



Spring 2021 Engineering Instructor Report for SP2021.T17.JME.3700.01 - Fluid Mechanics (Michael Wendl)

Project Title: **Spring 2021 Course Evaluations - Danforth Campus**

Courses Audience: **36**

Responses Received: **12**

Response Ratio: **33.33%**

Report Comments

Welcome to your Instructor Report for WashU Course Evaluations. Below you will find response data from the specified course section. Responses to personalized questions appear at the bottom of the report.

The intention of this report is to provide feedback, and also to prompt improvement in areas that may be lacking. This report is accessible to appropriate department level and school level users, as determined by your school. We appreciate your dedication to our learning community at Washington University.

If you have questions about this report, please contact evals@wustl.edu

Creation Date: **Wednesday, May 19, 2021**

Course Administration

Was a course syllabus or a course information sheet distributed or available online?

Was a course syllabus or a course information sheet distributed or available online?			
Options	Count	Percentage	
Yes	12	100.00%	
No	0	0.00%	

Did the syllabus explain the content and administration of the course (e.g., office hours, grading)?

Did the syllabus explain the content and administration of the course (e.g., office hours, grading)?			
Options	Count	Percentage	
Yes	12	100.00%	
No	0	0.00%	

Early in the semester, did your professor explain the expectations for academic integrity?

Early in the semester, did your professor explain the expectations for academic integrity?			
Options	Count	Percentage	
Yes	12	100.00%	
No	0	0.00%	

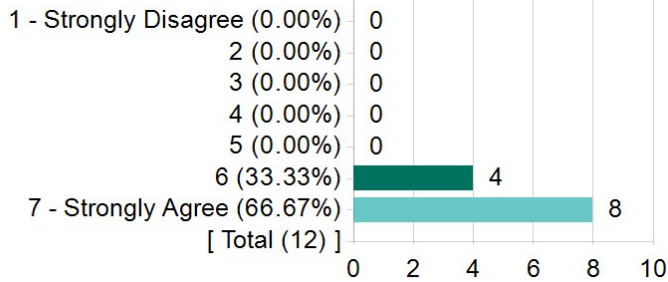
Meeting schedules, assignment due dates, and course expectations were clear.

Meeting schedules, assignment due dates, and course expectations were clear.			
Options	Count	Percentage	
1 - Strongly Disagree	1	8.33%	
2	0	0.00%	
3	0	0.00%	
4	0	0.00%	
5	0	0.00%	
6	6	50.00%	
7 - Strongly Agree	5	41.67%	

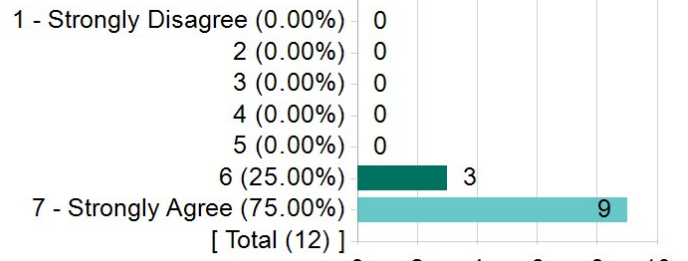
Rating Scale Responses

Question	Response Count	Subject		
		Mean	Standard Deviation	Median
In retrospect, the syllabus was an accurate reflection of how the course was actually taught.	12	6.67	0.49	7.00
The course matched the course catalog description.	12	6.75	0.45	7.00

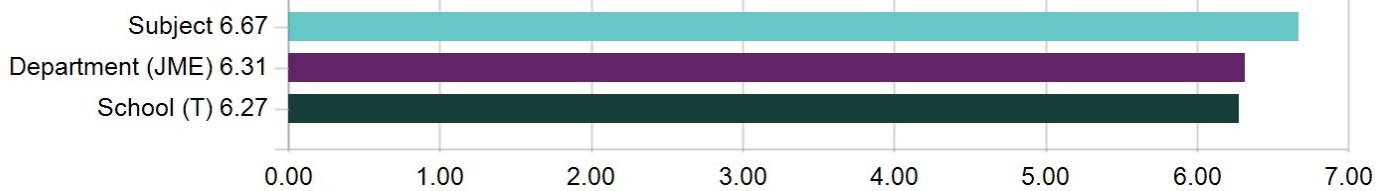
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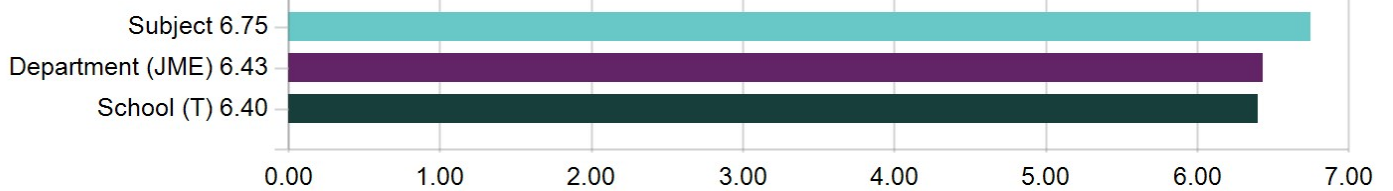
2. The course matched the course catalog description.



