

## Information about the AP Physics C course at ERHS

- **Prerequisites:**

- Required: Pre-calculus completed or concurrent
- Required: Honors Physics, Physics ST, or AP Physics 1 completed
- Recommended: B or better in Honors Physics, Physics ST, or AP Physics 1

- **Course description:**

- A calculus-based college-level physics course (all the calculus used in this course will be taught in this course)
- This course is especially appropriate for students planning to specialize or major in one of the physical sciences or engineering.
- It has a strong emphasis on problem solving. The problems can be complex, highly challenging, and interesting.
- The course content includes the following mechanics units: Kinematics, forces, energy, momentum, rotation, simple harmonic motion, and gravitation. It may also include some of the following electricity and magnetism units: Electric force and field, electric potential and capacitors, circuits, magnetism, and induction.

- **From current students:**

- This is a demanding course, but if you pay attention and ask questions then it isn't that difficult. Students are given many resources to learn if they are behind in a lesson. I like this class, although I often have to do my homework at work, but that is my choice.
- AP Physics C is a natural progression from Physics S/T or Physics Honors. Most of the material for the first two quarters of the academic year is a review of previously learned content with some calculus-based additions. Do not worry if you have not taken calculus (Although I would highly recommend taking it concurrently if possible.) All the required concepts are taught in class.  
There is homework every night. The only exception is the day before a test [or a quiz]. If you ever need help, you can always watch Dr. Twu's videos on her website.  
Overall, I would absolutely recommend taking AP Physics C. This class is among the best taught I have ever taken at Roosevelt.
- It is a great decision! Homework everyday sounds overwhelming, but the organized calendar where I can expect what I am doing everyday is more helpful to me than randomly getting homework and having to budget time for it. I appreciate the consistent and organized nature of the class, and you might too, so don't let the workload scare you too much since you can always plan.
- I believe AP Physics C with the instructor Dr. Twu has provided Eleanor Roosevelt HS with a unique and driven course that will help any student within a hard science to pursue their education. This course readies you to take the AP Exam, from taking multiple FRQ's and MCQ's as homework and class assignments. It is a course tailored for your success,

and I believe one of the more fun hard science related courses in the school. Please know that if you are planning to take this course, it is to say the least rigorous. It needs time and dedication, and intensive listening skills. Regardless, pushing through will make it very worth it in the end.

- o AP Physics is a strenuous class, but if you don't procrastinate or fall behind it can definitely be manageable. There is homework everyday but there are hints, so it's not too bad. Most of the struggles you'll experience in the class come with the unit tests, which are undoubtedly difficult. You will fail. But don't be discouraged!
- o I definitely recommend AP physics if you enjoyed physics at all. The course is hard but it's very rewarding to solve problems and learn new physics concepts. The daily homework seems like a lot but it's not too hard to get all of it done within an hour if you work hard, and it prepares you for college workloads. Dr. Twu is also a great teacher who does an amazing job explaining the most difficult problems!
- o "It's a very difficult and very humbling class, especially if you're not familiar with calculus. I took the class because it was challenging and I was mildly interested in physics but sometimes I feel like I bit off more than I can chew. All the concepts are taught in class but since it is an AP and there is a lot of content, the 45 minutes is not enough time to explain everything in excruciating detail and fully digest the info. That's why there's homework everyday for practice, but also a plethora of resources to use. So if you want to succeed, you have to spend a lot of time to put in the work on your own to do so; there's no spoon feeding. Although the class is challenging, it will give you new experiences (i.e. grades you have never seen before) and strengthen you as a student to handle complex problems and increase your ability to persevere and bounce back up from failure.

If you choose to take AP Physics C, bring a friend who you feel comfortable working with during class. It does not feel good when, NOT if, WHEN you don't know what you're doing on a problem and you're just sitting there confused. During the summer, review concepts especially kinematics to start off your year right. Set a schedule, practice, work with friends, go to each study session before assessments, remember you are not the only one that may be suffering, and have fun! Choose wisely. Wishing you all the best! "