

Clemson University
202008 Fall 2020 Full Term

Course: PHYS-2450-001: Physics of Climate
Instructor: Jens Oberheide *
Response Rate: 39/122 (31.97 %)

1 - The instructor clearly communicated what I was expected to learn.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Strongly Disagree		(1)	1	2.56%		4.41		4.29			4.15			4.18		
Disagree		(2)	1	2.56%		4.41		4.29			4.15			4.18		
Neutral		(3)	0	0.00%		4.41		4.29			4.15			4.18		
Agree		(4)	16	41.03%		4.41		4.29			4.15			4.18		
Strongly Agree		(5)	21	53.85%		4.41		4.29			4.15			4.18		
N/A - Did not have this instructor		(0)	0	0.00%		4.41		4.29			4.15			4.18		
Response Rate		Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
39/122 (31.97%)		4.41	0.85	5.00	70182	4.29	0.97	5.00	17165	4.15	1.05	4.00	2378	4.18	0.89	4.00

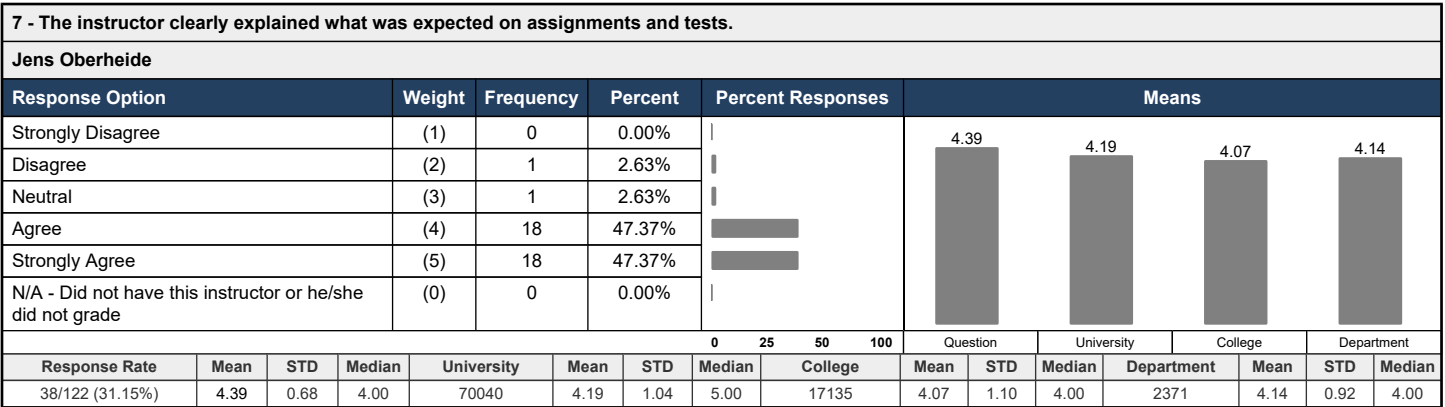
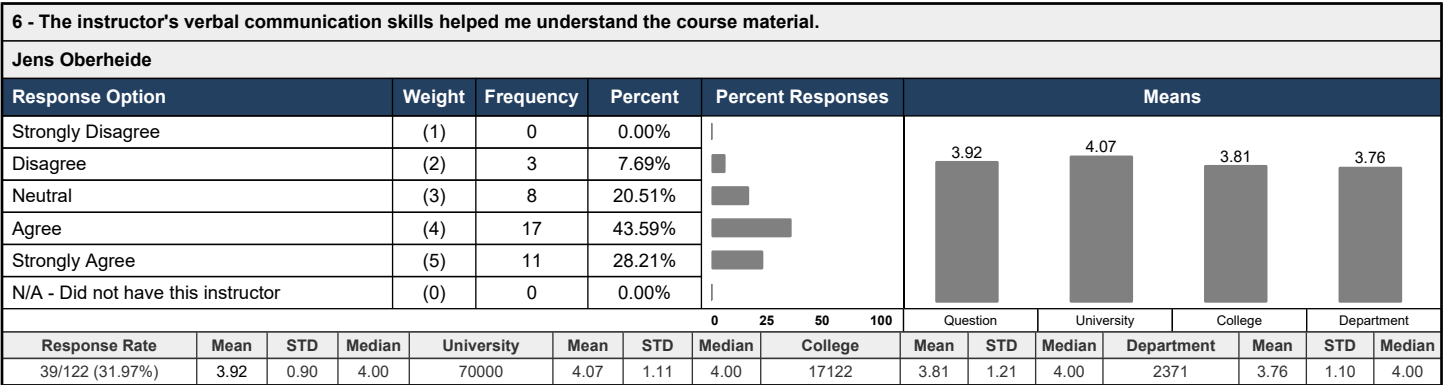
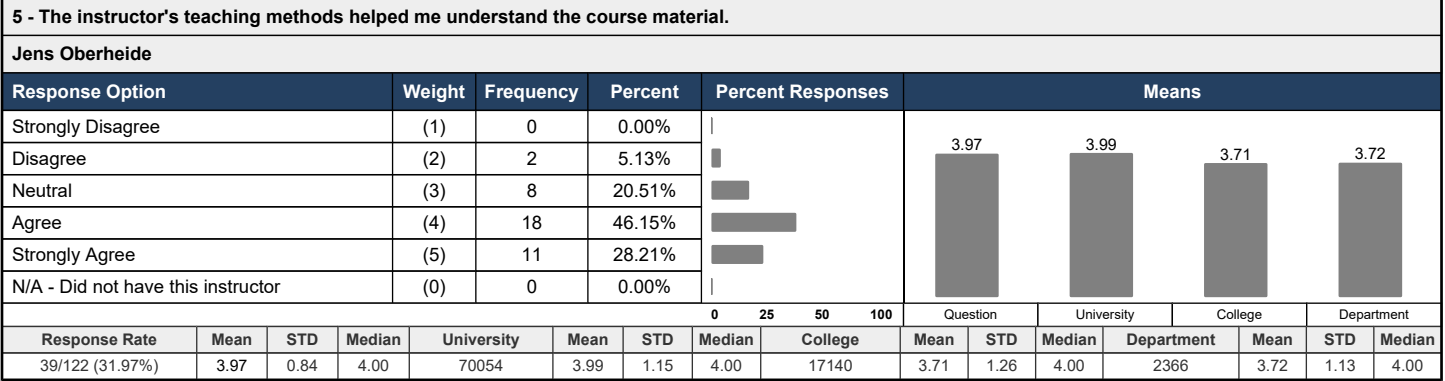
2 - The instructor made the relevance of the course material clear.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Strongly Disagree		(1)	0	0.00%		4.69		4.32			4.11			4.12		
Disagree		(2)	0	0.00%		4.69		4.32			4.11			4.12		
Neutral		(3)	0	0.00%		4.69		4.32			4.11			4.12		
Agree		(4)	12	30.77%		4.69		4.32			4.11			4.12		
Strongly Agree		(5)	27	69.23%		4.69		4.32			4.11			4.12		
N/A - Did not have this instructor		(0)	0	0.00%		4.69		4.32			4.11			4.12		
Response Rate		Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
39/122 (31.97%)		4.69	0.47	5.00	70068	4.32	0.94	5.00	17139	4.11	1.04	4.00	2374	4.12	0.93	4.00