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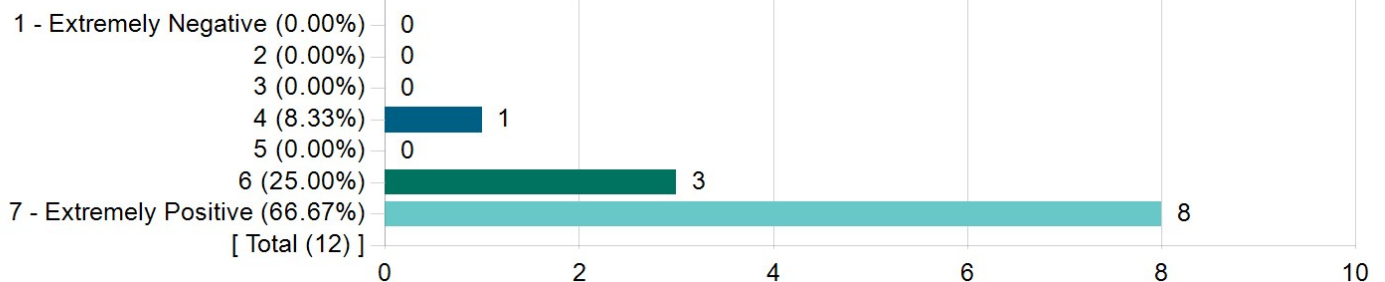


2. The course matched the course catalog description.

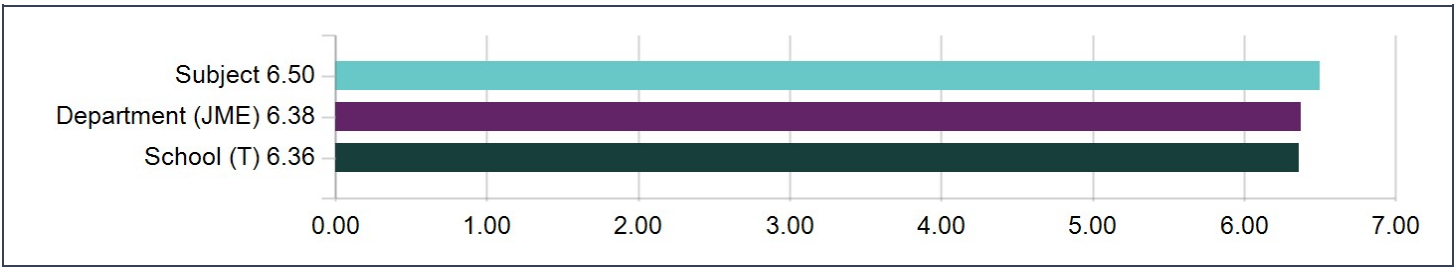


Please rate how well **Michael Wendl** promoted an inclusive learning environment with regard to the diversity of student personal backgrounds and identities.

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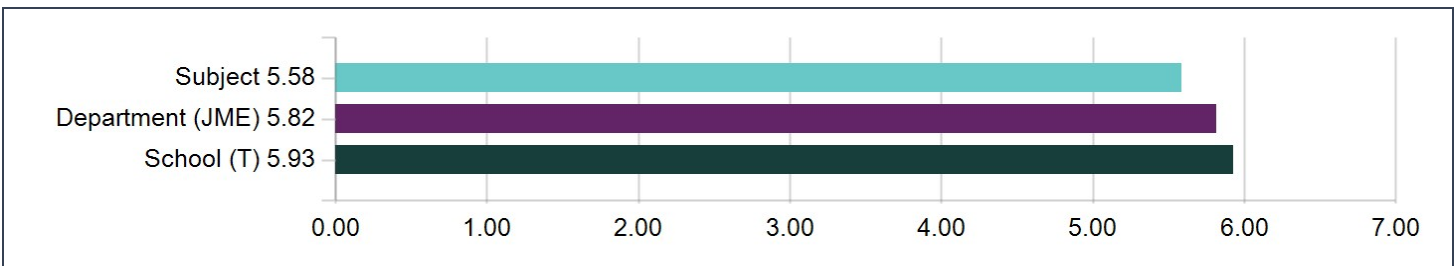
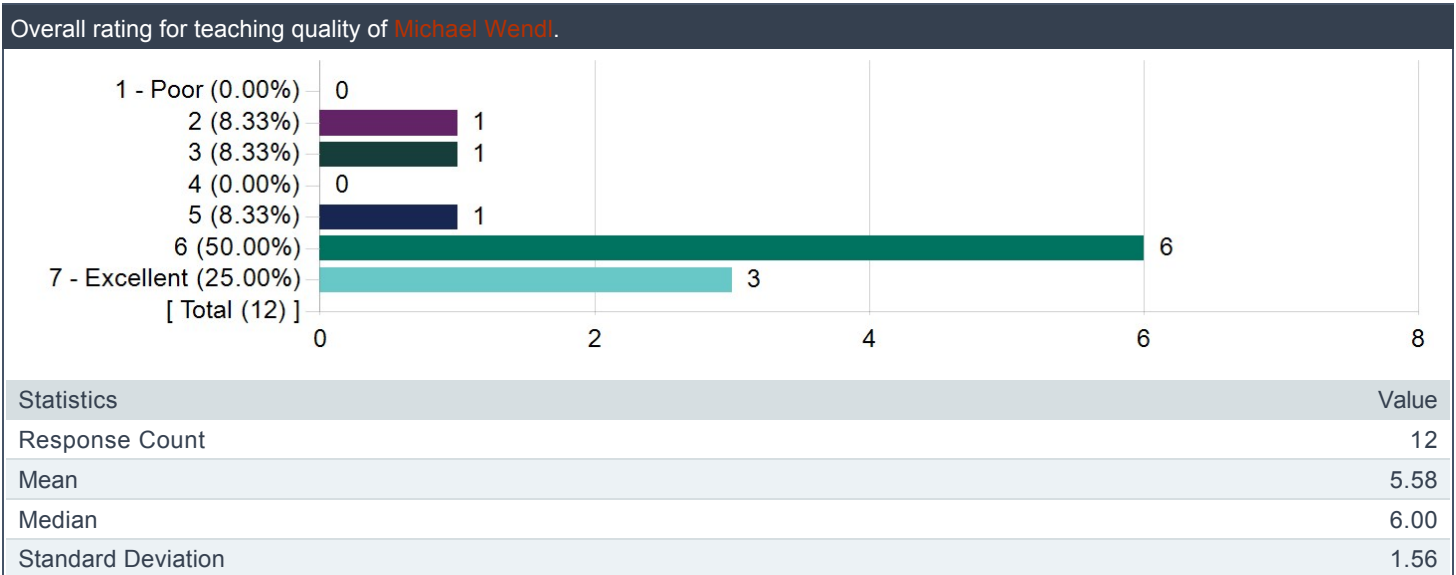


