PHYS 2030-010 **Basic Physics Laboratory I** - Fall 2012

CGAS (11918)

INSTRUCTORS: Bychkov, Maksim (mab3ed) - **Feickert, Matthew (mcf2uk)**

Respondents: 17 / Enrollment: 22

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

1. How much did the demos, videos, and classroom activities, if applicable, contribute to your understanding of the subject matter?

~
Question Type: Short Answer
~
contributed by Department of Physics

Results for PHYS-2030-010

Total	Individual Answers
15	*See below for Individual Results*

The laboratory experiments were extremely helpful in cementing the concepts of each subject in my mind. Also, as the lab covered material that we had previously covered in lecture, it provided a useful review of the subject matter.

Mostly the classroom activities helped my understanding.

Very little. Rather than spending time learning the applications of the demos, I mostly spent time rushing to finish in time or trying to set up the program on the computer.

The labs helped enforce the physics laws we were testing.

The demonstrations were excellent and the activities were explained very well.

We didnt really have demos.

It helped to get ready for the lab.

Yeah, doing hands on experiments was a nice way of experiencing physics.

N/A

N/A

A lot.

There weren't any demos. The videos on Collab were useful. Classroom activities were ok, but they didn't help understand anything I didn't already know.

the lab helped to grasp the physical nature of what was taught in lecutre

Lots.

They reinforced what we learned in lecture by a lot.

2. Was the text informative and helpful?
~
Question Type: Short Answer
~
contributed by Department of Physics

Results for PHYS-2030-010

Total	Individual Answers
16	*See below for Individual Results*

Not very. The lab manual was essentially a repeat of what was in the text book.

The text was neither informative nor helpful. The text jumps around, had weird formatting, and was unclear on many concepts discussed in the background sections of the labs.

Yes.

Yes.

The manual could have more clearly organized and explained the overall concepts used in each lab.

Yes

Yes

Somewhat. Most of the information that I got was from the lecture textbook.

Sometimes it wasn't worded very well, but otherwise it was helpful.

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

The text was usually helpful in helping to understand.

Sometimes the lab manual was confusing.

The lab manual was riddled with errors. It was actually rather unacceptable.

The lab text was mostly effective at describing the procedures and concepts covered in each week's lab, however, it did contain quite a few typos and the organization of concepts in relation to individual activities was sometimes difficult to follow.

Yes.

It was semi-helpful in comprehending the labs.

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3. How many class and/or lab sessions did you attend during the semester (choose the closest answer)?
~
Question Type: Multiple Choice
~
contributed by Department of Physics

Results for PHYS-2030-010

Total	less than 1/8 of the sessions (NA)	about 1/4 of the sessions (NA)	about 1/2 of the sessions (NA)	about 3/4 of the sessions (NA)	nearly all of the sessions (NA)
17	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	17 (100.00%)

Results for Department of Physics - Fall, 2012

Total	less than 1/8 of the sessions (NA)	about 1/4 of the sessions (NA)	about 1/2 of the sessions (NA)	about 3/4 of the sessions (NA)	nearly all of the sessions (NA)
2090	31 (1.48%)	28 (1.34%)	59 (2.82%)	185 (8.85%)	1787 (85.50%)

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4. The average number of hours per week I spent outside of class preparing for this course was:
~
Question Type: Multiple Choice
~
contributed by Office of the Provost

Results for PHYS-2030-010

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
17	3 (17.65%)	14 (82.35%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
2094	258 (12.32%)	889 (42.45%)	622 (29.70%)	197 (9.41%)	128 (6.11%)

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5. I learned a great deal in this course.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-010

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	3.53	0.94	2 (11.76%)	8 (47.06%)	4 (23.53%)	3 (17.65%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2093	3.65	1.08	454 (21.69%)	883 (42.19%)	441 (21.07%)	204 (9.75%)	111 (5.30%)

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6. Overall, this was a worthwhile course.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-010

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	3.53	1.01	2 (11.76%)	8 (47.06%)	5 (29.41%)	1 (5.88%)	1 (5.88%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2091	3.55	1.16	449 (21.47%)	788 (37.69%)	470 (22.48%)	230 (11.00%)	154 (7.36%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

