

AP Physics C

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Conference Time by appointment:

After school, 5th and 7th period.

Walk-In tutorials:

Lunch

Course Overview

Classes meet for 45 minutes each day during 1st period. This calculus based physics course is open to all students but is designed as a second year physics course with a strong recommendation that students have either taken or are co-enrolled in Calculus. During the fall semester, this course focuses on mechanics which is common with a first semester of college physics course for scientists or engineers. In the spring, the course transitions to electricity and magnetism which is common to find as a second semester physics course. Success relies on the students desire to learn physics with the end goal to gain knowledge and confidence in physics as well as be successful on the AP Physics C exams. All students taking AP Physics C are expected to take the AP Exam for both Mechanics as well as Electricity and Magnetism in May.

Materials

1. A method to take notes and keep returned tests/quizzes and handouts.
2. Pencils, pens (Black and Red)
3. Graphing calculator (TI-84 preferred)
4. Online Text Book: *Physics for Scientists and Engineers*, 10th edition by Serway/Jewett via WebAssign Login. (This is also where problem sets will be completed out of WebAssign)
5. In Print Textbook: *Physics for Scientists and Engineers*, 4th edition by Tipler. Issued in class.

Class Expectations

1. No cruelty.
2. Give yourself and others permission to make mistakes.

Grading System: 6 week reporting period

Exams/Projects/Formal Lab Reports	40%
Labs (Lab Checks)	20%
Recitations	20%
Independent Work (Web-Assign, Classwork, HW)	20%

Website

We will be using the class website to access class handouts, notes, answers, the calendar, and recorded lectures. The main site does not require a login, but some pages are password protected to protect material with a copyright or privacy. The password will be provided the first day of school

Extra Credit There are no AP Physics C extra credit opportunities. Perform to your best each day.

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Grading policy (Same as HSPVA)

A: 90 – 100%

B: 80 – 89 %

C: 75 – 79%

D: 70 – 74%

F: Less than 70% (This is a failing grade)

Your grades are intended to correspond to your AP score

A = 5, 4

B = 4, 3, 2

C = 3, 2, 1

D = 2, 1

F = 1

Parents/Guardians are important role models and an essential part of every student's education. In addition to progress reports and report cards, students will receive a progress report if at any point their grade falls below a 70. Students are required to bring this progress report back to the teacher with a parent or guardian's signature. If you have any questions concerning assignments and or grades, check the account on Gradespeed and then e-mail any concerns. E-mail is the best form of communication.

Retake Policy: For AP Physics C there are no re-takes, only detailed corrections. A rubric will be provided for students to follow. All students are eligible to turn in exam corrections to regain 50% of deducted points.

Late Policy: (Uniform for HSPVA Science Department) If work is not turned in on the deadline date and time (when class begins or by teacher discretion) a 50% deduction from the original grade will occur. Failure to turn in work by the beginning of the next class meeting will result in a grade of zero even when the student is absent from school. If absent the day of a major exam or project, you are required to contact the teacher by the day you return to school. Makeup work can be done by appointment with the teacher. If you are absent for quizzes, lab exercises, or any class work, it is your responsibility to arrange make up within three calendar days upon your return or you will receive a zero.

Classwork or in class assignments are all turned in at the end of the class or at teacher discretion.

Tests are representative of the actual AP exam with a multiple choice and a free response section each weighted equally. To encourage alignment, the questions are only slightly modified from actual released AP questions with slightly more time allotted per question. Students have 45 minutes to complete a given test unless they have been granted extended time by College Board. The final score on a test is then given based on the determined difficulty of the exam.

Recitations are the AP Physics C equivalent of the group quizzes in their Pre-AP Physics course with a twist. Instead of solving a group of problems in class, each student group is given one complex problem (with multiple parts) to solve for completion and they may only work within their group. Upon returning to class a student from each group is picked at random and then must present the findings to the class. The grade for each group is based on the accuracy of the solution, presentation, feedback and notes. Later in the semester, recitations are modified to be completed in class much like group quizzes from prior years. See rubric online for clarification.

Tutorials will be offered and scheduled as needed hosted in room 329

Teacher availability (out of class):

During Lunchtime	Unless there is a teacher meeting
After School	3:35 – 4:30 (by appointment)

Homework is both in the form of WebAssign, an online HW tool, and word problems from the Tipler textbook.

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Academic Honesty: A student found in violation of academic honesty will be subject to a grade of zero for the initial assignment, a "P" in conduct for that marking period, administrative referral, and/or further disciplinary action. A student may opt to re-take the assignment and have it averaged with their initial grade. As a side effect, not due to any policy, you may find your tests scores to fall as well due to lack of comprehension of the subject matter.

Cell Phone Policy: Unless otherwise specified, cell phones will be placed into "The Phone Hotel" at the beginning of class and can be retrieved the last 5 minutes of class. Any cell phones out in the classroom, whether used or not will be collected and turned into the office to be retrieved at the end of the day. Wonder what prompted this policy? Read this article: [CLICK HERE](#)

Course Outline

Chapters are correlated to the Serway and Jewitt online textbook. Reviews for the AP Exam consist primarily of released AP exams. Check online calendar for any updated test dates.

AP Physics Course Plan 2019-2020

Unit	Topic	Book Chapters	45 minute Class Periods (Including test day)	Unit Test Date*
1	Forces in Equilibrium and Friction	1, 3, 5, 6	12	9/11
2	1D & 2D Kinematics	2, 4	15	10/2
3	Impulse and Work → momentum and Kinetic Energy	7, 9	12	10/18
4	Conservation of Momentum and Energy	8, 9	13	11/6
5	Rotation	10, 11, 12	12	11/22
6	Universal Gravitation and Harmonic Motion	13, 15	9	12/12
Fall Final Exam				12/13
7	Electrostatics: Force and Fields	23, 24	13	1/23
8	Electrostatics: Potential and Capacitors	25, 26	14	2/12
9	Electric Circuits	27, 28	14	3/3
10	Magnetostatics and Ampere's Law	29, 30	13	3/27
11	Electromagnetism and Maxwell's Equations	31, 32, 34	12	4/16
AP Physics C Exams!!!!				5/4
Spring Final Exam				TBD

*The test dates may be modified based on student needs/conflicts.

Once you have reviewed the above, complete the online "signature sheet" and student data form for your first assignment. [CLICK HERE](#)