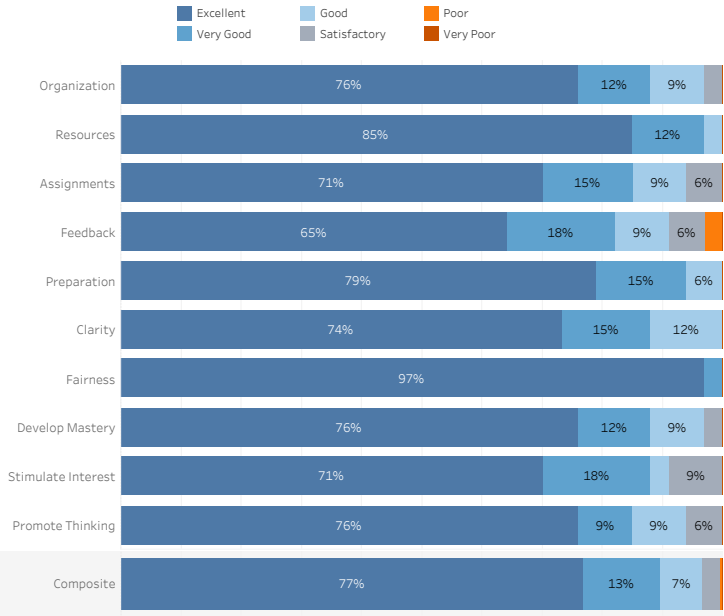
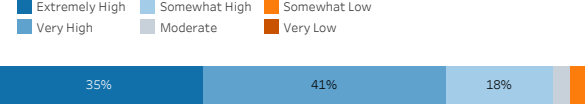


Course	Sub Numb Sec	Division	Department	Course Level	Location	Enrollment	Respondents	Response Rate %	Modal Credit Hours	Team Taught?
Physics A Lab	PHYS 11411-01	Science	Physics	1	M	40	34	85	.5 to 1	Single instructor

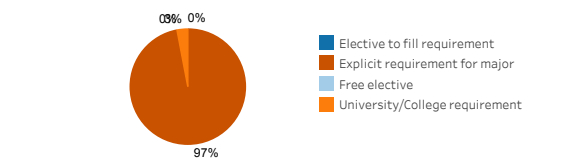
Percent Response Distribution



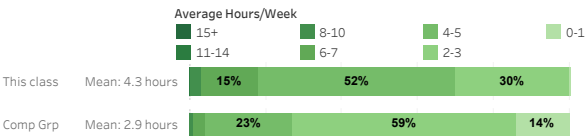
Intellectual Challenge



Students Taking Class as



Time Outside Class

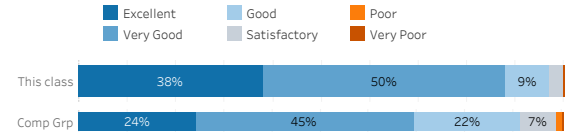


Comp Grp: Classes at the same level in the same division with the same number of credit hours.

Composite Summary

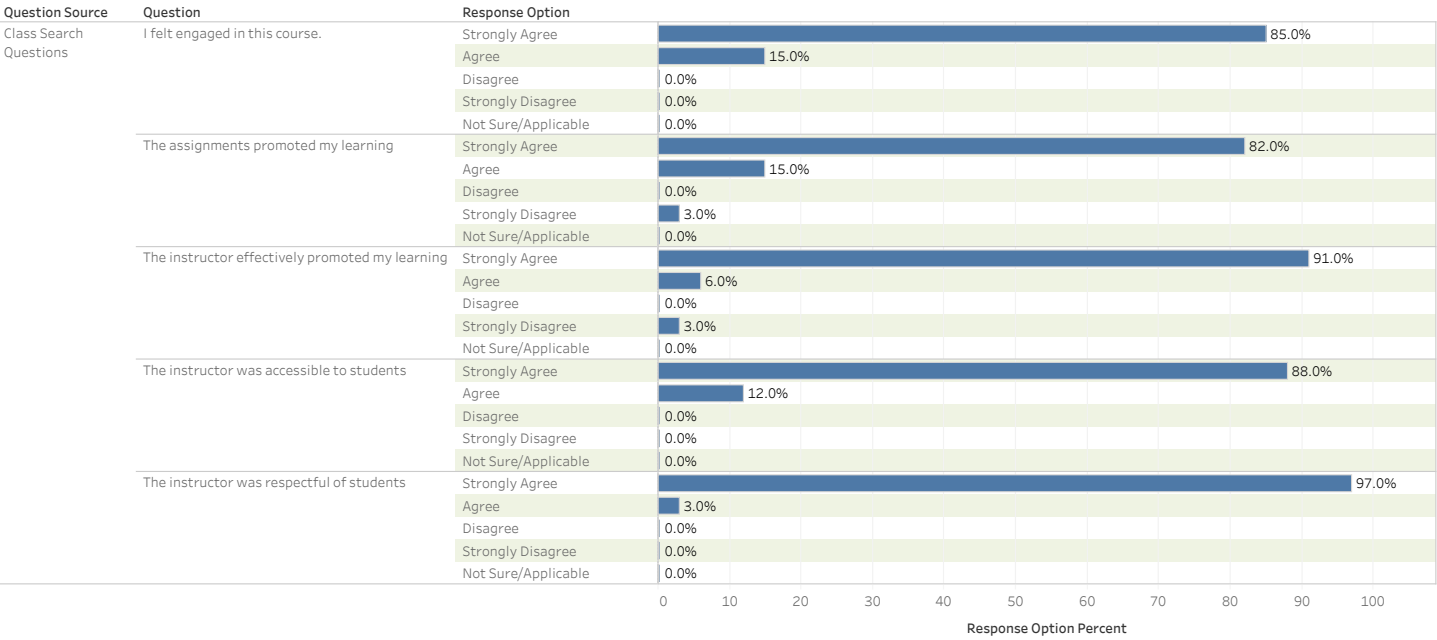
5	89.7	0.3	339
Median	% V Good or Excellent	% V Poor or Poor	Item Responses