3 - The course was well-organized.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Strongly Disagree		(1)	0	0.00%		4.67		4.12			3.98			4.09		
Disagree		(2)	0	0.00%		4.67		4.12			3.98			4.09		
Neutral		(3)	0	0.00%		4.67		4.12			3.98			4.09		
Agree		(4)	13	33.33%		4.67		4.12			3.98			4.09		
Strongly Agree		(5)	26	66.67%		4.67		4.12			3.98			4.09		
N/A - Did not have this instructor		(0)	0	0.00%		4.67		4.12			3.98			4.09		
Response Rate		Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
39/122 (31.97%)		4.67	0.48	5.00	67298	4.12	1.04	4.00	16476	3.98	1.13	4.00	2085	4.09	0.95	4.00

4 - There was a positive interaction between the class and the instructor.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Strongly Disagree		(1)	0	0.00%		4.49		4.27			4.12			4.12		
Disagree		(2)	0	0.00%		4.49		4.27			4.12			4.12		
Neutral		(3)	3	7.69%		4.49		4.27			4.12			4.12		
Agree		(4)	14	35.90%		4.49		4.27			4.12			4.12		
Strongly Agree		(5)	22	56.41%		4.49		4.27			4.12			4.12		
N/A - Did not have this instructor		(0)	0	0.00%		4.49		4.27			4.12			4.12		
Response Rate		Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
39/122 (31.97%)		4.49	0.64	5.00	70051	4.27	0.99	5.00	17125	4.12	1.07	4.00	2373	4.12	0.92	4.00

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8 - The instructor kept me informed about my progress in the course.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses				Means							
Strongly Disagree		(1)	0	0.00%					4.26		4.13		3.97		4.11	
Disagree		(2)	0	0.00%												
Neutral		(3)	7	17.95%	█											
Agree		(4)	15	38.46%	██											
Strongly Agree		(5)	17	43.59%	████											
N/A - Did not have this instructor		(0)	0	0.00%												
					0	25	50	100	Question		University		College		Department	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
39/122 (31.97%)	4.26	0.75	4.00	70015	4.13	1.05	4.00	17119	3.97	1.13	4.00	2366	4.11	0.92	4.00	

9 - The feedback I received on assignments and tests gave me the opportunity to improve my performance.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses				Means							
Strongly Disagree		(1)	0	0.00%					3.92		3.99		3.73		3.78	
Disagree		(2)	0	0.00%												
Neutral		(3)	15	38.46%	██											
Agree		(4)	12	30.77%	██											
Strongly Agree		(5)	12	30.77%	██											
N/A - Did not have this instructor or he/she did not grade		(0)	0	0.00%												
					0	25	50	100	Question		University		College		Department	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
39/122 (31.97%)	3.92	0.84	4.00	70033	3.99	1.12	4.00	17130	3.73	1.20	4.00	2373	3.78	1.08	4.00	

10 - The instructor's grading procedures gave a fair evaluation of my understanding of the material. (If this instructor did not do any grading, choose not applicable)																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses				Means							
Strongly Disagree		(1)	0	0.00%					4.38		4.20		4.02		4.13	
Disagree		(2)	1	2.56%												
Neutral		(3)	2	5.13%												
Agree		(4)	17	43.59%	██											
Strongly Agree		(5)	19	48.72%	████											
N/A - Did not have this instructor or he/she did not grade		(0)	0	0.00%												
					0	25	50	100	Question		University		College		Department	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
39/122 (31.97%)	4.38	0.71	4.00	69982	4.20	1.00	4.00	17118	4.02	1.06	4.00	2372	4.13	0.87	4.00	

11 - How much work did you put into this course relative to your other courses?																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses				Means							
Much less work in this course		(1)	0	0.00%					3.13		3.30		3.61		3.54	
Less work in this course		(2)	7	17.95%	█											
About the same		(3)	21	53.85%	████											
More work in this course		(4)	10	25.64%	██											
Much more work in this course		(5)	1	2.56%												
					0	25	50	100	Question		University		College		Department	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
39/122 (31.97%)	3.13	0.73	3.00	67317	3.30	1.00	3.00	16479	3.61	0.98	4.00	2085	3.54	0.94	4.00	