Statistics	Value
Response Count	12
Mean	6.50
Median	7.00
Standard Deviation	0.90



Instructor Evaluation

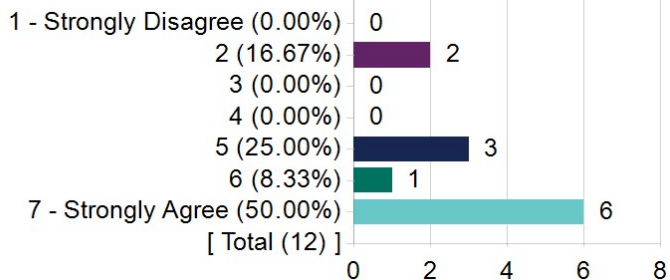
Overall rating for teaching quality of **Michael Wendl**.



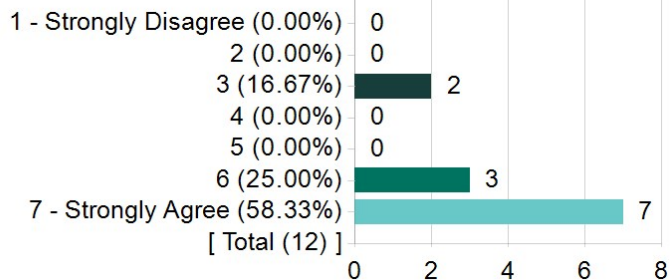
Rating Scale Responses for **Michael Wendl**

Question	Response Count	Subject		
		Mean	Standard Deviation	Median
The instructor made the course interesting.	12	5.58	1.88	6.50
The instructor was enthusiastic about the course.	12	6.08	1.51	7.00
The material was covered at a reasonable pace.	12	5.75	1.42	6.00
The instructor was available to answer questions (through office hours, email, etc.).	12	6.25	1.71	7.00
The instructor was well-organized and prepared for class.	12	5.67	1.87	6.50
The instructor explained the course material so that you could understand it.	12	5.08	2.11	6.00

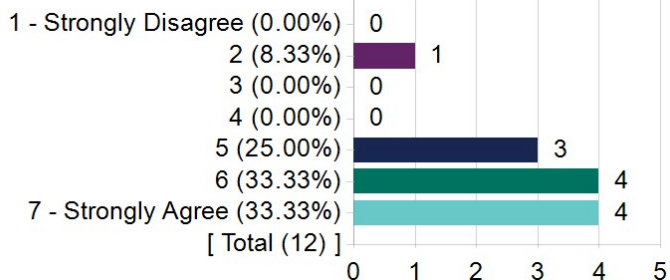
1. The instructor made the course interesting.



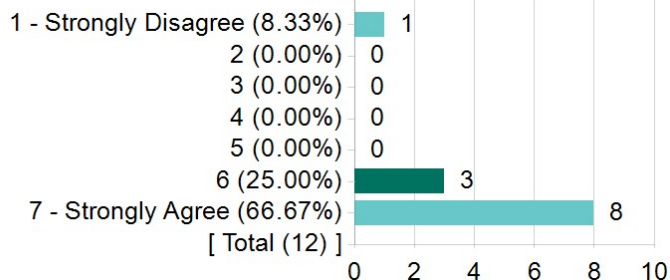
2. The instructor was enthusiastic about the course.



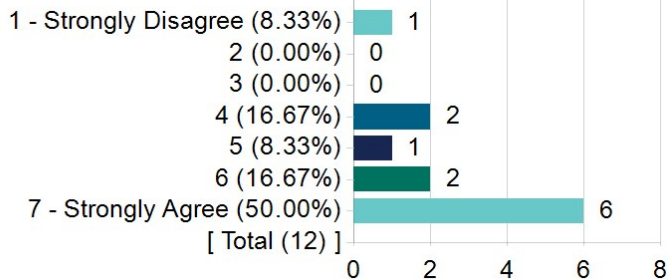
3. The material was covered at a reasonable pace.