Quality of Student Effort (Summer 2018 and later)



Comp Grp: Classes at the same level in the same division with the same number of credit hours.

Additional Questions - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius



Student Comments - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius

Question Text	Student Ref #	Comment	Composite	Intellectual Challenge	Quality of Student Effort	Time outside Class
Please comment on how well the activities, readings, lectures, and assignments helped you learn in this course.	1	Physics lab has very much increased my understanding of the experimental process.	4.9	Somewhat High	Very High	6-7 hours
	2	The projects and experiments are very intellectually challenging. I learned a lot of skills.	5	Extremely High	Extremely High	4-5 hours
	3	The lab topics have matched well with the lecture material, and the lab reports have been useful in exposing me to lab-type work within physics. My main suggestion for the material of physics lab is to give students some options to choose from for the final lab project. There were some really cool presentations, and it would have been fun to do something as complex as some of the ones done, but it is impossible to choose a topic you have never heard of. It may even help with the budget if we are give..	4.7	Very High	Very High	2-3 hours
	4	Professor Placco was very good in providing several lessons on error propagation, which is the most difficult aspect about writing lab reports. The lectures on error propagation that were dispersed throughout the course really helped us to write our lab reports.	5	Very High	Extremely High	2-3 hours
	5	Labs helped me to understand how the concepts we learned in lecture applied to real life.	5	Very High	Extremely High	4-5 hours
	6	The labs we created were very interesting!	5	Extremely High	Extremely High	4-5 hours
	7	They were very necessary to the course.	5	Very High	Very High	No response
	8	I can now write lab reports that are much better than before I entered this class. The resources for writing and developing labs were more than I would've expected. The information about error analysis could be clearer or explained in a different way.	4.9	Extremely High	Extremely High	6-7 hours
	9	The lab reports were took a lot of effort and thinking to produce. They are effe active in teaching the lab process, but doing one a week might have been too much. I spent more time working for this one credit hour class than I did for my four credit gen chem class.	4.1	Extremely High	Extremely High	6-7 hours
	10	Writing the lab reports was very good practice.	5	Extremely High	Extremely High	4-5 hours
	11	The activities in this course helped me to improve skills that will be used later on in my major courses.	5	Extremely High	Extremely High	4-5 hours
	12	The labs helped me improve my skills in observation and analysis of physical phenomena in a more professional manner.	5	Somewhat High	Very High	2-3 hours
	13	There were few lectures and no readings. Lab sessions and assignments helped moderately.	4.9	Extremely High	Extremely High	6-7 hours
	14	labs were a lot of work but helped in the long run	5	Very High	Very High	4-5 hours
	15	The lab reports required at least a basic understanding of the concepts from the corresponding lecture course.	3	Somewhat Low	Somewhat High	2-3 hours
	16	Introduced me to what I should expect during me next seven semesters of physics lab.	5	Extremely High	Extremely High	4-5 hours