7. The course's goals and requirements were defined and adhered to by the instructor.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-010, Feickert, Matthew

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	4.41	0.80	9 (52.94%)	7 (41.18%)	0 (0.00%)	1 (5.88%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2521	4.00	0.98	881 (34.95%)	997 (39.55%)	459 (18.21%)	119 (4.72%)	65 (2.58%)

8. The instructor was approachable and made himself/herself available to students outside the classroom.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-010, Feickert, Matthew

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	4.65	0.49	11 (64.71%)	6 (35.29%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2514	3.88	1.08	881 (35.04%)	780 (31.03%)	608 (24.18%)	149 (5.93%)	96 (3.82%)

9. Overall, the instructor was an effective teacher.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-010, Feickert, Matthew

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
16	4.56	0.81	11 (68.75%)	4 (25.00%)	0 (0.00%)	1 (6.25%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2524	3.60	1.21	714 (28.29%)	738 (29.24%)	621 (24.60%)	255 (10.10%)	196 (7.77%)

10. Please make any overall comments or observations about this course:
~
Question Type: Short Answer
~
contributed by Office of the Provost

Results for PHYS-2030-010

Total	Individual Answers
13	*See below for Individual Results*

Matthew Feickert was always helpful in the lab and was always able to better explain difficult concepts.

Matthew was an excellent TA. For any classes like this one, all you can hope for is a good TA, and we got very lucky with Matt. He was very knowledgable, gave accurate and concise explanations, and was very approachable.

Nothing much to say but keep up the goodwork!

Matthew was a really awesome TA. He explained things well, led the class, and was super approachable. The only problem about the class was that it was a little too large so he had a little too much to do. I'm really happy to have had him as my TA this semester. Thanks Matt!

Matt did a really great job explaining things. He held office hours ALL OF THE TIME (like three or four times a week, which is IMPRESSIVE). I wasn't ever able to make any of them due to other class, but he really cared about whether we were learning (he asked us how our tests in the lecture course had gone, etc.), and he made sure to always ask us if he could do anything better to help us understand material. I really don't have any critiques because lab was mostly us doing things, but the couple of times he explained things he did it very well. I would give him an A for his work in the course - excellent effort and explanations.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Grading system unclear from the start. TAs and Yoon did nothing to make it clearer for students as to how they would be graded. They just said that grades would be curved down at the end, but TAs and Lab book often contradicted each other on how the curving would be done. Curving down is unacceptable. If everyone knows their concepts, then you shouldn't punish the person who gets a 91 a B. I understand the reason that you have to curve down is that almost everyone would get an A otherwise, but if that's the case, why don't you take a different approach and make the material harder? You could make the post-labs harder and that would create a wider distribution of scores. Or, you could discourage team work on answering questions during lab. If you did that, then scores in-lab would vary by group member and the people who knew what they were doing would still get their deserved A's and everyone else would get lower grades depending on their own ability without living off their partners. There are numerous ways to fix the grading in this course and if they are done, it will become an effective lab course just like the other lab courses at U.Va (organic, gen-chem, bio).
	Matthew has probably been one of the most helpful TA's that I have come across. He goes out of his way to make sure that we understand the materials. He often encourages us to come into office hours to go over material from both lab and lecture.
	intelligent ta, i was happy to have him lead the class
	Again, most of the time in lab was spent trying to figure out how to set up the apparatus or the computer, trying to figure out what the questions were asking and then rushing to simply finish in time.
	Matthew was a great TA. He was happy to help any student that needed it, and thoroughly explained any confusing material. I would definitely recommend him to other students!
	Matthew was a really good intructor, not only did he helped us get through the lab, but he also made sure that we were understanding the concepts behind it.
	It's a lot of work for a one credit course, other than that, it's not terrible. The pre-labs are pretty easy and the post quizzes aren't too bad. The lab questions are sometimes vague and it's not really clear as to what they want in your answers. Most of the time it seems like they want one sentence answers when in reality you need to write a paragraph. Matthew, the TA, was definately a huge help though!
	Matthew was a great T/A. He was very helpful, and tried to explain concepts to us he felt we didn't completely get.