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12 - How difficult was this course for you relative to your other courses?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Much easier than other courses		(1)	0	0.00%												
Somewhat easier than other courses		(2)	9	23.08%	█											
About the same		(3)	12	30.77%	█											
More difficult than other courses		(4)	14	35.90%	█											
Much more difficult than other courses		(5)	4	10.26%	█											
Not sure/New student at CU		(0)	0	0.00%												
					0	25	50	100	Question		University		College		Department	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
39/122 (31.97%)	3.33	0.96	3.00	67391	3.19	1.09	3.00	16495	3.60	1.06	4.00	2085	3.58	1.02	4.00	

13 - Was this course required to graduate?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	20	51.28%	█											
No		(2)	19	48.72%	█											
					0	25	50	100								
Response Rate 39/122 (31.97%)																

14 - Was this course in your major?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	4	10.26%	█											
No		(2)	35	89.74%	█											
					0	25	50	100								
Response Rate 39/122 (31.97%)																

15 - Was this course team-taught?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	2	5.26%	█											
No		(2)	36	94.74%	█											
					0	25	50	100								
Response Rate 38/122 (31.15%)																

16 - Please indicate your satisfaction with the availability of the instructor outside the classroom by choosing one response from the scale. In selecting your rating, consider the instructor's availability via established office hours, appointments, and other opportunities for face-to-face interaction as well as via telephone, email, fax and other means.																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Very Dissatisfied		(1)	0	0.00%												
Dissatisfied		(2)	0	0.00%												
Satisfied		(3)	19	50.00%	█											
Very Satisfied		(4)	19	50.00%	█											
					0	25	50	100	Question		University		College		Department	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
38/122 (31.15%)	3.50	0.51	3.50	66963	3.39	0.68	3.00	16390	3.29	0.71	3.00	2077	3.26	0.60	3.00	

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17 - Please comment on the strengths of the instructor and the course.