Student Comments - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius

Question Text	Student Ref #	Comment	Composite	Intellectual Challenge	Quality of Student Effort	Time outside Class
Please comment on how well the activities, readings, lectures, and assignments helped you learn in this course.	17	I feel that the few lectures we had were sub-par because a TA was attempting to teach rather than Prof. Placco himself. I would have also appreciated greater number of readings and assignments. While we were taught the basic equation underlying error analysis, such as error propagation, I found that we did not get enough practice applying what we learned before we performed error analyses on our own experiments. We also did not learn much of the statistical methods that could likely be needed when a..	3.1	Somewhat High	Somewhat High	2-3 hours
	19	The lab reports helped me learn how to present my ideas and findings very well. The template provided was extremely helpful.	4	Moderate	Very High	2-3 hours
	20	The lab reports helped me to understand more about the concepts we were learning in lecture. Most importantly, however, they helped me to understand how to write a polished lab report, something I had never done before.	4.8	Very High	Very High	4-5 hours
	21	The lectures, in particular, helped me learn a lot, and the error propagation section was perhaps the most interesting. The derivation by one of the TAs was fantastic as well and helped me to understand what was truly going on.	4.2	Very High	Very High	4-5 hours
	24	They're helped me see how physics is used in the real world and how it can be applied to many more concepts that we want to find and how to find them.	4.2	Very High	Very High	4-5 hours
	25	The lab reports were pretty extensive, but the labs themselves were very fun essential to our learning of the content.	4.8	Extremely High	Extremely High	4-5 hours
	26	The labs have helped me develop data analysis skills and practice scientific writing.	4.7	Extremely High	Very High	4-5 hours
	28	Trial by a very hot fire is a very effective way to learn how to run an experimental lab I suppose	3.6	Extremely High	Extremely High	4-5 hours
	30	I oftentimes felt like there was little guidance in the lab. We had to design our own procedures, and while this was fun at times, I did wish that I had a bit more help in discerning what to do in lab. However, writing the reports themselves was very instructive in what the components of laboratory report must contain and helped me improve my scientific writing abilities.	2.9	Somewhat High	Very High	2-3 hours
	31	The lab assignments were fun and challenging. I learned a lot by doing them--most importantly how to write a report! The lectures were short and to the point and usually informative, which was perfect since it gave us lots of time for our experiments.	5	Very High	Very High	6-7 hours
	32	All have been extremely helpful	5	Very High	Moderate	4-5 hours
	33	The experiment were really fun to do and it actually helped me improve my knowledge of physics.	5	Extremely High	Extremely High	4-5 hours
	34	I learned a lot by doing the labs and what I didn't know I could find out from the proff or the TAs	5	Very High	Very High	2-3 hours
Please identify areas where this instructor could improve his/her teaching.	1	Error propagation is still confusing	4.9	Somewhat High	Very High	6-7 hours
	2	Already great. I feel the error is hard to understand through the 20-minute lecture, maybe he can introduce this thing more slowly. (we are only freshmen!)	5	Extremely High	Extremely High	4-5 hours
	3	The biggest element of teaching that could be improved is the coverage on error propagation. It is required for all of our lab reports, but even after having done it all semester I still often hear the quote "Nobody understands error propagation...." I'm not sure if it can really be taught in a pre-lab presentation efficiently, or if it should be a lesson for lecture, but it definitely needs stronger coverage.	4.7	Very High	Very High	2-3 hours

Student Comments - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius

Question Text	Student Ref #	Comment	Composite	Intellectual Challenge	Quality of Student Effort	Time outside Class
Please identify areas where this instructor could improve his/her teaching.	5	When Professor Placco explains a topic, like error propagation, he tends to oversimplify his explanation which leads to some gaps in understanding.	5	Very High	Extremely High	4-5 hours
	6	The TA mini-lessons, while interesting, were not as clear as his.	5	Extremely High	Extremely High	4-5 hours
	7	It might be helpful to have a little bit more guidance on some labs.	5	Very High	Very High	No response
	8	Another class lesson taught by the instructor on error propagation might've improved my understanding of the subject.	4.9	Extremely High	Extremely High	6-7 hours
	9	none	4.1	Extremely High	Extremely High	6-7 hours
	10	I wish that the presentation on mistakes that people made in lab reports was given earlier in the semester.	5	Extremely High	Extremely High	4-5 hours
	11	He did not have any areas where he needs to improve	5	Extremely High	Extremely High	4-5 hours
	12	Some of the instruction wasn't the most clearly defined/ seemed a bit ambiguous (error propagation).	5	Somewhat High	Very High	2-3 hours
	13	Could make the labs a little more interesting and less strenuous.	4.9	Extremely High	Extremely High	6-7 hours
	14	none	5	Very High	Very High	4-5 hours
	15	The instructor could discuss with each group their experimental design during lab more often.	3	Somewhat Low	Somewhat High	2-3 hours
	16	`	5	Extremely High	Extremely High	4-5 hours
	17	I would have preferred to be instructed directly by Prof. Placco rather than by the TAs. This was especially important when we were learning about different kinds of error analysis. I found the TA's teaching of that material to be unsatisfactory.	3.1	Somewhat High	Somewhat High	2-3 hours
	18	The TAs graded the lab reports very differently so it was hard to know what should be included in each one.	4.4	Very High	Very High	4-5 hours
	19	Sometimes homework is graded a bit harshly, as in getting marked off for things we were not aware of initially.	4	Moderate	Very High	2-3 hours
	20	Honestly I can't think of any. Professor Placco was wonderful this semester.	4.8	Very High	Very High	4-5 hours

