

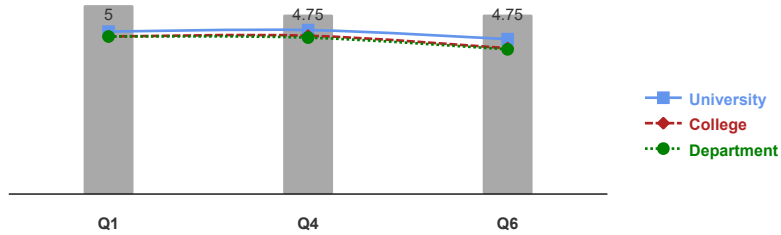
Clemson University

202208 Fall 2022 Evaluations

Course: PHYS-8250-001: Atmospheric Dynamics: 202208-PHYS-8250-001-90527-Oberheide
Instructor: Jens Oberheide *
Response Rate: 4/6 (66.67 %)

At A Glance:Communication

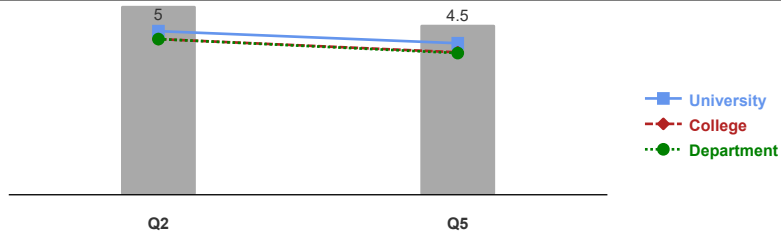
Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree
N/A - Did not have this instructor



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

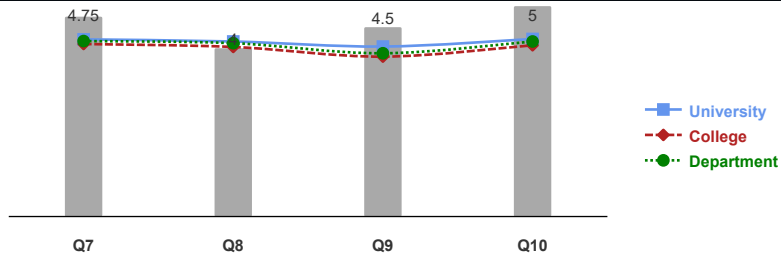
Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree
N/A - Did not have this instructor



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)

Clemson University
202208 Fall 2022 Evaluations

Course: PHYS-8250-001: Atmospheric Dynamics: 202208-PHYS-8250-001-90527-Oberheide
Instructor: Jens Oberheide *
Response Rate: 4/6 (66.67 %)

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%					5.00		4.30		4.17		4.17	
Disagree		(2)	0	0.00%												
Neutral		(3)	0	0.00%												
Agree		(4)	0	0.00%												
Strongly Agree		(5)	4	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	
4/6 (66.67%)	5.00	0.00	5.00	77780	4.30	0.96	5.00	19449	4.17	1.04	4.00	2194	4.17	0.92	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		4.33		4.12		4.12	
Disagree		(2)	0	0.00%												
Neutral		(3)	0	0.00%												
Agree		(4)	0	0.00%												
Strongly Agree		(5)	3	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	
3/6 (50.00%)	5.00	0.00	5.00	77672	4.33	0.93	5.00	19418	4.12	1.05	4.00	2192	4.12	0.94	4.00	

3 - The course was well-organized.																
Jens Oberheide																
Response Option		Weight	Frequency	Percent	Percent Responses				Means							
Strongly Disagree		(1)	0	0.00%					5.00		4.15		4.06		4.11	
Disagree		(2)	0	0.00%												
Neutral		(3)	0	0.00%												
Agree		(4)	0	0.00%												
Strongly Agree		(5)	4	100.00%	██████████											
					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	
4/6 (66.67%)	5.00	0.00	5.00	77545	4.15	1.01	4.00	19384	4.06	1.05	4.00	2179	4.11	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%					4.75		4.34		4.19		4.14	
Disagree		(2)	0	0.00%												
Neutral		(3)	0	0.00%												
Agree		(4)	1	25.00%	████											
Strongly Agree		(5)	3	75.00%	██████████											
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	
4/6 (66.67%)	4.75	0.50	5.00	77649	4.34	0.95	5.00	19419	4.19	1.04	5.00	2195	4.14	0.98	4.00	

Clemson University
202208 Fall 2022 Evaluations

Course: PHYS-8250-001: Atmospheric Dynamics: 202208-PHYS-8250-001-90527-Oberheide
Instructor: Jens Oberheide *
Response Rate: 4/6 (66.67 %)