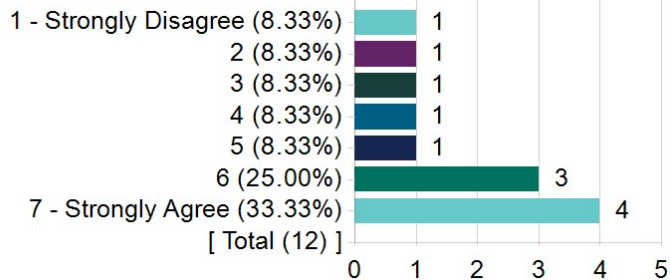
4. The instructor was available to answer questions (through office hours, email, etc.).



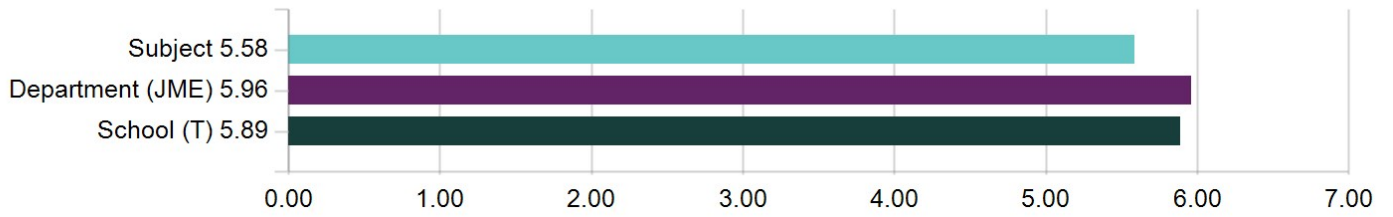
5. The instructor was well-organized and prepared for class.



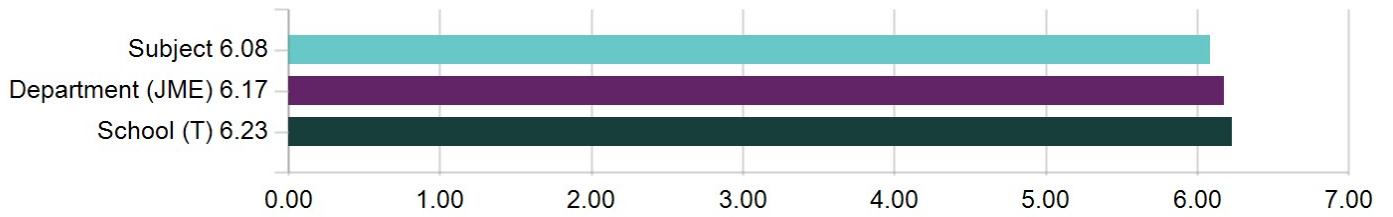
6. The instructor explained the course material so that you could understand it.



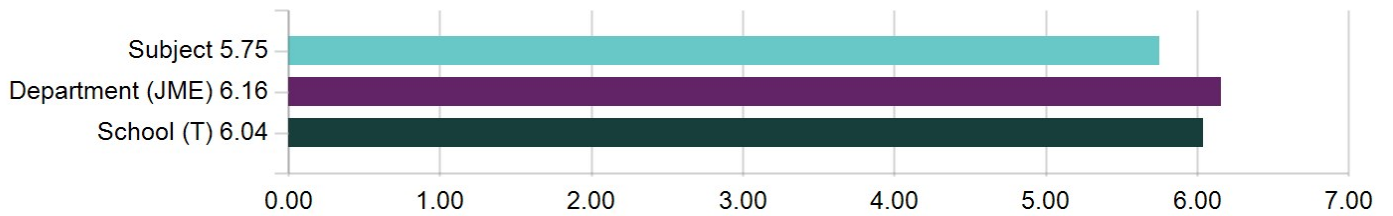
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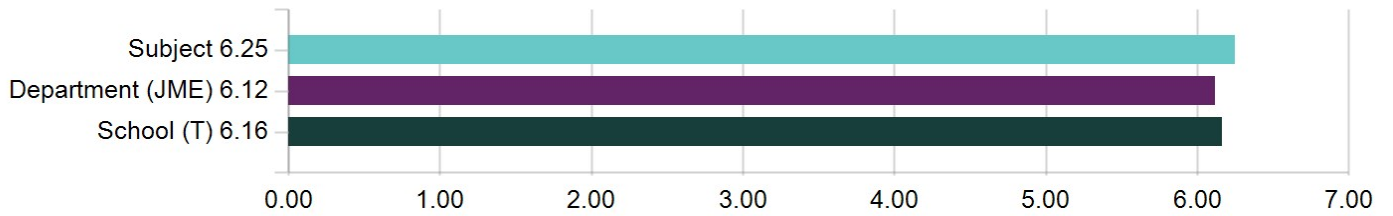
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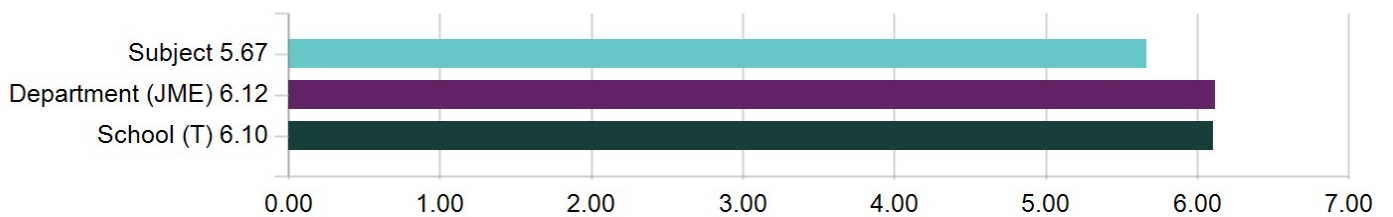
3. The material was covered at a reasonable pace.



