

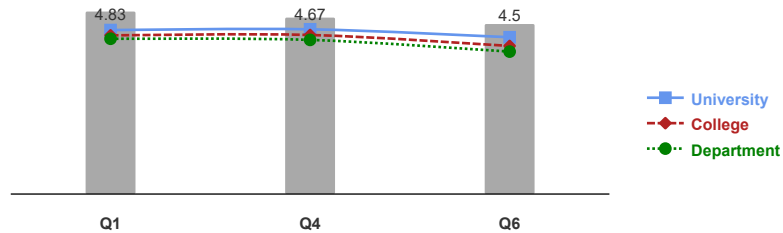
Clemson University

202201 Spring 2022 Evaluations

Course: PHYS-6650-001: Thermo and Stat Mech: 202201-PHYS-6650-001-11321-Oberheide
Instructor: Jens Oberheide *
Response Rate: 6/7 (85.71 %)

At A Glance:Communication

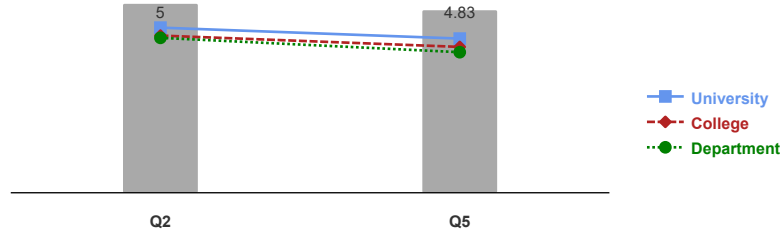
Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree
N/A - Did not have this instructor



Q1 - The instructor clearly communicated what I was expected to learn.
 Q4 - There was a positive interaction between the class and the instructor.
 Q6 - The instructor's verbal communication skills helped me understand the course material.

At A Glance:Course Org and Relevance

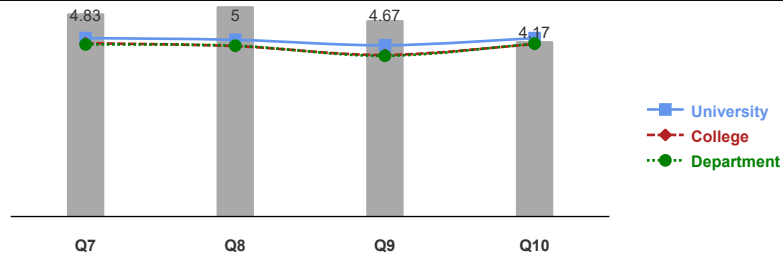
Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree
N/A - Did not have this instructor



Q2 - The instructor made the relevance of the course material clear.
 Q5 - The instructor's teaching methods helped me understand the course material.

At A Glance:Grading and Progress Reports

Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree
N/A - Did not have this instructor or he/she did not grade



Q7 - The instructor clearly explained what was expected on assignments and tests.
 Q8 - The instructor kept me informed about my progress in the course.
 Q9 - The feedback I received on assignments and tests gave me the opportunity to improve my performance.
 Q10 - 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)

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1 - The instructor clearly communicated what I was expected to learn.

Jens Oberheide

Response Option	Weight	Frequency	Percent	Percent Responses	Means															
Strongly Disagree	(1)	0	0.00%		4.83	4.34	4.20	4.11	Question			University			College			Department		
Disagree	(2)	0	0.00%																	
Neutral	(3)	0	0.00%																	
Agree	(4)	1	16.67%																	
Strongly Agree	(5)	5	83.33%																	
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					
6/7 (85.71%)	4.83	0.41	5.00	65538	4.34	0.94	5.00	14504	4.20	1.03	4.00	2479	4.11	0.96	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%		5.00	4.37	4.16	4.10	Question			University			College			Department		
Disagree	(2)	0	0.00%																	
Neutral	(3)	0	0.00%																	
Agree	(4)	0	0.00%																	
Strongly Agree	(5)	6	100.00%																	
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					
6/7 (85.71%)	5.00	0.00	5.00	65440	4.37	0.91	5.00	14483	4.16	1.04	4.00	2474	4.10	0.97	4.00					

3 - The course was well-organized.

Response Option	Weight	Frequency	Percent	Percent Responses	Means															
Strongly Disagree	(1)	0	0.00%		4.83	4.19	4.10	4.05	Question			University			College			Department		
Disagree	(2)	0	0.00%																	
Neutral	(3)	0	0.00%																	
Agree	(4)	1	16.67%																	
Strongly Agree	(5)	5	83.33%																	
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					
6/7 (85.71%)	4.83	0.41	5.00	65322	4.19	1.01	4.00	14462	4.10	1.06	4.00	2463	4.05	0.94	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%		4.67	4.36	4.21	4.08	Question			University			College			Department		
Disagree	(2)	0	0.00%																	
Neutral	(3)	0	0.00%																	
Agree	(4)	2	33.33%																	
Strongly Agree	(5)	4	66.67%																	
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					
6/7 (85.71%)	4.67	0.52	5.00	65413	4.36	0.94	5.00	14477	4.21	1.05	5.00	2469	4.08	0.97	4.00					

