

*Hi Everybody. Please find below your unedited feedback in black. My response to some of your statements is in purple italics.*

*There is a wide range of responses. Many students express interest for things to be different. In particular, many people would like to have more examples with answers. I think that there are lots of examples, but I can increase the number of examples if people want more. I suggest you send me a request of what kind of problems you'd like. If you don't have a textbook, you can borrow one of mine, or see this free online version: <https://openstax.org/details/college-physics>. However before you do this, please make sure you've looked over all the homework and exam solutions we have posted so far.*

*Some people say they'll miss my class. If you want more of this kind of inquiry, please consider my classes: Energy, Society, and the Environment (PSc 320), or one of my appropriate technology classes (PSc 391, PSc 392).*

*Amusingly, many people worded their statements in the past: "This class was a good class..." Hey, we still have two weeks left! Actually, 16 more days to learn before the final exam. Keep it up, OK?*

*Thanks for your comments, below  
Pete*

I really enjoy this class. My girlfriend was visiting yesterday (who hates physics & math) and we were watching the figure skater video & even she learned something. Your class helps me apply physics to my everyday life, which is fascinating. The 4 lens system is the key to me understanding this. While it is a lot of outside work and too early in the morning, I do enjoy this class, even though it is occasionally confusing. I can tell you love physics, and it makes me want to love physics too, which is nice.

I love this class, arguably my favorite college course so far. The style fits me well, but the personality and energy is what keeps me going and excited to push further and learn more.

I am struggling somewhat with the class. I like the teaching style of watching videos and discussing during class, but I have trouble with the material and find I have to do a lot of practice problems/go to office hours/study a lot to understand what we're learning.

It has been rough. Learning on my own by watching the videos is difficult and often I'm more confused when I leave class than when I got here and I never feel like I know what's going on.

This class is so far the only class I'm actually passionate about & it's going really great 😊. I'm excited to be here. I wouldn't compare it to dance class, which I take off campus, though because I'm just as passionate about that. I dance just about every day for 3 hrs and that's pretty great too. I feel like I'm starting to find my place here.

I feel worried for the final.

Overall going well, wish that the second project was brought up earlier so that we had more time to think of a topic.

So far, my experience has been pretty decent. I enjoy the demonstrations in class and online videos. However, if I had to give feedback, I personally think the textbook should be more informative and give strategy and solutions to solving the problems. Personally, when I want to review, seeing a problem solved fully helps because I get a better understanding as to why a solution is obtained. With the final coming up, a review sheet would be helpful with definitions and such.

*Rather than a review sheet with solutions, I have a review video, which you've seen once, and it will be assigned again. If you care to let me know, I'd be curious what more you think would be helpful.*

Overall, I liked learning outside of class and then reinforcing concepts with examples during class.

Overall, the class was challenging, which was expected. A lot of the time I was confused and I had to spend a lot of time outside of class in order to understand, which caused a lot of stress. I usually like learning by videos but in this case, I seemed to get much more confused. Being in class though is fun and we get a lot of encouragement, which is really nice.

*OK, I could be wrong here, but it might be that the videos set up the confusion for the real learning to take place in class? Likely the questions for understanding are initiated during the videos and make you more ready to learn during class?... just a thought. If you like, let me know what you think.*

I am enjoying this class for the most part. I've gotten used to watching the videos outside of the classroom. Although, I really enjoy watching the Veritasium videos for homework. A lot of them are really cool to watch and really engaging.

This class was very challenging, almost too much. I've taken physics before so everything on the midterms relatively made sense. However, even with my previous knowledge, everything said in class was unnecessarily confusing. I found that usually out of the 3-4 videos we watched, usually only 1 video (or sometimes even none) were helpful. Overall, However, Schwartz made class fun and interesting, just a bit confusing.

This class was definitely challenge, at first I thought the video method would be a new way to learn but to be honest I've been getting more confused. In the beginning since we were learning more basic concepts it was a bit easier to understand, However, as class progressed I felt more lost. I do like however, that encourages me to reach out and ask for help, but I also just want to understand it myself.

I really like this class! Unfortunately, I have been lazy this past week & have not done the problem sets, I have to keep myself motivated & it's hard when I realized the PS weren't put in

for credit. I like how you focus on understanding. I am curious to see how this learning method carries over in next quarter physics.

*You bring up some good points. I've asked students in subsequent physics and engineering classes how our method prepared them. They always respond that they are well prepared... however, they're telling that to me, so I'm likely "biasing" their answers. This may be a good thing to follow up... with a survey, and/or looking into students grades in ME 211 or PHYS 132.*

Overall, I've really enjoyed this class. I enjoy the "flipped" class because I'm able to rewatch lectures & during class we go over problems that otherwise would be confusing. The fact that we're graded on understanding rather than getting the right numbers makes the class way more enjoyable. Takes some of the weight off my shoulders, which allows me to focus on learning.

