

*Hi Everybody. Please find below your unedited feedback in black. My response to some of your statements is in purple italics. My experience is that this time is the low point for many students in the adjustment process. It gets better after this. However, already it seems many students are adjusting well to physics, to the novel way we learn it; and seem to be enjoying it. If you're having difficulty, please come to office hours or contact me some other way to innovate a solution.*

*Some students ask for more explanations, more explanations, review of the videos. These are structures of traditional lecture physics. I think that they are helpful. However, if we do more of something, then we have to less of something else.*

*Thanks for your comments, below*

*Pete*

I find that being able to rewatch lectures is very valuable. I wish more classes were like this.

So far, I've been enjoying this class a lot. The learning atmosphere and style appealed to me in the 1<sup>st</sup> initial email sent out prior to the 1<sup>st</sup> day of class and since then has not let me down.

This is an engaging physics class, you have a lot of energy keeping it interesting. The textbook is really nice. Maybe could offer more practice problems? As optional.

So far I have enjoyed physics more than I thought I would. I'm still trying to grasp all of the concepts, but if I had any other professor I know I would be lost. As a second year you are one of the best teachers on campus and these freshmen are very lucky to have you in physics.

It's a lot of work, so it takes a lot of time outside of class, but while we're in class, I usually enjoy it. Once I got used to the teaching style, I started to like it a lot. I'm making friends and having fun but it's difficult to also keep my room clean, do laundry, and worry about food.

- I enjoy your enthusiasm when teaching the class
- Doing more example problems in class would help.
- Showing concepts with real life examples (like the roller coaster tracks) are very helpful.

I feel as though I am having a more difficult experience than most students here. I work ~ 28 hours a week (and support myself) and the videos require time and I sometimes can't finish them all.

I am understanding the concepts we have gone over in physics much better now than I ever did in high school. The videos can be very helpful in stripping away all the extra stuff and just talking about what we need to know.

- The videos are kind of helpful.
- You're energetic and funny
- The website is kind of weird because it keeps changing.
- I don't like all the programs we have to do on our laptops outside of class because I'm not tech savvy.

I feel like I am understanding the physics concepts better than I did in high school when I just used equations and didn't think about what was happening.

My time outside of class is limited, so I end up watching the videos after midnight. I feel I don't learn as well as I could from them because of that. Despite this, I have still enjoyed this class and your odd way of teaching.

I like the video notes because I can pause them to write things down or rewind them if I miss something.

I feel like there's a lot of work to do every night, so sometimes I rush through the video notes and don't get as much of them as I should.

*Does "video notes" mean textbook or the questions I ask during a video, or the captions?*

Overall, my experience in the class has been positive. I've never done physics before, so I was very scared coming into it. Although some days I'm more confused on concepts than others, I think if I just really make sure I understand all material, I will be good. The only thing that I think would make things easier is if we went over what we watched in the videos in class.

This class is definitely an experience. I really like the idea that we try to understand physics instead of just learning equations, but that process makes things so much more difficult. Understanding is important, and I'm glad we're doing that, but physics just got a lot harder from my high school physics class where I learned the same thing we're learning now in a different way.

I am liking college so far and this class is going well. I took physics in high school which is helping a lot but I am adjusting to the new methods (lenses) of the class still.

In sophomore year, my math class was flipped too. We watched videos and discussed in class. I really like how you encourage discussion and make connections. I think working together and cohesively not only improves communication and time management skills but also brings different views and aspects together. I really like the energy of this class and even though I find it really challenging, it's helping me to explore new study and learning habits.

I like the way the class is structured because it focuses more on the need for us to understand the topic rather than just getting an answer for a test.

The first few weeks of school have been busy and at some points chaotic. There is definitely much more studying and work involved in college compared to high school. Physics has been a huge change in learning styles but so is every other class.

My experience so far has been really, really good. I really like your class. I love learning & understanding on a deep level, but it sometimes takes me time to fully process. Building a strong base with the four lenses helps me understand what is actually going on with many equations.

I really enjoy the flipped class method. I feel less stressed that I don't have to worry about points & I can focus on learning. This allows me to be less stressed overall since this is one less class I don't have to worry about points, making my overall happiness better.

I was very skeptical of the flipped classroom idea. But I think the combination of the videos, which are very entertaining, and the examples we do in class is helping me really understand the material. However, I also think that some of the videos are not very beneficial. Some of them feel like busy work rather than real homework. I find the videos relatively engaging because of your energy.

It is nice to converse with other students, but sometimes it gets very confusing through learning with the videos and textbook, then having to apply it to problems.

I have enjoyed the class so far and really like your approach to teaching concepts over formulas. However, having already taken physics, I feel there is a little too much emphasis on making a drawing or explaining a lens if it is not really needed to show thinking or explaining the problem.

