 0-495-38693-6

### Required Materials:

Each student must have the following materials every day in class: charged iPad, dry erase marker, bell work notebook, TI-84 graphing calculator, pencil or pen. Students may also be expected to purchase a \$0.99 physics simulation app for their iPad.

### Grading:

A = 100 - 90  
B = 89 - 80  
C = 79 - 70  
D = 69 - 60  
F = 59 - 0

Homework, in class assignments = 20 % of grade  
Labs, projects, in class activities = 20 % of grade  
Tests, quizzes = 40 % of grade  
Final Exam = 20%

- The final will be at the end of each semester. The final exam will be a comprehensive test provided by the instructor.

Students who are failing AP Physics 1 at the end of the first semester may be placed in the regular physics class for the second semester.

### Office hours:

Tuesdays after school unless otherwise indicated in class. Mr. Barker is NOT available in the morning before school.

## **General Course Outline:**

- I. Kinematics (4 Weeks; Serway Chapters 1-2)
- II. Newton's Laws of Motion (8 Weeks; Serway Chapters 3-4)
- III. Rotational Motion (3 Weeks; Serway Chapter 7-8)
- IV. Work, Energy, Power (4 Weeks; Serway Chapter 5)
- V. Linear and Angular momentum (4 Weeks; Serway Chapters 6 and 8.7)
- VI. Simple Harmonic Motion (2 Weeks; Serway Chapters 4 and 13)
- VII. Sound and Wave motion (2 Week; Serway Chapter 13)
- VIII. Electrostatics (1 Week; Serway Chapter 15)
- IX. Electric circuits (2 Weeks; Serway Chapters 17-18)

Note: Due to the nature of our high school schedule and the frequency of class meetings (daily), this syllabus does not provide a detailed advance schedule.

## **AP Exam & Practice Testing:**

It is the expectation of this class that **ALL** students will take the AP exam in May **2017**. Funding is available for the exam on a financial need basis. In addition, it is a BCHS policy for all students will take a complete practice exam. This practice exam will be scheduled in advance and participation is **mandatory**. **The practice exam will count as 50% of the 2<sup>nd</sup> semester final.**

## **Adherence to the Boulder Creek Academic Integrity Code:**

All students enrolled in Honors Physics will adhere to the framework and guidelines set forth in the Boulder Creek High School Academic Integrity Code. Cheating and Plagiarism will not be tolerated. The purpose of this code is to promote a positive learning environment for all involved. As humans, we will make mistakes as we grow. It is understood that we can learn from those mistakes and become better individuals in the future. Any student who violates this code will be referred to the Students Rights and Responsibilities handbook and assignment of appropriate consequences. Please refer to the Academic Integrity Code in its entirety for definitions and examples of plagiarism and cheating and strategies on how to avoid these infractions

## **Class Expectations:**

1. Be prepared with your dry erase marker, charged ipad, note taking notebook, bell work notebook, pen and pencil, and a scientific calculator every day.
2. Respect the rights and property of others at all times.
3. Be in your seat and prepared to begin when the bell rings.
4. Do not talk while someone else is talking.
5. Follow safety guidelines and directions carefully.
6. No hats, gum, food or drink in class.
7. No cell phones or smart watches—you should be using your IPAD exclusively. PARENTS are to call the school directly if an emergency exists. Do not use a pager or cell phone.

## Classroom Behavior Expectations and Consequences- PBIS

	<b>Learning Environment</b>
<b>P</b> repared	<ul style="list-style-type: none"><li>• Bring materials</li><li>• Come prepared to learn</li></ul>
<b>R</b> espectful	<ul style="list-style-type: none"><li>• Respect others, their property, equipment, and the facility</li></ul>
<b>I</b> ntegrity	<ul style="list-style-type: none"><li>• Complete your own work</li><li>• All cell phones are off and out of sight</li></ul>
<b>D</b> iscipline	<ul style="list-style-type: none"><li>• Arrive on time &amp; be in your seat</li><li>• Behave appropriately and use courteous language</li><li>• Keep food and drink outside</li></ul>
<b>E</b> veryone United	<ul style="list-style-type: none"><li>• Encourage confidence</li><li>• Cooperate and collaborate</li></ul>

### Consequences:

1. Verbal warning
2. Isolation in the room, and a parent phone call or email
3. Removal from class, parent phone call or email, and detention
4. Referral
5. Cheating: The student will receive a zero on the assignment! If a student talks during a test for any reason to any student, both students will receive a zero. Manipulating technology or sharing answers on class work is also cheating and you will receive a zero. The presence of a cell phone, smart watch, or other electronic device with photo capability during a test is cheating and will also result in a zero.

### Laboratory:

- Horseplay will not be tolerated. Students will leave the lab and will not receive credit.
- Breakage or disfigurement of lab equipment due to vandalism or horseplay will be replaced at the cost to the student.

### Late and Make-Up Assignments:

#### NO UNEXCUSED LATE WORK WILL BE ACCEPTED!

Upon return to class after an absence, a student has one school day for each day missed to make up work assigned during his/her absence regardless of the number of days absent. For example, if a student is absent on Thursday and Friday, he/she will have Monday and Tuesday of the following week to make up work and must turn in the work that was assigned during the days absent on Wednesday. It is the student's responsibility to check with teachers immediately upon return for work missed and possible adjustment of due dates. Coursework and assessments assigned prior to the absence(s) will still be due on the date assigned. If the student is absent on the day an assignment is due, but he or she was present on the day it was assigned, the student is still responsible for turning in the assignment through the CANVAS system on the due date.

If your work is late due to a school approved absence, you must email Mr. Barker your work as a pdf attachment. Mr. Barker will not reopen CANVAS assignments for individual students, so please do not ask. Your name, period, and the name of the assignment must appear in the subject line. In the body of the email you should mention the reason why your assignment is late. Failure to follow these instructions will result in loss of credit for the assignment.

### **Exam Retakes and Quizzes:**

There will be one exam for each unit. A single retake for each unit exam may be provided at the discretion of the instructor and will generally take place the first Wednesday after the original exam. If a student is absent on exam day, the retake exam will become the only opportunity for the absent student to make up his or her exam and the student will be ineligible for a retake. No additional retake opportunities will be provided to students who miss the retake exam unless that student makes plans with the instructor ahead of time.

Occasional in-class quizzes cannot be retaken and may be given without prior notice.

### **Communication:**

Please contact the teacher for any student concerns. It is crucial that teachers, parents, and students maintain open lines of communication. Contact information is provided at the top of the first page.

### **CANVAS and Powerschool Access:**

The CANVAS and Powerschools sites allow parents/guardians and students to access the student's grades, attendance, and other information. If you need your access information, please stop by the front desk during business hours. You will need a photo I.D. The web address is: [ps.dvusd.org/public](http://ps.dvusd.org/public)

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**Please return this portion by August 18th, 2017.**

By signing, we are saying that we have read, understand and agree to abide by the policies and regulations explained in this syllabus. We understand that Boulder Creek High School Science Department has a "Breakage Policy". This policy is designed to hold students accountable for equipment checked out to their care. We have read and agree to follow all the safety rules set forth in the Student Safety Contract. These measures are in place to protect the safety of all students in the lab.

**Student Name (Printed)** \_\_\_\_\_ **Class Hour** \_\_\_\_\_

**Student Signature** \_\_\_\_\_

**Parent/Guardian Signature** \_\_\_\_\_

**Parent/Guardian Email** \_\_\_\_\_

**Date** \_\_\_\_\_