Student Comments - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius

Question Text	Student Ref #	Comment	Composite	Intellectual Challenge	Quality of Student Effort	Time outside Class	
Please identify areas where this instructor could improve his/her teaching.	24	Well, I really wish he would have set a class or a time outside of class to teach us (from scratch) about regression and derivative based error and how to calculate it because most of the class had no idea how to find that and struggled with mastering it.	4.2	Very High	Very High	4-5 hours	
	25	Professor Placco could be a little more clear on communication for deadlines, how his extra credit assignments work, and certain aspects he wants in our lab reports.	4.8	Extremely High	Extremely High	4-5 hours	
	26	I felt that not all of the TAs graded the same way. Some of the TAs deducted many points for small mistakes, while others would only deduct a point or two for a conceptual mistake.	4.7	Extremely High	Very High	4-5 hours	
	28	Improving the organization on the error analysis teachings I suggest giving a brief tour of the lab so people know where things are and how to use them.	3.6	Extremely High	Extremely High	4-5 hours	
	30	While there are many resources available on the physics lab website, I do wish there was a bit more guidance in designing the labs. I also felt that the days where instruction occurred, it was a bit random and I had a difficult time understanding the flow of instruction from week to week. I also wish that we could have had several discussions about error propagation, as I do not think I fully understood after our one lesson about error propagation. While I do understand that I could have solved this problem m..	2.9	Somewhat High	Very High	2-3 hours	
	31	It may be useful for next year to spend a little more time going over error propagation; while I understand how to calculate it, it took me a long time and some independent research to understand why the formula is what it is, in which cases it can apply, and how to distinguish and properly include sources of tool error and process error.	5	Very High	Very High	6-7 hours	
	32	Sometimes he would be too lenient	5	Very High	Moderate	4-5 hours	
	33	It would be great if this instructor could check up on groups to make sure their experiment makes sense and that their physics is all correct so that they do not lose point of their lab reports.	5	Extremely High	Extremely High	4-5 hours	
	34	Perhaps, more uniform grading. The TAs all grade the lab reports very differently which make it difficult to know exactly what to do.	5	Very High	Very High	2-3 hours	
Please identify what you perceive to be the greatest strengths of this instructor's teaching.	1	Very clear and accessible	4.9	Somewhat High	Very High	6-7 hours	
	2	He is very knowledgeable and fun. I learned a lot.	5	Extremely High	Extremely High	4-5 hours	
	3	He is very friendly, enthusiastic, and cares deeply about the students and their experience in class. He is also very helpful in giving advice for lab setups and analysis.	4.7	Very High	Very High	2-3 hours	
	4	Professor Placco is extremely good at making sure everyone in the class is caught up and has project ideas each week. He makes sure that everyone understands the expectations and has direction in our lab projects.	5	Very High	Extremely High	2-3 hours	
	5	Professor Placco is always willing to help students develop their labs and lab reports. He truly wants to see his students succeed and enjoy themselves every day in lab.	5	Very High	Extremely High	4-5 hours	
	6	He was always available to aid students.	5	Extremely High	Extremely High	4-5 hours	
	7	He was very encouraging and helpful to all students and would go out of his way to help on projects.	5	Very High	Very High	No response	