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%		4.50					4.01			3.77		3.75	
Disagree		(2)	0	0.00%													
Neutral		(3)	1	25.00%	█												
Agree		(4)	0	0.00%													
Strongly Agree		(5)	3	75.00%	██████████												
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		
4/6 (66.67%)	4.50	1.00	5.00	77665	4.01	1.14	4.00	19430	3.77	1.25	4.00	2195	3.75	1.17	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%		4.75					4.10			3.86		3.83	
Disagree		(2)	0	0.00%													
Neutral		(3)	0	0.00%													
Agree		(4)	1	25.00%	█												
Strongly Agree		(5)	3	75.00%	██████████												
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		
4/6 (66.67%)	4.75	0.50	5.00	77630	4.10	1.10	4.00	19420	3.86	1.21	4.00	2195	3.83	1.15	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%		4.75					4.21			4.10		4.17	
Disagree		(2)	0	0.00%													
Neutral		(3)	0	0.00%													
Agree		(4)	1	25.00%	█												
Strongly Agree		(5)	3	75.00%	██████████												
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		
4/6 (66.67%)	4.75	0.50	5.00	77659	4.21	1.03	5.00	19428	4.10	1.09	4.00	2195	4.17	0.91	4.00		

Clemson University
202208 Fall 2022 Evaluations

Course: PHYS-8250-001: Atmospheric Dynamics: 202208-PHYS-8250-001-90527-Oberheide
Instructor: Jens Oberheide *
Response Rate: 4/6 (66.67 %)

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%			4.00	4.16	4.03	4.12	Question			University			College			Department		
Disagree	(2)	0	0.00%																		
Neutral	(3)	1	25.00%	█																	
Agree	(4)	2	50.00%	██																	
Strongly Agree	(5)	1	25.00%	█																	
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						
4/6 (66.67%)	4.00	0.82	4.00	77645	4.16	1.03	4.00	19422	4.03	1.11	4.00	2194	4.12	0.96	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%			4.50	4.04	3.80	3.88	Question			University			College			Department		
Disagree	(2)	0	0.00%																		
Neutral	(3)	1	25.00%	█																	
Agree	(4)	0	0.00%																		
Strongly Agree	(5)	3	75.00%	███																	
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						
4/6 (66.67%)	4.50	1.00	5.00	77624	4.04	1.09	4.00	19409	3.80	1.19	4.00	2197	3.88	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%			5.00	4.22	4.07	4.16	Question			University			College			Department		
Disagree	(2)	0	0.00%																		
Neutral	(3)	0	0.00%																		
Agree	(4)	0	0.00%																		
Strongly Agree	(5)	4	100.00%	████																	
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						
4/6 (66.67%)	5.00	0.00	5.00	77573	4.22	0.98	4.00	19413	4.07	1.06	4.00	2195	4.16	0.89	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%			4.75	3.25	3.55	3.41	Question			University			College			Department		
Less work in this course	(2)	0	0.00%																		
About the same	(3)	0	0.00%																		
More work in this course	(4)	1	25.00%	█																	
Much more work in this course	(5)	3	75.00%	███																	
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						
4/6 (66.67%)	4.75	0.50	5.00	77566	3.25	1.03	3.00	19399	3.55	1.01	4.00	2185	3.41	0.93	3.00						

Clemson University
202208 Fall 2022 Evaluations

Course: PHYS-8250-001: Atmospheric Dynamics: 202208-PHYS-8250-001-90527-Oberheide
Instructor: Jens Oberheide *
Response Rate: 4/6 (66.67 %)

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										
Somewhat easier than other courses		(2)	0	0.00%		3.15										
About the same		(3)	0	0.00%		3.55										
More difficult than other courses		(4)	2	50.00%		3.45										
Much more difficult than other courses		(5)	2	50.00%												
Not sure/New student at CU		(0)	0	0.00%												
<div style="display: flex; justify-content: space-between; width: 100%;"> 0 25 50 100 Question University College Department </div>																
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
4/6 (66.67%)	4.50	0.58	4.50	77645	3.15	1.13	3.00	19413	3.55	1.10	4.00	2184	3.45	0.98	3.00	

13 - Was this course required to graduate?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	4	100.00%												
No		(2)	0	0.00%												
<div style="display: flex; justify-content: space-between; width: 100%;"> 0 25 50 100 </div>																
Response Rate																
4/6 (66.67%)																

14 - Was this course in your major?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	4	100.00%												
No		(2)	0	0.00%												
<div style="display: flex; justify-content: space-between; width: 100%;"> 0 25 50 100 </div>																
Response Rate																
4/6 (66.67%)																

15 - Was this course team-taught?																
Response Option		Weight	Frequency	Percent	Percent Responses	Means										
Yes		(1)	0	0.00%												
No		(2)	4	100.00%												
<div style="display: flex; justify-content: space-between; width: 100%;"> 0 25 50 100 </div>																
Response Rate																
4/6 (66.67%)																