I would probably be very confused if I hadn't taken physics before. This learning style isn't for me and I've been lazy with videos and problem sets. I would find it better if we did problems in class with numbers then you put the answers in the next slide and an explanation. I would also rather build up topics with kinematics first then forces then rotational stuff. I also don't like how some videos have errors but you haven't fixed them. **Positive attitude though! 😊**

*It sounds as though you would prefer a conventional physics class. I wonder if there's some way I might have identified to you before the class that this is a class that you wouldn't like. I sent an Email before the class began. Is there something I could have put in this Email that would have indicated to you that it would be better for you to switch classes? Thanks for your feedback.*

I have struggled somewhat with some of the last topics we have covered, because although you explained the concepts of the problems, I think doing some examples of the problems with numbers would make it a little easier to understand.

It's exactly as you said it would be. I hated the first two weeks, but then the concepts began to click. Now this class has become one of my favorites this quarter.

Although I love the idea/concept of a flipped classroom, I don't think it works well for me for this particular class. I don't have the motivation/desire to put the work in this class that is necessary to do well/get the full value out of it.

*Your answer implies to me that motivation is more important with a flipped classroom. Do students need to be more motivated to learn in my class environment than in a conventional class environment?*

I honestly really like this class. I wish my other classes were more like this.

This class stresses me out the most and I am the most worried about the final for this class. This class takes up too much time for how much I'm understanding the material.

It is hard for me to pay attention in class and I have gotten lazy while watching videos. I don't think this is the best way for me to learn personally.

I would like more practice problems with numbers so I can check my answers and know when I am doing it wrong.

At first, the class seemed doable, but within the past few weeks I have been very lost. It's not the teaching style, because some people really like the online lessons. I personally just don't retain information very well that way. Overall, I do like the class, curriculum, and atmosphere you bring every morning.

I like the layout of the class and Pete's clothes. However, I do wish we spent a little class time reviewing the videos from the night before, as sometimes we discuss the same concepts but never get back to these problems in particular. **Overall, a great time in this class and a very easy-to-understand grasp of physics!!!**

When we got our midterms back you said the one word that came to mind was "train wreck". I think we all agreed. You said there were some basic concepts missing. I think it would have been helpful to go over what people were missing the day after the midterm. I am still confused on the material.

*Good point. I think part of what made the exam a "train wreck" was the novelty of some of the questions... so I did grade it with this consideration in mind. However, this is a problem if there are still questions/confusion/uncertainty. I thought that I did exactly what you are suggesting by posting the exam with comments. Was this not enough to get you started? I'm curious if you checked the MT#2 solutions or asked your colleagues? If there's questions remaining, what should we do about it now?*

I'm doing well in your class right now. I had a really nice thanksgiving break and now I'm ready to finish these last couple of weeks in class on a strong note. Thank you for what you do, your class is one of few I look forward to.

I've recently been frustrated by the amount of problems we've left unsolved in class and I don't feel like office hours are much help.

This class requires a lot of outside time b/c of videos and long problem sets.

I like the class but I would like to do more math.

*I'm all for it! Do more math. How would that look if we were to do more math? Could you do more math? Would have "more math" extra problems on the problem sets and/or textbook?*

I am going to miss physics with Pete. I absolutely love the way the class is taught, most notably the lecture videos and the emphasis placed on the knowledge of concepts as opposed to number crunching. I just hope my next physics class places the same emphasis on concept development. Additionally, Pete's personality makes it very easy to pay attention.

I'm definitely struggling in this class but I enjoy it at the same time. Physics amazes me and I understand many of the concepts, yet when I'm by myself I draw a blank on how to apply them much of the time.

I'm enjoying the class but I feel like there's too much group work / group projects.

Physics has been fast paced. A lot of topics are covered in a short amount of time, but as long as I stay focused and do the problem sets, it is reasonable.

My experience with the class is pretty good. I hope to improve a lot before the final however.

I never feel sure of my answers on your exams. I really appreciate the big exams for the practice, but I would like better explanation of obviously difficult problems.

I feel I understand physics pretty well because of this course. I am getting used to the reverse classroom style.

My experience has been rough (which I think you know). Not coming to office hours has been my fault but I'm trying to make things work. I don't think a flipped classroom is for me. I feel I understand but never do/explain 100% right.

I have learned a lot in this class and I do appreciate the lens method. Physics has never been my favorite but I understand it more now than I ever have.

I find that this style of learning where the lectures are in videos to be harder for me to learn. I believe that I spent many years learning how to learn. Now that the format has changed in this class I find myself struggling in a class that I didn't struggle with in high school.