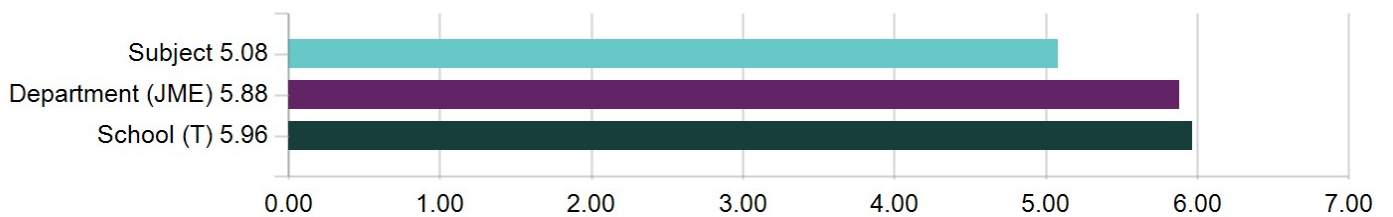
4. The instructor was available to answer questions (through office hours, email, etc.).



5. The instructor was well-organized and prepared for class.

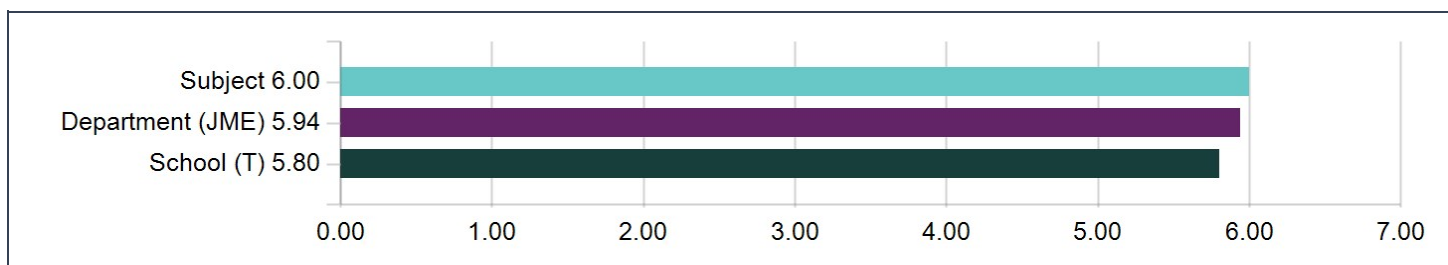
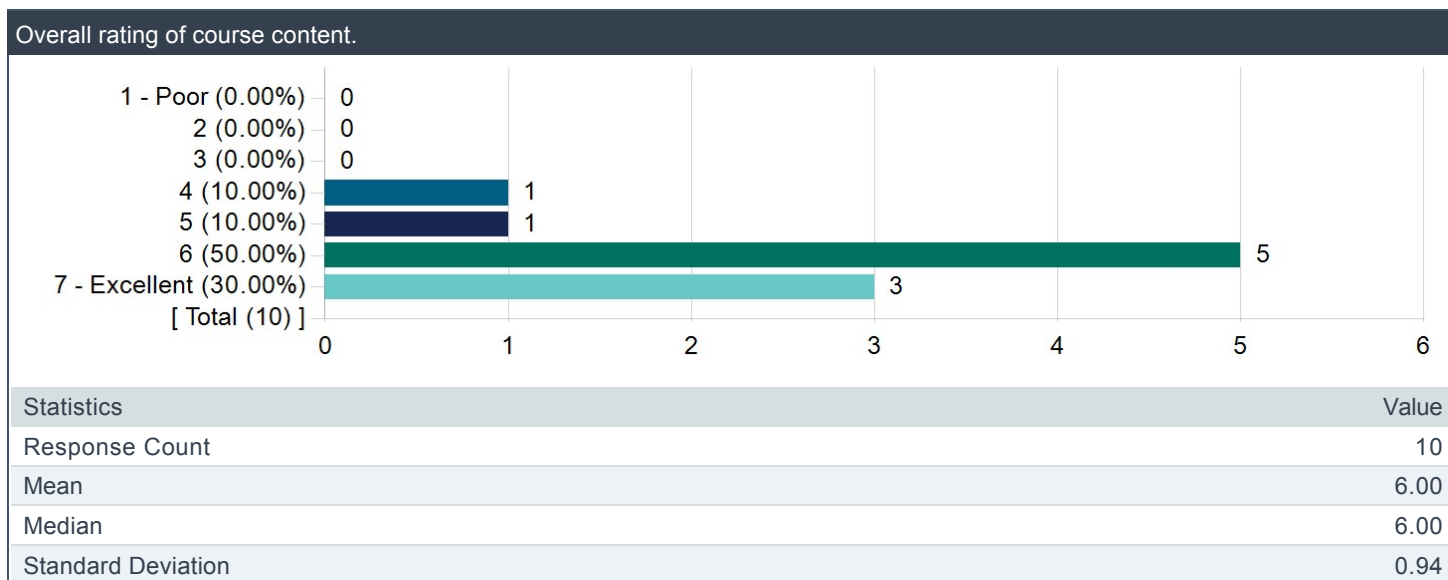