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										
Dissatisfied		(2)	0	0.00%		3.38										
Satisfied		(3)	0	0.00%		3.27										
Very Satisfied		(4)	3	100.00%		3.22										
<div style="display: flex; justify-content: space-between; width: 100%;"> 0 25 50 100 Question University College Department </div>																
Response Rate	Mean	STD	Median	University	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
3/6 (50.00%)	4.00	0.00	4.00	77199	3.38	0.67	3.00	19278	3.27	0.70	3.00	2163	3.22	0.59	3.00	

Clemson University
202208 Fall 2022 Evaluations

Course: PHYS-8250-001: Atmospheric Dynamics: 202208-PHYS-8250-001-90527-Oberheide
Instructor: Jens Oberheide *
Response Rate: 4/6 (66.67 %)

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

Jens Oberheide

Response Rate	4/6 (66.67%)
----------------------	--------------

- Overall the course was good and I feel that I learned a lot. The lessons which focused on plots and observational/model data were particularly helpful for me as I am a visual/hands on learner. Sometimes we might have gone a bit too in depth with the math for my test.
- Thorough understanding of the subject and an ability to convey relevance of topics
- Overall, I thought this course was taught extremely well. The homeworks were a great extension of the class material and allowed us to apply what we learned in class.
- Simply put, there is no other professor that should be teaching this course. I have taken courses with other atmospheric faculty members and enjoyed this course the most by far. Regardless of qualification (although he is the most qualified I would think), Professor Oberheide combines the perfect level of rigor with a true graduate-level teaching methodology which should be the standard for courses as critical as Atmospheric Dynamics. Rarely in my graduate career have I felt that missing an in-person lecture would be detrimental to my ability to master the course material as I have found that most professors don't substantially deviate from the provided textbook. This course was a pleasant exception to this; Professor Oberheide's lectures guided you through the text (not verbatim which I appreciated) and the extra material he provided was not only relevant but probed a deeper understanding of the material. In summary, Professor Oberheide's strengths are being a fantastic lecturer, a thorough grader, and a top-tier course instructor who combines a clear mastery of the material with supplementary resources to ensure his students know the subject and how to use it. Atmospheric Dynamics is undeniably one of (if not the most) critical courses for atmospheric graduate students. In my opinion, even the subsection of atmospheric scientists that study auroral precipitation and plasma-related parameters should take this course. The fundamental concepts covered in this course lay the groundwork for the vast majority of atmospheric research topics or at the very least have some relevance.

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

Jens Oberheide

Response Rate	2/6 (33.33%)
----------------------	--------------

- If I could change one thing about this course I would use Holton as the main textbook instead of Lindzen. I thought Holton explained the concepts in an easier to understand way than Lindzen.
- My only real weakness is the duration of the course. Although there is a related tides and waves course offered, I think this class could easily be two semesters long. This would allow for expansion on some of the more critical topics every atmospheric scientist should be familiar with and give more opportunities to relate lecture material to real-world examples. The other minor weakness was the book selection. Lindzen's text, while fantastic, feels a little like the atmospheric dynamics version of the electromagnetic textbook by Fulvio Melia. Fantastic resource once you're already deeply familiar with the subject matter, but maybe not the most thorough text for an introduction to some topics. I found myself finding other resources for a lot of topics (which may be by design).

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

Response Rate	4/6 (66.67%)
----------------------	--------------

- I think Holton would be a better textbook than the Lindzen notes. It presents the material in a clearer way and there is much more detail in that book. This class was also very time consuming at times, which occasionally made it difficult to balance productive research with the coursework (and TAing, of course) It could be helpful to all students to include some homework problems/projects that are based on research concepts (maybe using model or observational data to study some of the things we see in class)
- The homework assigned was very helpful in furthering subject understanding. Following a more comprehensive textbook like Holton would have been useful.
- I really enjoyed when Dr. Oberheide would show papers during lecture and explain all the relevant figures to our work. It was extremely helpful to see real world examples of what were were learning in class.
- Perhaps my favorite thing about this course was that publications were provided at multiple steps along the way to see the material being utilized for actual research purposes. It's one thing to learn something in a lecture and be able to answer a question on a test, but it's entirely different to apply it to an actual science question/research topic.

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

Jens Oberheide

Response Rate	4/6 (66.67%)
----------------------	--------------

- Yes. A lot of work, but you will definitely learn the material.
- Yes, an excellent instructor
- Yes I would. This class was a lot of work but extremely beneficial.
- Absolutely. I thought Professor Oberheide was one of the best lecturers I've had to date and his thoroughness in grading assignments/exams was by far the best I have come across. He is flexible when the situation calls for it which I also greatly appreciated. I'm really not sure what more you could expect from a professor.

Mean of Means Calculations	Mean	University	College	Department
Overall Average	4.69	4.19	4.01	4.04