Jens Oberheide

Response Rate	32/122 (26.23%)
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- Amazing professor with amazing personality, and he was very nice and constantly helped me when I got sick. The TA helped him perfectly to help communicate questions. There was a lot he did great amazing guy.
- Dr. Oberheide always had available office hours and always responded to emails very quickly.
- Extremely smart man - I would be enjoy if he taught additional classes on this topic. Manages to stay politically neutral and speak from a scientific standpoint to let students use the proven evidence to form their own opinions.
- He did a great job putting power points together and the organization of the course.
- Overall good lecturer and instructor.
- Very instructional and very well put together. Not a fan of the test style. I think it kind of defeats the purpose of a normal testing environment and doesn't work in the students favor. I enjoyed the physics aspect of the course. I wish there was a little more focus on understanding the physics conceptionally with a few extra problems.
- really nice and interesting guy
- Always available for students, made expectations of daily assignments, homework, and exams very clear, conveyed content of course very clearly.
- Dr. Oberheide made it very clear as to what was expected on the assignments as well as the tests. He was always available for one on one zoom time if you needed it and he always encouraged questions during lectures and answered them to the best of his knowledge.
- Clearly extremely intelligent, has a strong knowledge of the subject area. Really felt like you were learning from an expert in the field.
- Dr. Oberheide's background enables him to explain many questions I've asked
- Very knowledgeable about the material, related it to current world issues, clearly relayed the importance of the subject.
- He is very optimistic and involves in class a lot. He is very organized and we know what to do every week without his inform.
- Professor Oberheide was very knowledgeable and knew what he was teaching. His presentations were very thorough and kept us well informed. He was extremely fair with assignments, quizzes, and tests. He wanted his students to really learn the material rather just getting a good grade.
- Dr. Oberheide is passionate about the course topics and makes the relevance of climate change abundantly clear. He knows his material and does well to communicate the material to his students. I enjoyed learning about a topic that's important to me and appreciate that a course like this is offered that discusses science, economics, and policy.
- Professor Oberheide was the most organized teacher I've ever had, he made weekly schedules with dates, to-dos, and deadlines, it was all clearly written out and I was never confused on when something was due, this I found extremely helpful given that it was a hybrid course and sometimes its hard to keep track of different things. The class was structured in the same way, so this got us into a routine
- Very structured, lots of opportunities to maintain your grade and keep it up
- I really enjoyed the way that this class was taught. I think doing the reading outside of class and the knowledges checks helped understand the material. Then, in class, the material was more explicitly explained which helped me understand the material well.
- He was clear about the material and had a strong understanding of the system of climate change.
- Dr. Oberheide was passionate about the material and often discussed the real-life implications of what we were learning
- He very much enjoys teaching his students and he was a very great instructor.
- Dr. Oberheide is a really great professor. He made this topic very interesting and also kept his lectures relevant. He was funny and passionate about being a physicist and that was clear to all of us. He also made sure we were fully prepared for each exam. I would 100% take another course with him. He was also extremely organized. It helped so much for us to be able to see a checklist of things we needed to complete each day/week and I know he put a lot of time into putting that organization up for us.
- He was very organized and had the course planned out well.
- Taught very well, and communicated well.
- Course structure and expectations were clearly laid out from day 1 and stayed consistent throughout the course. Dr. Oberheide was very clear in what we were to do/learn for each module/lesson and provided several different resources and ways to learn and understand the material. He was also good at communicating important announcements while not bombarding us with notifications. Good quiz and homework questions to test our knowledge and prepare us for the exam.
- comprehensive knowledge on the subject
- It thought this class was very well put taught and put together, especially considering the circumstances of this semester. The professor was very knowledgeable of the subject and made the information interesting. TA did great too!
- He was very organized, and I always knew when assignments were due. There were never any surprise assignments, which I liked. I really like when I know exactly what assignments I have every week.
- He is very organized, he knows what he is talking about, and he has the class set up well.
- He is a very pleasing person who is very passionate about what he teaches. He understands that students are in numerous classes and is accommodating.
- good communication and kept us up to date
- I liked that the course not only taught me the science but also a little of the politics which helps me understand the science because in the real world you have to deal with politics.

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Response Rate: 39/122 (31.97 %)

18 - Please comment on the weaknesses of the instructor and the course.

Jens Oberheide

Response Rate	28/122 (22.95%)
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- Not professors fault but the technology he was given.
- I personally struggled with the math concepts from time to time.
- I can not think of any
- It was hard to grasp the material because he knows it so well and I had no prior knowledge of the material before the class.
- none, the math was pretty hard but the memorization was real interesting
- Goes over the same notes we take before class in class, so every class acts almost as a review of notes we have already taken.
- The only weakness I can think of is maybe his monotone voice, but that isn't really that big of an issue in the long run.
- Especially over Zoom, can be a little difficult to understand at times.
- His accent does make him hard to understand sometimes
- Course material was personally difficult to understand, utilized a lot of mathematical formulas but didn't really clearly explain when and how to use them.
- The work load is too heavy.
- One weakness that I would point out is during the math calculations of this courses, they were very difficult to comprehend. Professor Oberheide did his best to further explain them but it was still confusing to understand.
- Aspects of the course I feel could've been better were the instructor's treatment of math problems and knowledge checks assigned before lecture. Math can be hard to follow and understand unless someone talks you through it, and often problems would be presented on pre-constructed powerpoint slides. This made it difficult at times to understand and follow. On top of that, the math that was expected of us on knowledge checks immediately after teaching ourselves material from Power-points were overly difficult at times. Dr. Oberheide and the TA provided solutions to difficult problems after the fact, but having to struggle through particular questions before being taught the material was a bit much in my opinion for a general Ed course.
- The exams didn't really give us a whole lot of time and also it was difficult because we couldnt go back to a certain questions so I felt like I was constantly rushing through them
- The lectures didn't really do much to explain the material
- N/A
- I don't have any comments, I enjoyed the teaching style.
- none
- None
- The only weakness I would say is that sometimes the homeworks and quizzes had incorrect answer so when you would re-attempt the homework or quiz thinking you got it wrong, you select what the computer thought was the "right answer" then later, it would be realized that it was incorrect and so the grades would be adjusted to give points to those who selected the actual correct answer. But that only happened if you left you answer incorrect from your first attempt. This made it a little confusing and frustrating at times getting points taken off even though we had gotten the answer correct the first time. This only happened about 5-8 times through the whole course so it wasn't a huge problem but just something that made it a little confusing whether you actually understood the material or not when your answer was marked wrong.
- Occasional technical difficulties with zoom.
- Just was hard to understand at some times.
- Lots of little tedious assignments to do at specific times each week was sometimes challenging to stay on top of.
- n/A
- Sometimes the questions on homework or knowledge checks seemed way above my head!
- Sometimes the class can seem repetitive.
- He has a thick accent which sometimes made it hard to understand.
- none