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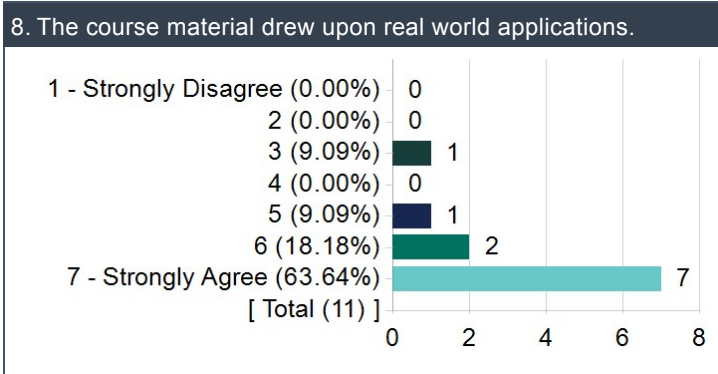
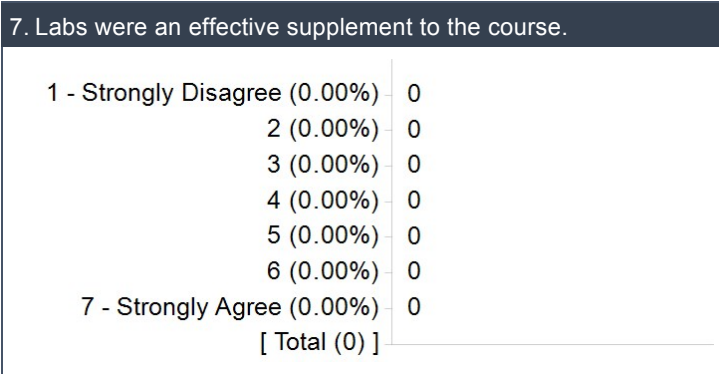
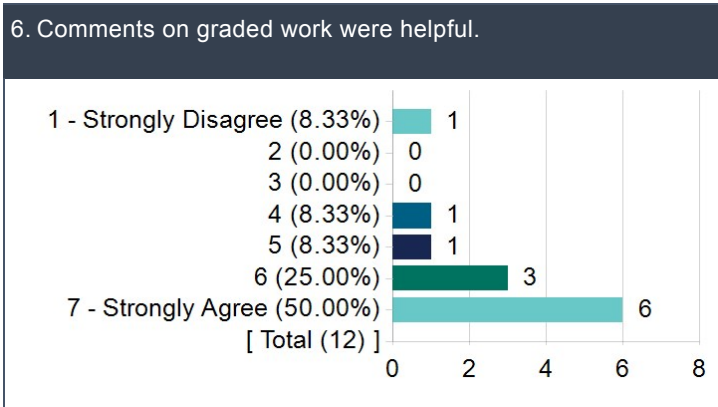
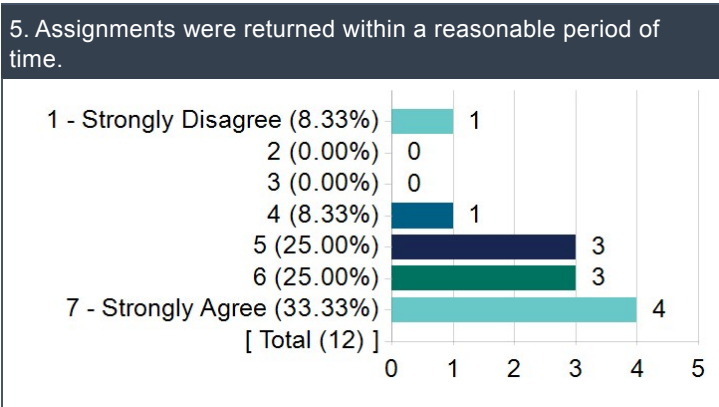
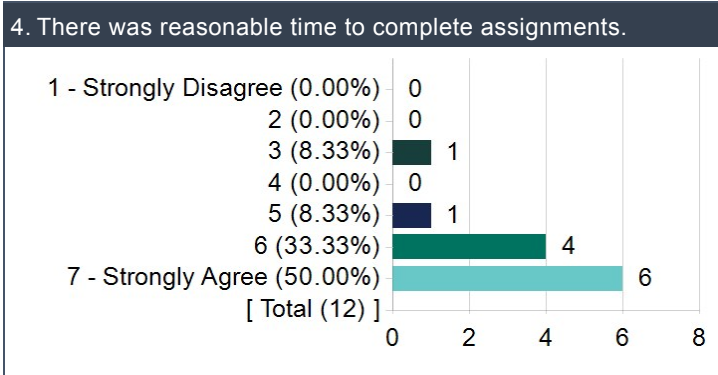
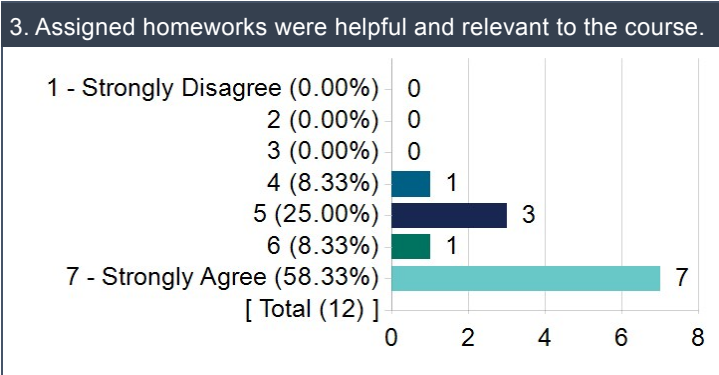
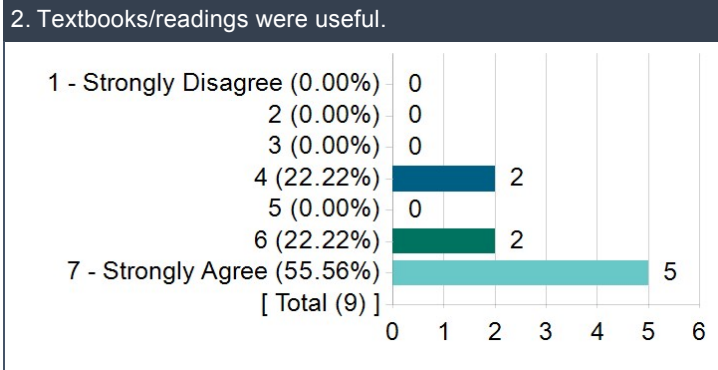
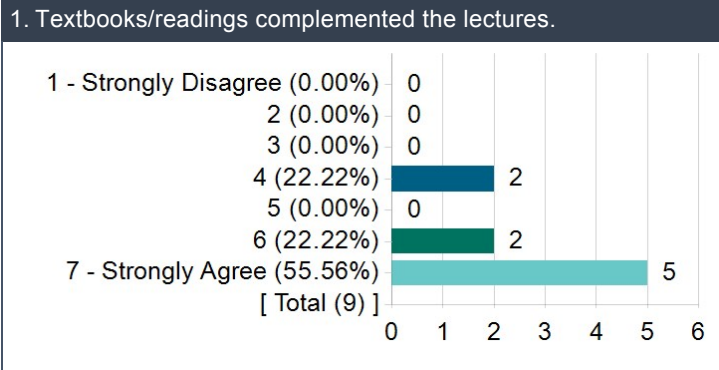
Course Materials and Assignments