The class is very informative. I don't like the videos too much.

I enjoy the class structure. However, I feel anxious about the higher level concepts being taught and absorbed in this lecture-at-home/work-in-class structure.

This class has honestly been really rough. I'm doing all the work but nothings really clicked or completely made sense yet.

It's been a little bit difficult to adjust to the structure and style of the class, but it's slowly getting better.

Sometimes, I need more time to work on/think about a problem given in class before we start talking in a group in order for me to be able to fully participate.

I was skeptical of the classroom model at first but I have quickly grasped physics and this has become my favorite class.

This class is very cool. Thank you. Enjoyable, people are nice, class is relatively stress-free.

Coming from an independent study high school, there is a lot of people here which is something I am still getting used to. The homework sometimes is overwhelming, but I like the concepts of the reverse classroom.

My experience in this class has been, to say the least, interesting. I've taken 3 years worth in high school physics but this is the first class that we've covered all subjects at the beginning. I like this class structure and am looking forward to adding complexity.

This class has been great so far! I took high school physics, but it was more about equation hunting as opposed to conceptualization here in college. I already understand physics better due to this approach.

This class is fine, just lots of busy work and the videos need to be redone a lot are blurry and the audio is patch at best.

Coming from two years of physics, I really like the pace and emphasis on learning in this class, but I'm not sure if the people with no experience will understand the concepts at such a condensed and fast pace.

Sometimes the content is very spread out, confusing, and hard to follow, but I recognize that this method may sometimes be useful.

I really enjoy this class so far. I've never taken physics before and I really enjoy your teaching style. You are very excited and knowledgeable, and I greatly enjoy the way you care about students outside of class (how anxiety affects learning, etc.) I'm excited for the rest of the quarter.

The class is very different. It has definitely challenged me to think more critically about physics, but I would like some additional instruction. I like that you force us to talk in groups but sometimes things are still unclear, and you don't like to clarify.

*My intention is that you find your way to clarity and help each other. My effort is to identify where you need more guidance. It's a constant balance on my part. Ultimately if your group doesn't get it, then I want to provide that guidance. You can help me by being more explicit... when you want an answer or a new direction.*

My overall experience has been positive so far. I need to take better notes during the videos but that's just a personal thing I can improve.

I enjoy this class. It's much more work than I expected, and it kind of sucks that I can't devote more time to this class (I picked my class / extracurriculars assuming that this class would be minimal work)

I enjoy the videos but the class periods feel unproductive. There never seems like a good time to ask questions.

- More of a lecture environment would be REALLY helpful.
- I'd prefer office hours to not be how they are currently b/c I think we're given enough time in class to talk to our peers about our questions and I go to office hours to talk to the professor as a last resort. I can't trust the info from my peers b/c they could be convincing me of the wrong concepts that would normally be cleared up in office hours.
- I feel like we waste time talking about what we were talking about and wish we did more examples.

*You're welcome to help me innovate office hours. If you want explicit guidance, then please ask for it. I have students sit at a table together in order to model the learning process that will carry you into the rest of your lives. However, I can sit with you as soon as you want to talk to me. My preference is that you initiate problems by yourselves. However, I'm willing to try something different.*

I am liking this class so far. I like to learn about physics by learning the underlying concepts. Much more satisfying than plugging in formulas. It seems like you really care about your students getting an education, and I'm really grateful for that, thank you.

I genuinely value the videos but I'm just so tired at the end of the every day to absorb the information. Also thank you for caring about your students 😊

I have really enjoyed talking this class. The videos take a little getting used to, but just discussing and practicing in class I feel is better than just traditional lecturing. I've been able to pay attention better in class compared to a traditional science class, and I feel like I'm retaining the concepts better rather than only the math and formulas.

It can be difficult to interact and cooperate/work together if you are not sitting near your friends/group. That is the only flaw with this model. Well that and potentially terrible videos, but there are not any so far!

I like the class so far. The teaching style works well for me and I enjoy the use of lenses. I want to make more friends, however.

- I'm so enthusiastic about being here!
- I absolutely love the class style. I feel like I am learning a lot more than I did in my AP physics with the same material.
- It's not fun walking from my dorm to class every day because it's a 15-minute walk (my dorm is the last one at the edge of campus).
- I don't get to dance enough but I'm excited to start teaching dance in November at a local studio.
- I miss drinking coffee and reading.

\*\* I've never been more engaged in a class before – your class so far has made my love of physics more than math even.

*This is something new for me... but makes sense. It's a long walk alone from the other side of campus. But this must be something we can do about. How about meeting at your dorm and walking together. Are there others from the class in your dorm? What could I do to help? Maybe we make an announcement in class and people can organize with others from their dorms!*

I'm not sure if this learning style is working for me. I am willing to stick it through and see if it helps me in the end.