PHYS 2030-017 **Basic Physics Laboratory I** - Fall 2012

CGAS (11925)

INSTRUCTORS: Bychkov, Maksim (mab3ed) - **Feickert, Matthew (mcf2uk)**

Respondents: 17 / Enrollment: 23

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

1. How much did the demos, videos, and classroom activities, if applicable, contribute to your understanding of the subject matter?
~
Question Type: Short Answer
~
contributed by Department of Physics

Results for PHYS-2030-017	
Total	Individual Answers
16	*See below for Individual Results*

A little bit. I thought that some of the labs were not particularly helpful in understanding the material.

They helped me prepare for the lab pretty well.

Yes.

The demos were helpful during the labs. Some of the directions of how to set everything up were a little unclear but not impossible to figure out.

I don't think those helped that much

The demonstrations at the beginning of class were helpful, but there should be more time given to the TA to explain the lab. If the TA gives a solid explanation, but takes too long, the class doesn't have sufficient time to finish the lab.

-Not applicable

Not much

Lab definitely helped me get a better grasp on the subject matter. I am a visual learner and learning hands on is something I really benefit from

The labs were very effective in helping me understand the lecture material.

not applicable

Did not watch any.

made me understand the subject better

I thought it was helpful for the most part. The videos in particular were helpful in giving me a better idea of what I'd be doing, as well as giving information about common mistakes or pitfalls that weren't necessarily in the manual.

They helped a whole lot and directly correlated with the class.

labs were relevant and helped to improve understanding of material

2. Was the text informative and helpful?
~
Question Type: Short Answer
~
contributed by Department of Physics

Results for PHYS-2030-017	
Total	Individual Answers
16	*See below for Individual Results*

Not really. More information needed.

The lab manual was poorly worded in multiple labs in the aspects of questions and explanations.

The lab manual was beneficial. I needed more material for some of the post-lab quizzes.

Yes.

Yes, it contained the information necessary for the labs.

text was somewhat helpful

Yes, very and at times more helpful than the actual textbook because they manual broke down dense material.

Yes

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

The text and equations were pretty helpful.

Text was helpful

not really, it was a handout, and it was not that informative

The lab manual guided the group along very well. While it is riddled with typos, it clearly outlines the steps for lab and what the concepts are.

The text was generally helpful, although there were many odd typos or missing citations, footnotes, etc.

yes

The text was semi-helpful. But I felt that background knowledge from the course was definitely needed.

Not usually

3. How many class and/or lab sessions did you attend during the semester (choose the closest answer)?
~
Question Type: Multiple Choice
~
contributed by Department of Physics

Results for PHYS-2030-017

Total	less than 1/8 of the sessions (NA)	about 1/4 of the sessions (NA)	about 1/2 of the sessions (NA)	about 3/4 of the sessions (NA)	nearly all of the sessions (NA)
17	0 (0.00%)	0 (0.00%)	1 (5.88%)	0 (0.00%)	16 (94.12%)

Results for Department of Physics - Fall, 2012

Total	less than 1/8 of the sessions (NA)	about 1/4 of the sessions (NA)	about 1/2 of the sessions (NA)	about 3/4 of the sessions (NA)	nearly all of the sessions (NA)
2090	31 (1.48%)	28 (1.34%)	59 (2.82%)	185 (8.85%)	1787 (85.50%)

4. The average number of hours per week I spent outside of class preparing for this course was:
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Question Type: Multiple Choice
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contributed by Office of the Provost

Results for PHYS-2030-017

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
17	2 (11.76%)	14 (82.35%)	1 (5.88%)	0 (0.00%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
2094	258 (12.32%)	889 (42.45%)	622 (29.70%)	197 (9.41%)	128 (6.11%)

5. I learned a great deal in this course.
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Question Type: Likert
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contributed by Office of the Provost

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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