Overall rating of course content.



Rating Scale Responses

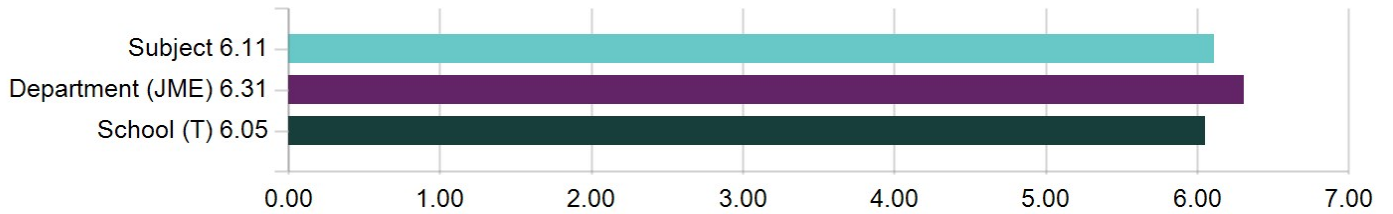
Question	Subject			
	Response Count	Mean	Standard Deviation	Median
Textbooks/readings complemented the lectures.	9	6.11	1.27	7.00
Textbooks/readings were useful.	9	6.11	1.27	7.00
Assigned homeworks were helpful and relevant to the course.	12	6.17	1.11	7.00
There was reasonable time to complete assignments.	12	6.17	1.19	6.50
Assignments were returned within a reasonable period of time.	12	5.50	1.73	6.00
Comments on graded work were helpful.	12	5.83	1.80	6.50
Labs were an effective supplement to the course.	0	N/A	N/A	N/A
The course material drew upon real world applications.	11	6.27	1.27	7.00



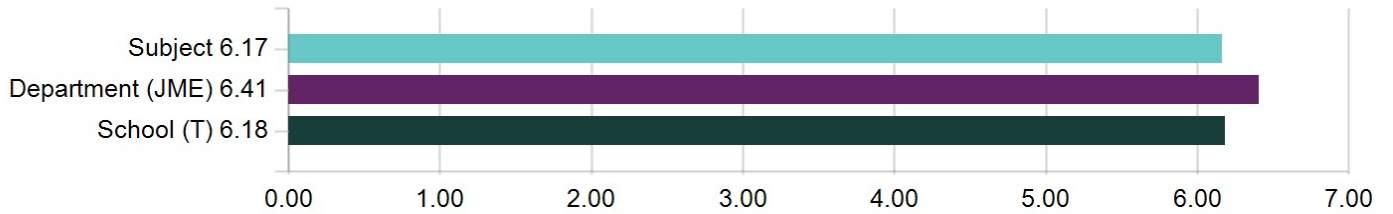
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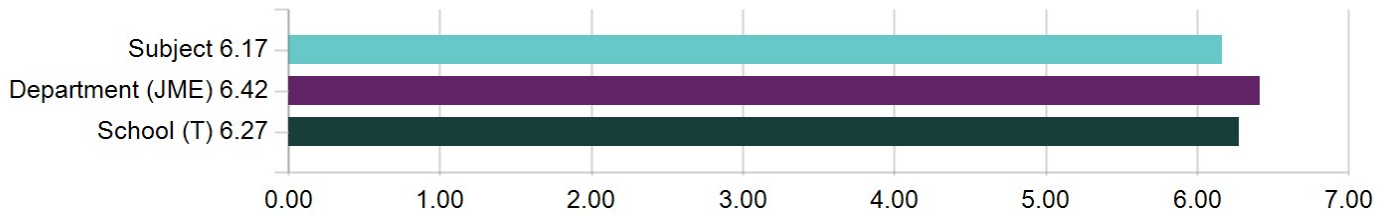
2. Textbooks/readings were useful.



