

**JHU - Krieger School of Arts & Sciences / Whiting School of Engineering**  
**ASEN.2020.Spring**

**Course:** AS.270.224.01.SP20: Oceans & Atmospheres  
**Instructor:** Darryn Waugh \*  
**Response Rate:** 22/25 (88.00 %)

1 - The overall quality of this course is:					
Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	0	0.00%		
Weak	(2)	0	0.00%		
Satisfactory	(3)	2	9.09%	█	
Good	(4)	14	63.64%	██████████	
Excellent	(5)	6	27.27%	████	
N/A	(0)	0	0.00%		
				0 25 50 100	Question
<b>Response Rate</b>			<b>Mean</b>	<b>STD</b>	<b>Median</b>
22/25 (88.00%)			4.18	0.59	4.00

2 - The instructor's teaching effectiveness is:					
Darryn Waugh					
Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	0	0.00%		
Weak	(2)	0	0.00%		
Satisfactory	(3)	6	27.27%	████	
Good	(4)	9	40.91%	██████████	
Excellent	(5)	7	31.82%	██████	
N/A	(0)	0	0.00%		
				0 25 50 100	Question
<b>Response Rate</b>			<b>Mean</b>	<b>STD</b>	<b>Median</b>
22/25 (88.00%)			4.05	0.79	4.00

3 - The intellectual challenge of this course is:					
Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	0	0.00%		
Weak	(2)	1	4.76%	█	
Satisfactory	(3)	3	14.29%	████	
Good	(4)	12	57.14%	██████████	
Excellent	(5)	5	23.81%	████	
N/A	(0)	0	0.00%		
				0 25 50 100	Question
<b>Response Rate</b>			<b>Mean</b>	<b>STD</b>	<b>Median</b>
21/25 (84.00%)			4.00	0.77	4.00

4 - The teaching assistant for this course is:					
Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	0	0.00%		
Weak	(2)	1	4.76%	█	
Satisfactory	(3)	2	9.52%	████	
Good	(4)	3	14.29%	████	
Excellent	(5)	15	71.43%	██████████	
N/A	(0)	0	0.00%		
				0 25 50 100	Question
<b>Response Rate</b>			<b>Mean</b>	<b>STD</b>	<b>Median</b>
21/25 (84.00%)			4.52	0.87	5.00

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**5 - Please enter the name of the TA you evaluated in question 4:**

Response Rate	20/25 (80%)
<ul style="list-style-type: none"> <li>• Ali Siddiqui</li> <li>• Ali Hasan Siddiqui</li> <li>• Ali Hasan Siddiqui</li> <li>• Ali</li> <li>• Ali Siddiqui</li> <li>• Ali</li> <li>• Ali</li> <li>• Ali</li> <li>• Ali Siddiqui</li> <li>• Ali</li> <li>• idk</li> <li>• Ali Siddiqui</li> <li>• Ali Hasan Siddiqui</li> <li>• Ali</li> <li>• .</li> <li>• Ali</li> <li>• Ali Hasan Saddiqui</li> <li>• Ali Siddiqui</li> <li>• Ali Siddiqui</li> <li>• Ali Siddiqui</li> </ul>	

**6 - Feedback on my work for this course is useful:**

Response Option	Weight	Frequency	Percent	Percent Responses	Means			
Disagree strongly	(1)	0	0.00%			4.20		
Disagree somewhat	(2)	1	5.00%	█				
Neither agree nor disagree	(3)	3	15.00%	█				
Agree somewhat	(4)	7	35.00%	█				
Agree strongly	(5)	9	45.00%	█				
N/A	(0)	0	0.00%					
				0 25 50 100	Question			
<b>Response Rate</b>				<b>Mean</b>	<b>STD</b>	<b>Median</b>		
20/25 (80.00%)				4.20	0.89	4.00		

**7 - Compared to other Hopkins courses at this level, the workload for this course is:**

Response Option	Weight	Frequency	Percent	Percent Responses	Means			
Much lighter	(1)	0	0.00%			3.05		
Somewhat lighter	(2)	3	15.00%	█				
Typical	(3)	14	70.00%	█				
Somewhat heavier	(4)	2	10.00%	█				
Much heavier	(5)	1	5.00%	█				
N/A	(0)	0	0.00%					
				0 25 50 100	Question			
<b>Response Rate</b>				<b>Mean</b>	<b>STD</b>	<b>Median</b>		
20/25 (80.00%)				3.05	0.69	3.00		

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### 8 - What are the best aspects of this course?