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Response Rate: 39/122 (31.97 %)

19 - Please comment on any teaching methods you found particularly helpful, and suggest alternative methods that you feel would improve the course.

Response Rate	29/122 (23.77%)
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- I think the learning method was great
- I liked having powerpoints and in class quizzes because they helped me learn the material.
- The availability of lecture powerpoints to take notes before class, so in class students could spend more time listening than writing.
- I enjoyed the power point slides.
- The flipped classroom was time consuming, but effective.
- really liked how the homework was orginized
- I really liked the daily knowledge-checks, as well as the knowledge-checks due before class.
- Dr. Oberheide's availability and clear and concise instructions on assignments and tests were easy to understand and helpful with the learning process.
- Reviewing slides before class was extremely helpful.
- Rafael, the UTA was great
- Simplification of material for better understanding could be a helpful change
- Very nice. I don't really think he needs to improve. Just as it is.
- He would give in-class quizzes that were very resourceful during the exams. He also presented us with two PowerPoints to reiterate anything that we may have missed while reviewing outside of class. He also gave us checkpoints during each unit to make sure we understood everything from each unit.
- Helpful teaching methods included in class review sessions prior to exam and multiple ways to earn points every week (in class quizzes, KCs, homeworks). If someone were to struggle with the KCs as I mentioned before, at least they would be able to learn about what they missed in the next class and hopefully get points from quizzes/hw.
- The scheudules were so helpful and having a pattern to follow was nice because we would do the same things each class so we were never confused on what to do
- Go into more depth on the math aspects of this course, as after much explaining they are still very difficult to understand.
- I liked the power-points in class.
- I like the powerpoint teaching style because it gives us a clear understanding of the material to learn.
- Pre-lecture knowledge checks forced me to keep up with the material and helped lectures run smoothly because I already had an idea of what we would be discussing in class.
- I found the before class quizzes and lecture PowerPoints helpful
- I really loved the organization of this course. The knowledge checks felt like busy work more than anything else but I do feel like they helped prepare me for the lectures before hand and made it so I didn't really need to even study for the exams. The only improvement I can suggest is maybe having a TA double check each homework and quiz to make sure the "right answer" is selected correctly as the right answer.
- The knowledge checks and daily class quizzes were helpful in making sure I understood the content or what I needed help with.
- The in-class quizzes were helpful/
- Knowledge checks were a great way to gauge how well I learned/understood the lesson and prepared me for the type of questions I would see on the exam.
- its hard to tell due to the covid procedures we had to take
- I think that the knowledge checks were very helpful in keeping up to date with study materials
- The class slides are extremely helpful and really helped me learn.
- I think them knowledge checks helpednyou know and prepare for thee future exams while boosting your grade.
- the knowledge checks were nice to help us understand what we would be talking about in class

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20 - Would you recommend this instructor to a friend? Yes or no? Why?