Student Comments - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius

Question Text	Student Ref #	Comment	Composite	Intellectual Challenge	Quality of Student Effort	Time outside Class
Please identify what you perceive to be the greatest strengths of this instructor's teaching.	8	Professor Placco is one of the more engaging lab instructors that I have had. He allows us to take control of our learning and due dates and is very encouraging to us changing labs to better fit our interests or ability level. He is always available outside of the lab to discuss physics and lab reports.	4.9	Extremely High	Extremely High	6-7 hours
	9	Funny, friendly person. Easy to approach and helpful when asked a question.	4.1	Extremely High	Extremely High	6-7 hours
	10	The instructor was supportive and respectful of all students, and made me feel welcome and less uncomfortable in the lab, which is normally not one of my strong points.	5	Extremely High	Extremely High	4-5 hours
	11	The professor was very good at eliciting class participation and helping the class to learn how to formulate their own experiment sand questions.	5	Extremely High	Extremely High	4-5 hours
	12	Very friendly and helpful in completing the coursework, good at guiding the students to reaching an answer.	5	Somewhat High	Very High	2-3 hours
	13	Flexible. Devotion of time to help students.	4.9	Extremely High	Extremely High	6-7 hours
	14	encouraging students to give their best effort and to express creativity	5	Very High	Very High	4-5 hours
	15	The instructor encouraged creativity and curiosity rather than assigning specific labs, and was very fair and understanding with the submission of reports.	3	Somewhat Low	Somewhat High	2-3 hours
	16	Was very helpful during lab times Did a great job in explaining topic that we might not have fully comprehended yet.	5	Extremely High	Extremely High	4-5 hours
	17	Prof. Placco makes himself very approachable to students and will do his best to answer questions directed at him.	3.1	Somewhat High	Somewhat High	2-3 hours
	19	Professor Placco always manages to put a smile on my face. He is great at facilitating discussion and making sure all opinions are heard.	4	Moderate	Very High	2-3 hours
	20	I think that Professor Placco's greatest strengths include his kindness and interest in the growth of each and every one of his students. Every class, partially joking, he doesn't continue talking after he's asked a question unless he gets a response from everyone (or at least a majority) showing that all of our thoughts are valid. He also begins every class by asking how each of us are, showing that he cares about us holistically. He also works to make sure each of us understand what we're doing and the subject at h..	4.8	Very High	Very High	4-5 hours
	21	Professor Placco is extremely intelligent and that transfers to his conducting of the course. Furthermore, he is truly down-to-Earth, and is also very clear regarding communication and frequently sends updates via email on what is necessary for the course and with reminders for it. In addition, he is perhaps one of the nicest professors that I have.	4.2	Very High	Very High	4-5 hours
	24	He was very straightforward and easy to approach when we needed help on the labs. He was also very kind and supported us on our different ideas for the labs by giving us advice and tips on how we could make them better and more efficient.	4.2	Very High	Very High	4-5 hours
	25	Professor Placco cared deeply about his students and was very helpful with getting reports done.	4.8	Extremely High	Extremely High	4-5 hours
	26	Very helpful in answering questions and made an effort to make sure we all understood error analysis. Prof Placco's explanations are very clear.	4.7	Extremely High	Very High	4-5 hours

Student Comments - Fall 2019 - PHYS 11411-01 - Moris Placco, Vinicius

Question Text	Student Ref #	Comment	Composite	Intellectual Challenge	Quality of Student Effort	Time outside Class
Please identify what you perceive to be the greatest strengths of this instructor's teaching.	27	Really good professor. Made physics even more interesting than it was already. Also made explanations that were inspiring but easy to understand. Just a really likable man.	5	Somewhat High	Somewhat High	8-10 hours
	28	Providing access to resources Guiding us on how to construct labs	3.6	Extremely High	Extremely High	4-5 hours
	30	Professor Placco makes physics lab an enjoyable time of the week through his dry sense of humor, and his demands that we engage ourselves with the material and "be present" during the lab. He is also very committed to helping us develop the skills required to be real scientists and researchers, and I very much appreciate this foresight.	2.9	Somewhat High	Very High	2-3 hours
	31	Professor Placco does a great job of running our lab course. I love how our labs are relatively open-ended and creativity is encouraged. Professor Placco is very helpful and also very flexible when students need extra time for a lab for any reason. He also encourages us to take ownership of our own learning. Professor Placco's sense of humor makes lab very fun as well.	5	Very High	Very High	6-7 hours
	32	He taught the course with an unmatched ferocity and excitement	5	Very High	Moderate	4-5 hours
	33	This instructor is an amazing person which really shows when the lab begins. He would always walk around making sure the students understood what they were doing and that they had all the materials necessary for the lab. This instructor would also take time in class to go over some of the more difficult parts of the lab to make sure that everyone understood what they were doing.	5	Extremely High	Extremely High	4-5 hours
	34	Placco is very approachable and friendly. He makes honest effort to help students and give students enough freedom to keep lab very engaging but not overwhelming.	5	Very High	Very High	2-3 hours