Response Rate	18/25 (72%)
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- Really interesting class, Ali was a fantastic TA. The homeworks were pretty difficult but Ali was extremely helpful. I liked the demonstrations done in class as well as the variety of topics taught.
- Learn a widespread variety of things about the world and it's oceans and atmospheres
- The best aspects of this course include being able to explore concepts about oceans and climate change with both a quantitative and qualitative approach.
- The TA. Incredibly passionate about his work and can explain concepts incredibly well
- Everything, I loved it.
- Interesting material. Ali was really great.
- It covers both the quantitative and qualitative aspects of the Oceans and Atmosphere and everything is tied together very well. The class is straightforward, sensible, and a joy to take. There is an emphasis on learning and processing the material, not simply memorizing facts.
- The professor did a very good job of switching the course online. I found that switching the format of the class from 2 exams to weekly homework worked really well. It kept me from getting too stressed about studying for an exam during an already extremely stressful time and it forced me to keep up with class material. I only wish that my other classes implemented something similar.
- Relevant topics, great application of previous courses
- They bring in devices to demonstrate the concepts we learn in class, which really helps to illustrate what's actually going on because the contents of the class usually discuss things in the scale of millions or billions.
- Interesting material and homework problems.
- .
- learning interesting information about the earth
- It's interesting material and all the lectures are posted online and easy to access. Professor Waugh is always willing to talk to you and help.
- N/A
- The best aspects of this course were learning about a broad range of topics and learning how the natural world works and operates.
- The material and lectures are super interesting and the professor is never boring. TA was super helpful and patient.
- - cool graphs!!!! - interesting content

### 9 - What are the worst aspects of this course?

Response Rate	17/25 (68%)
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- Nothing.
- Before the test got removed because of corona, the test looked to be much harder than previously expected from lectures and homeworks
- Sometimes some concepts such as Coriolis affect were difficult to follow and it would have helped if more emphasis were put on them. Lecture slides are also not extremely detailed.
- The heavy math application side of the homework
- Not enough class!
- Lectures could be more effective.
- Not enough time to learn more.
- NA
- The lectures went by really slowly.
- the mathematical aspects of the course are not properly fleshed out. the math is left vague. homework problems are also often extremely vague in their requirements and students are basically required to ask the professor for clarification or else the problems are unsolvable.
- .
- slow pace, hard to maintain attention throughout duration of class
- Some of the in class examples were confusing and there are no backtests or practice questions provided so its very unclear as for what to expect for the tests.
- N/A
- I enjoyed this course, there were no worst aspects.
- There was a LOT of material and quite a bit of memorization required. The homeworks are a bit hard and grading is strict.
- -occasionally dry - lots of lecturing - hard to stay motivated to understand without weekly assignments

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### 10 - What would most improve this class?

Response Rate	16/25 (64%)
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- Nothing that I can think of at the moment.
- More clarity on what the test material would entail
- I really enjoyed being able to rewatch lectures once we went remote because it helped me to gain a better understanding of the material, especially for tougher mathematical concepts.
- To make the material more concept based than mathematical
- Keep it the same!
- I can't think of anything.
- More guidance on math questions
- A little more classwork.
- more rigorous math, starting from basic physics/transport equations and showing how they develop into the equations used for studying oceans and atmospheres. clear homework problems with all assumptions and constants stated.
- .
- a more engaging style of teaching
- Supply backtests
- N/A
- To improve this class, I would have the professor perform more experiments and demonstrations to visually supplement the learning material.
- Less nit-picky grading on homeworks. Better breakdown of complex topics.
- - maybe introduce group projects - weekly homework, less pressure for tests

### 11 - What should prospective students know about this course before enrolling? (You may comment on any aspect of this course such as assumed background, readings, grading systems, and so on.)

Response Rate	16/25 (64%)
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- While there aren't official prerequisites, I think it would have been pretty difficult to understand the course content without having a calculus and physics background. The course has recommended readings but as long as you attend class and go to office hours as needed, you don't really need to purchase the reading material.
- Things get pretty tough, pretty quick. Put on your worker's hat
- This class does require you to be well versed in mathematics, and it will challenge you at times. It is not memorization based at all.
- It is a mathematical based course within the oceans and atmospheres area
- This class is great!
- Paying attention in class is vital to success. It is helpful to have taken Calculus II, and more helpful to have taken or concurrently take Calculus III.
- This is a great course
- If they ever took earth science in middle or high school, this is kind of like that but much harder and includes the math behind many of the concepts as well.
- ask the prof if you have questions on the homework.
- .
- you get out of this course what you put in - treat it seriously and you will excel. If you treat it as a joke class, your grade will reflect that.
- It's requires more math/physics than one might think but it is a very interesting course.
- N/A
- You will learn a lot about the natural world and how it operates. The course is very interesting if you enjoy learning about why things are the way they are and how they work.
- Background in calculus, physics and chemistry will help a lot. You don't really need the textbooks. Go to lecture-- otherwise you won't understand. Grading system for homework is strict. Homework can be a little hard, so start it early. TA office hours are SO helpful.
- probably more math-heavy than you are expecting