Jens Oberheide

Response Rate	33/122 (27.05%)
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- YES because of how amazing this professor was and how well he taught the course. He could also make me laugh and have a good time while in class and the grading system was even better and fair.
- Yes because the course is informative to know about and the class was not too bad with courseload,
- Yes, I would recommend Dr. Oberheide as an instructor. I believe this class was taught very well and he told us exactly what we needed to know. This class was also structured very easily to follow along and be sure not to miss any assignments.
- Yes!!! This class, as well as Dr. Oberheide, was very enjoyable. I certainly feel as though I have learned the most information, and the most useful information, in this class in comparison to my other courses.
- yes, he really is into the things that he is teaching. I wasn't interested so it was hard for me to grasp the concepts and keep up.
- Yes, he did a good job.
- Yes, he is a very nice guy and is a good teacher. I didn't know what to expect going into this class because I am not that great at physics but I did have some interested in learning about climate change. Dr. Oberheide made the content interesting and he has a great personality.
- Yes. If you're interested in climate change, this course is for you!
- probably not because it was real hard but i could handle it
- Yes- very interesting and a great professor.
- I would most definitely recommend Dr. Oberheide to a friend because his class is informative, his teaching methods are straightforward, and his personality makes the class easy to learn.
- Yes, the course is very well structured, and he teaches the class well. Really felt like you were learning from an expert in the field.
- Yes. Didn't really enjoy this class, but Dr. Oberheide is a good guy.
- Yes, he provides good insight into the importance of combatting climate change.
- Yes, a very nice teacher teaching the course. You could learn a lot.
- Yes, I would recommend this instructor to a friend because he is very understanding and truly loves what he teaches. It is pretty easy to pass his class because he gives you so many opportunities to bump your grade up. He made this course very enjoyable for me and would make it enjoyable for the next set of students as well.
- Yes, I greatly enjoyed Dr. Oberheide as a professor. He is an effective communicator and that's one thing I expect to see from a professor.
- yes, dude is cool and passionate about what he teaches.
- Yes I would because he was a very nice guy, he seems very interested in the material he teaches, hes very organized, you always know what you need to do, you are being challenged yet having fun with what youre learning
- Yes, he's very knowledgeable and clearly puts lots of effort towards the course and its material.
- I would recommend this instructor to a friend because I think that this instructor is very knowledgeable and passionate about teaching. I really enjoyed this particular course and I thought that the material was very interesting.
- Yes, he was a good instructor that cares about students understanding the material and answering our questions about climate change.
- yes because he was very helpful when students needed clarification on any concepts
- Yes, he is a good instructor who enjoys the class and the students
- I definitely would. For reasons, I stated above, Dr. Oberheide is an excellent instructor and made the class enjoyable and I learned a lot without being super stressed out. I feel like I took a lot of knowledge away from this class that will help me not only in my career but also in helping others understand the importance of changing the future of global warming. For the TA: He was really great. Almost every day, people would ask questions in the chat that had already been answered by Dr. Oberheide but since they weren't listening well, they missed it. Despite this, our TA answered the questions in the chat respectfully and in detail (I'm not sure I would have had the patience to do that). He reduced the amount of questions being asked to Dr. Oberheide during lectures by answer other questions in chat if it was one he could answer confidently. If not, he would wait until an appropriate time to ask the instructor the question. He was great.
- I would recommend to friends who have a background knowledge in physics because some of the math can be hard to understand and you are quizzed on it before really learning about it.
- Yes, he is a good teacher and helps a lot with the homework and quizzes.
- Yes, course was very well structured and expectations clearly set. Very interesting subject matter of relevance in society today.
- yes, the class is interesting and i had no complaints with the teacher
- Yes! Class was super interesting.
- Yes. Dr. Oberheide is a very rational, nice, smart, and qualified professor
- Yes I think he is a great professor and its an easy A in the class if you do the work.
- yes because the course was organized and not excessively hard