



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

AP Physics 1 Course Syllabus

Course Title: AP Physics 1
Instructor: Mr. Barker
Room: 506
Canvas: <https://dvUSD.instructure.com/>
Additional Resource Page: <http://bcphysics.weebly.com/>
Office Hours: Flex Time and by appointment
Email: steven.barker@dvUSD.org

Course Description:

Deer Valley Unified School District Course Description: A non-calculus approach to the principles of college level 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.

Textbook:

Openstax College Physics
<https://openstax.org/details/college-physics>

Required Materials:

Each student must have the following materials every day in class: charged ipad, dry erase marker, spiral notebook, scientific calculator, pencil or pen.

Grading:

A = 100 - 90	Semester 1		Semester 2	
B = 89 - 80	Projects/Labs	20 %	Projects/Labs	20%
C = 79 - 70	Unit Exams	50 %	Unit Exams	40%
D = 69 - 60	Homework/Quizzes	20%	Homework/Quizzes	20%
F = 59 - 0	Notebooks	10%	Notebooks	10%
			Practice Exam	10%

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

Communication:

Please contact the teacher for any student concerns. It is crucial that teachers, parents, and students maintain open lines of communication.

General Course Outline:

- I. Kinematics (**8 Weeks**)
- II. Newton's Laws of Motion (**8 Weeks**)
- III. Rotational Motion (**6 Weeks**)
- IV. Work, Energy, Power (**6 Weeks**)
- V. Linear and Angular momentum (**3 Weeks**)
- VI. Simple Harmonic Motion (**1 Week**)

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

AP Exam & Practice Testing:

It is the expectation of this class that **ALL** students will take the AP exam in May. 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 10% of the 2nd 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

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

Classroom Behavior Expectations and Consequences- PBIS

	Learning Environment
Prepared	<ul style="list-style-type: none">• Bring materials• Come prepared to learn
Respectful	<ul style="list-style-type: none">• Respect others, their property, equipment, and the facility
Integrity	<ul style="list-style-type: none">• Complete your own work• All cell phones are off and out of sight
Discipline	<ul style="list-style-type: none">• Arrive on time & be in your seat• Behave appropriately and use courteous language• Keep food and drink outside
Everyone United	<ul style="list-style-type: none">• Encourage confidence• Cooperate and collaborate

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 Assignments:

Late assignments will be accepted up until the unit test to which the assignments correspond.

Unit Exam Retakes:

There will be one exam for each unit. A single retake for each unit exam may be provided at the discretion of the instructor. 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 there are extenuating circumstances and the student makes plans with the instructor ahead of time.