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5 - The instructor's teaching methods helped me understand the course material.																					
Jens Oberheide																					
Response Option		Weight	Frequency	Percent	Percent Responses	Means															
Strongly Disagree		(1)	0	0.00%		4.83	4.08	3.86	3.72	Question			University			College			Department		
Disagree		(2)	0	0.00%																	
Neutral		(3)	0	0.00%																	
Agree		(4)	1	16.67%																	
Strongly Agree		(5)	5	83.33%																	
N/A - Did not have this instructor		(0)	0	0.00%																	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median						
6/7 (85.71%)	4.83	0.41	5.00	65410	4.08	1.12	4.00	14478	3.86	1.23	4.00	2478	3.72	1.20	4.00						

6 - The instructor's verbal communication skills helped me understand the course material.																					
Jens Oberheide																					
Response Option		Weight	Frequency	Percent	Percent Responses	Means															
Strongly Disagree		(1)	0	0.00%		4.50	4.15	3.92	3.77	Question			University			College			Department		
Disagree		(2)	0	0.00%																	
Neutral		(3)	0	0.00%																	
Agree		(4)	3	50.00%																	
Strongly Agree		(5)	3	50.00%																	
N/A - Did not have this instructor		(0)	0	0.00%																	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median						
6/7 (85.71%)	4.50	0.55	4.50	65381	4.15	1.08	4.00	14479	3.92	1.20	4.00	2472	3.77	1.17	4.00						

7 - The instructor clearly explained what was expected on assignments and tests.																					
Jens Oberheide																					
Response Option		Weight	Frequency	Percent	Percent Responses	Means															
Strongly Disagree		(1)	0	0.00%		4.83	4.24	4.12	4.09	Question			University			College			Department		
Disagree		(2)	0	0.00%																	
Neutral		(3)	0	0.00%																	
Agree		(4)	1	16.67%																	
Strongly Agree		(5)	5	83.33%																	
N/A - Did not have this instructor or he/she did not grade		(0)	0	0.00%																	
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median						
6/7 (85.71%)	4.83	0.41	5.00	65400	4.24	1.02	5.00	14473	4.12	1.08	4.00	2471	4.09	0.97	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%		5.00		4.20			4.05			4.06				
Disagree		(2)	0	0.00%														
Neutral		(3)	0	0.00%														
Agree		(4)	0	0.00%														
Strongly Agree		(5)	6	100.00%														
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			
6/7 (85.71%)	5.00	0.00	5.00	65427	4.20	1.02	4.00	14481	4.05	1.12	4.00	2475	4.06	0.95	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%		4.67		4.07			3.84			3.82				
Disagree		(2)	0	0.00%														
Neutral		(3)	0	0.00%														
Agree		(4)	2	33.33%														
Strongly Agree		(5)	4	66.67%														
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			
6/7 (85.71%)	4.67	0.52	5.00	65409	4.07	1.09	4.00	14482	3.84	1.19	4.00	2475	3.82	1.10	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%		4.17		4.24			4.10			4.11				
Disagree		(2)	0	0.00%														
Neutral		(3)	2	33.33%														
Agree		(4)	1	16.67%														
Strongly Agree		(5)	3	50.00%														
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			
6/7 (85.71%)	4.17	0.98	4.50	65356	4.24	0.98	5.00	14465	4.10	1.06	4.00	2472	4.11	0.91	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%		4.50		3.29			3.65			3.47				
Less work in this course		(2)	0	0.00%														
About the same		(3)	1	16.67%														
More work in this course		(4)	1	16.67%														
Much more work in this course		(5)	4	66.67%														
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			
6/7 (85.71%)	4.50	0.84	5.00	65358	3.29	0.97	3.00	14465	3.65	0.94	4.00	2464	3.47	0.91	3.00			

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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%		4.50				3.21			3.69		3.51	
Somewhat easier than other courses		(2)	0	0.00%												
About the same		(3)	1	16.67%												
More difficult than other courses		(4)	1	16.67%												
Much more difficult than other courses		(5)	4	66.67%												
Not sure/New student at CU		(0)	0	0.00%												
0 25 50 100																
Response Rate		Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
6/7 (85.71%)		4.50	0.84	5.00	65437	3.21	1.07	3.00	14487	3.69	1.01	4.00	2472	3.51	0.98	4.00

13 - Was this course required to graduate?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	3	50.00%												
No		(2)	3	50.00%												
0 25 50 100																
Response Rate																
6/7 (85.71%)																

14 - Was this course in your major?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	4	66.67%												
No		(2)	2	33.33%												
0 25 50 100																
Response Rate																
6/7 (85.71%)																

15 - Was this course team-taught?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	0	0.00%												
No		(2)	6	100.00%												
0 25 50 100																
Response Rate																
6/7 (85.71%)																