6. Overall, this was a worthwhile course.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-017

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	3.35	1.17	2 (11.76%)	7 (41.18%)	5 (29.41%)	1 (5.88%)	2 (11.76%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2091	3.55	1.16	449 (21.47%)	788 (37.69%)	470 (22.48%)	230 (11.00%)	154 (7.36%)

7. The course's goals and requirements were defined and adhered to by the instructor.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-017, Feickert, Matthew

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	4.76	0.44	13 (76.47%)	4 (23.53%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2521	4.00	0.98	881 (34.95%)	997 (39.55%)	459 (18.21%)	119 (4.72%)	65 (2.58%)

8. The instructor was approachable and made himself/herself available to students outside the classroom.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for PHYS-2030-017, Feickert, Matthew

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Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
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Question Type: Likert
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contributed by Office of the Provost

Results for PHYS-2030-017, Feickert, Matthew

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
17	4.76	0.44	13 (76.47%)	4 (23.53%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for Department of Physics - Fall, 2012

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2524	3.60	1.21	714 (28.29%)	738 (29.24%)	621 (24.60%)	255 (10.10%)	196 (7.77%)

10. Please make any overall comments or observations about this course:
~
Question Type: Short Answer
~
contributed by Office of the Provost

Results for PHYS-2030-017

Total	Individual Answers
14	*See below for Individual Results*

Matt did a good job and was a great TA. In all honesty he was perhaps the most approachable TA I have had here at UVA.

Compared to other TAs, Matt seems harsh at grading, but then again the course is ranking, so it should be fine.

Feickert was a very good TA and was a great help during lab. He made things easier and help us get concepts easily.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Matthew was a great TA. He showed a lot of concern for how the students were doing in the class and made himself accessible. He was also very approachable and knowledgeable about the material. I don't think there's any major area he could improve upon -- he's a good TA. I never saw Maksim Bychkov except on the first day of class and sometimes when he would drop in to talk to Matthew. Matthew did all of the instructing, and he was great. He made sure to explain the difficult parts before we got started with the labs, and he was very quick to respond to questions during the lab. Overall he was great and one of the best TAs I've had at UVA! Matt was probably the best TA I have had out of any of my science labs thus far at UVA. He really took the time to explain things and was a very approachable person. The labs were so fast and had so much at once that learning had to be skipped over many times Matt did a great job as TA. Grading in this class needs to be reconsidered. I have yet to receive a grade but am anticipating that my grade will be scaled down from a 94%. This is unfair and you need to make it so students have more control over how they do in the class and not base the grade on how others do. If you need to make the material harder so that the mean is lower, do that. With regards to Matthew Feickert: this guy is probably one of the best TAs I have ever had. He is genuinely concerned with you understanding the material and is very good with responding to emails and explaining concepts. I would dare say that I learned more physics in physics lab than in lecture. Hard to comment on Prof. Bychkov, I had no interaction with him. You were very helpful in office hours. I appreciated that you took the time to explain concepts from a broad perspective and then in specific to a particular problem. It helped to see problems worked out step by step on the board... something that it not done in lecture. You're a cool guy. Stay classy. Matthew was a great TA, and I would say he's been one of the best I've had here over the course of two and a half years. He's genuinely a nice person and always happy to help. One of the greatest things about him was how approachable he is. I never felt embarrassed to ask a question because I knew he would take it seriously, and he always took the time to give a good answer so I would truly understand. I have absolutely no complaints, so Matthew, thank you, and keep doing what you're doing! Matt was an awesome TA! He could explain everything anyone did understand and was willing to explain it a million times until it clicked. Definitely my favorite TA of the semester, and definitely my favorite teacher out of all my professors from all of my classes. He really made an effort to see us succeed and that's really cool! Prof Bychkov is also extremely flexible- I had a conflict with going to lab one week and he let me choose another lab section to make up for it. I know in Chem lab that would have never been okay, so it is nice to know that some instructors realize that we are humans and not robots and are willing to accommodate to different needs. I thought Matthew was a good TA. He knew how the labs worked and was able to answer any questions that we had. Awesome TA!! Made himself easy to approach, available all the time, and great help during office hours.