

## AP Physics 1 Syllabus

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The Advanced Placement Program® enables willing and academically prepared students to pursue college-level studies — with the opportunity to earn college credit, advanced placement, or both — while still in high school. AP Exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College faculty review every AP teacher's course syllabus.

**\*All students who take AP Physics 1 at HHS are required to pay for and take the AP Physics 1 Course Exam in May.**

### Pre-Requisites:

Through inquiry-based learning, AP Physics 1 students will develop critical thinking and reasoning skills, allowing them to cultivate their understanding of physics and science practices. The AP Physics 1 course is designed to build on the conceptual understanding usually attained in an introductory course in physics. As a first year course, AP Physics 1 is a very intensive first-year college-level physics course. This course is therefore only recommended for highly motivated, able students as additional supplemental work may be required to meet the requirements of the course.

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; introductory static and current electricity, and simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course provides a systematic development of the main principles of physics; emphasizing problem solving and helping students develop a deep understanding of physics concepts.

**\*The AP College Board and HHS recommended pre-requisites include the successful completion of or be taking concurrently algebra II/trigonometry and honors chemistry.**

For more information on the AP Physics 1 Course visit:

<https://apcentral.collegeboard.org/courses/ap-physics-1/course?course=ap-physics-1>

### Text and Supplies:

- *AP\* Edition of College Physics: A Strategic Approach*, 2<sup>nd</sup> Edition; Knight/Jones/Field: Pearson, ©2012.  
**(hard copy provided; online access will also be provided – do not purchase)**
- *5 Steps to a 5 AP Physics 1, 2018\* Edition*; Greg Jacobs **(Purchase on your own – Amazon recommended)**  
**\*2019 Edition Available August 3, 2018**
  - Or another AP Physics 1 supplemental study and review guide of your choice
- Scientific or Graphing Calculator
- Laboratory Composition Notebook, 10" x 7 7/8", **QUAD RULED (4 x 4 or 5x5)**
- Class notebook/binder for homework, notes, and handouts

### Academic Integrity:

- **NEVER represent the work of others as your own; copying someone else's work is never permitted.**
- **Collaboration and team-work are vital and necessary components for success in this course, however, all written work and calculations must be entirely your own work.**

### Attendance:

- **Regular attendance is mandatory for success in this course.** We will be following a rigorous schedule and lack of attendance will severely affect your success.
- **You are responsible for any class notes, assignments, labs, quizzes or tests missed due to absence.**
- **Extra time cannot and will not be allotted for completion of missed work.** You must keep up with the pace of the class so plan accordingly.

- **All quizzes and tests will be made-up during Wednesday morning testing in the ARC within one week of the absence.**
- Please understand that while field trips, college visits, and family vacations are generally excused absences – missing an excessive number of days of school will make it difficult to keep up with the course work and should be limited. Please use good judgment and plan accordingly.
- You will be responsible for completing laboratory experiments on your own if you are absent on block days.

**Grading Procedures:**

- Quarter grades will include guided reading questions, homework problem sets, problem-based quizzes and/or tests, and laboratory reports.
- Problems must be completed according to the **required format** (students must show their work for credit) and **submitted on time**.
- All graded problems must earn a passing score. A consultation period, such as Explorer Period will be assigned until mastery of the problem set is demonstrated.
- Quarter grades will be computed using both formative and summative assignments that are weighted 30% for formative assignments and 70% for summative assignments as required by the HCSD administration.
- All assignments must be submitted on-time; there will be a 10% reduction in the earned grade for each day that an assignment is late.
- It is the student’s responsibility to check SunGard regularly to determine if there are any missing assignments.
- **Missing assignments will not be accepted during the last week of the quarter.**
- **Extra Credit is not an option. Failure is not an option.**
- **Students do have the option to earn ½ credit for corrections on quizzes.**
- **Exam retake option requires that the student complete corrections of the failed exam in my classroom on their own time – class time will not be allotted for corrections and exams may not be removed from the classroom. Retake exams will only be offered Wednesday mornings from 8:00 – 9:30 AM. The retake score will replace the original score.**

**Lab Work:**

- All lab work, including pre-lab exercises, must be recorded according to the **required format** and **submitted on time** in your **lab notebook**.
- Each student is responsible for maintaining a complete and accurate lab notebook.
- Successful, timely completion of all lab work is required to pass the course as per AP Requirements.

**Behavioral Guidelines**

- All school rules apply. Refer to your student handbook for school-wide rules and consequences.
- Detentions and parent contact will be the result of not following the behavioral guidelines.

**BE RESPECTFUL!      BE RESPONSIBLE!      BE COURTEOUS!**

**BE PREPARED!      BE POSITIVE!      BE PRESENT!      BE ON TIME!**

\_\_\_\_\_  
Student’s Name (printed)

\_\_\_\_\_  
Student’s Signature

\_\_\_\_\_  
Parent’s Name (printed)

\_\_\_\_\_  
Parent’s Signature

Date: \_\_\_\_\_