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%		4.00				3.42			3.31		3.23	
Dissatisfied		(2)	0	0.00%												
Satisfied		(3)	0	0.00%												
Very Satisfied		(4)	6	100.00%												
0 25 50 100																
Response Rate		Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
6/7 (85.71%)		4.00	0.00	4.00	65109	3.42	0.66	3.00	14401	3.31	0.70	3.00	2457	3.23	0.61	3.00

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

Jens Oberheide

Response Rate	6/7 (85.71%)
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- Dr. Oberheide had everything planned for the course, like when to teach which chapter and how to complete the whole course nicely within time. He graded every assignment in a very short time with feedback. He pointed out where I did wrong and what I should review.
- Dr. Oberheide is without a doubt a brilliant man who truly understands the topics he teaches. He clearly demonstrates a mastery of both advanced mathematics and abstract theoretical physics to his students, which warrants the respect of all in his class. His traditional teaching style is helpful for those committed enough to engage in lecture and attend office hours or write emails outside of class. I personally wrote Dr. Oberheide an email when I was struggling with a homework assignment at around 11:30PM on a Saturday night, not expecting a response until Monday morning. I was incredibly surprised when I had a response waiting in my inbox ten minutes later. His dedication to teaching and learning is commendable.
- The traditional way of teaching. Doing math on the board is helpful.
- A lot of assignments, which were very difficult and time consuming but ultimately helped me to learn a lot.
- Actually, Prof Oberheide is a perfect instructor for this course because he knows every detail and this helps the student to get the main idea and concept of the course.
- Dr. Oberheide is fantastic when it comes to instructing the class. I think when it comes to the course material taught, he does well picking out what is relevant to the course, and he does a good job explaining it to us at a level that is not too difficult, but at the same time not "dumbing it down" so the complexity is still there. I also appreciated his open-door policy when it came to asking questions in the class, and I felt like he was always very prompt when answering emails which I appreciated.

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

Jens Oberheide

Response Rate	6/7 (85.71%)
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- Dr. Oberheide gives more work compared to other instructors. Doing more work is helping us somehow, I believe. So, I can't tell it is the weakness of the course.
- There are times during the semester when the difficulty of what is taught in lecture is heavily mismatched to the difficulty of the homework assignments provided. Granted, oftentimes this can be remedied by thorough review of the required textbook; however, there are times when reviewing notes and the textbook still leaves students at a loss for how to approach and solve specific homework problems.
- Sometimes, I found the homework was hard. Hard homework are good but that affects your grades. Sometimes, I felt I deserved more grades than I got in specific homework.
- I was in the graduate student section, the undergrads had many opportunities for extra credit. It would be nice if we had some opportunities as well, especially since our scores are compared to theirs on Canvas. I practice exam for the final would also be helpful.
- The only thing to worry about is your grade because you should put so much effort into assignments to stay at A level. It is not the weakness of Prof. Oberheide, though. He is a professional.
- Dr. Oberheide held us all to high standards, which in some ways is appreciated because it makes us work harder and it made me feel like I did a job well done when I got a good grade, but sometimes I feel like we were graded rather harshly. There were times when I felt that I had understood a concept, however I was marked down for the smallest of things, and it eventually made me feel anxious turning things in for the course not knowing whether or not my performance on an assignment was good enough. I understand as a professor you need to hold your students accountable for the mistakes they make, however it sometimes felt like even if I showed competency in a skill it wasn't enough to get a good grade. I eventually understood the standard that he was looking for at the end of the year and my grades improved then, but at that point the damage had already been done to my grade. I just wish there had been a bit more wiggle room for forgiveness when it came to these mistakes, if that were the case I feel like I may have had a better experience overall in the class.

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

Response Rate	4/7 (57.14%)
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- Dr. Oberheide's teaching method is good enough for me.
- I believe it would be helpful to students if a set of mathematical preliminary review handouts were provided at the beginning of the course, likely via canvas and strictly for individual review so as to not detract from the immense material covered over the course of the semester. For students who have not taken a conventional mathematics course in over a year, some of the equation derivations can be incredibly dense and confusing.
- Doing the math on the board was helpful. The idea of the assignment of the note is good.
- I really feel like he was a strong instructor, his classes were very well taught, as mentioned before though I wish that we had a little more forgiveness when it came to our grades.

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

Jens Oberheide

Response Rate	6/7 (85.71%)
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- Yes. This course was really informative and we covered a lot of things in the class. I think this will be a big help for understanding the upper level thermodynamics.
- I would undoubtedly recommend Dr. Oberheide to anybody that is passionate about physics. In my experience within the physics department, his mastery of the course material is unparalleled by other professors.
- Yes, because I don't have any complaints.
- Yes, difficult course but I learned a lot.
- For grad students: If you want to learn the Stat Mech and Thermodynamic deeply, this course is super helpful, but there is no guarantee of the final grades! LOL
- Yes, although the class was tough, I think overall Dr. Oberheide was a good professor who taught the source material well. If you are looking for a class to truly understand thermodynamics and statistical mechanics, this is the course to take.

Mean of Means Calculations	Mean	University	College	Department
Overall Average	4.72	4.23	4.05	3.98