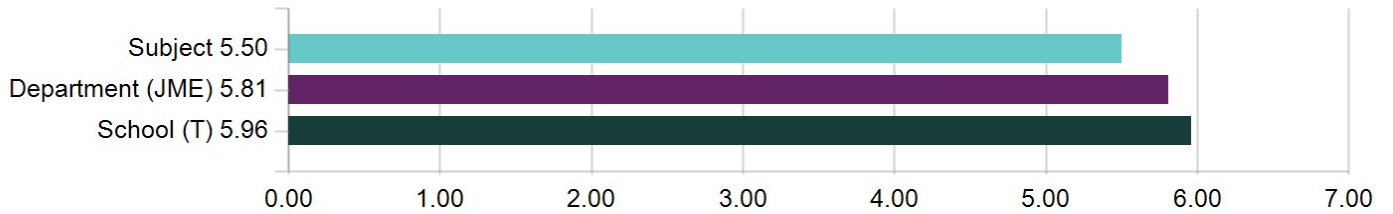
3. Assigned homeworks were helpful and relevant to the course.



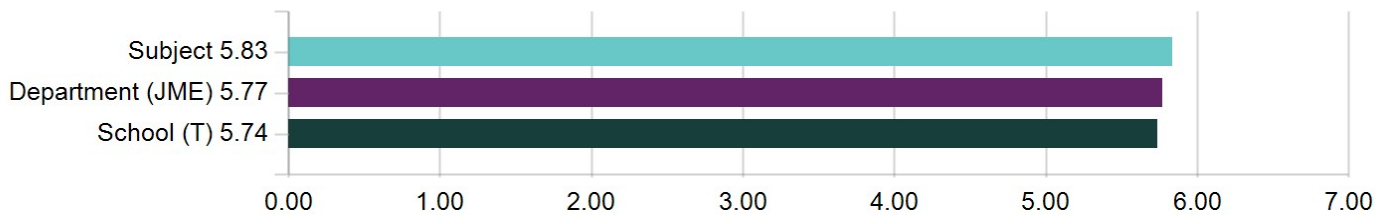
4. There was reasonable time to complete assignments.



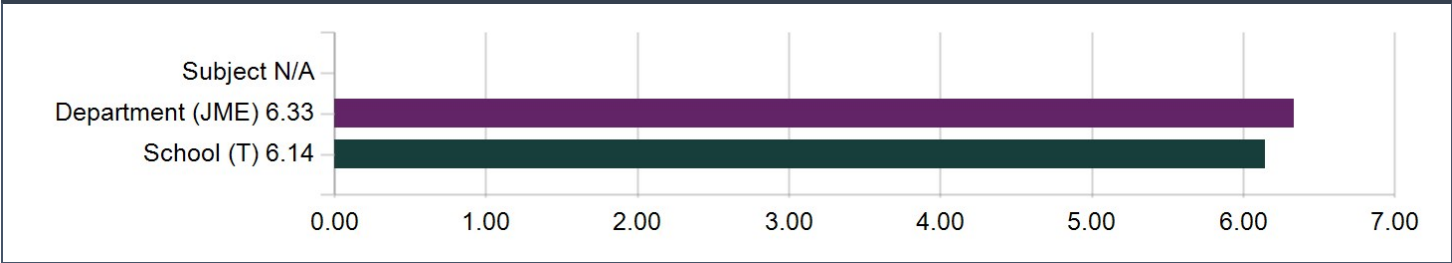
5. Assignments were returned within a reasonable period of time.



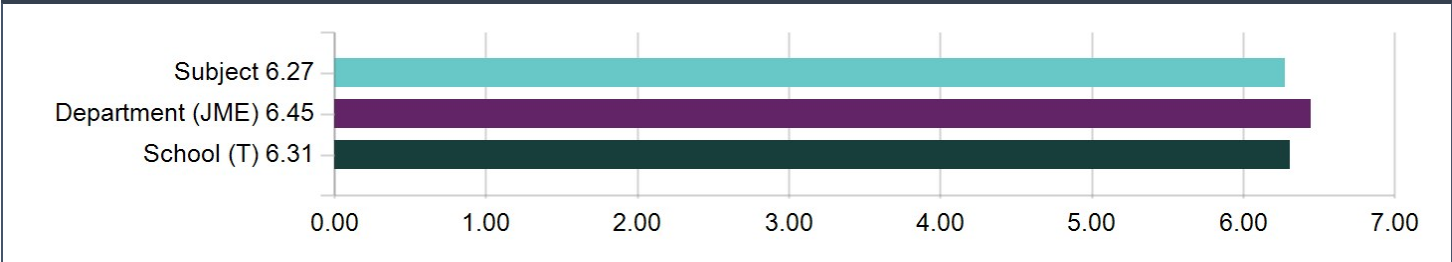
6. Comments on graded work were helpful.



7. Labs were an effective supplement to the course.



8. The course material drew upon real world applications.

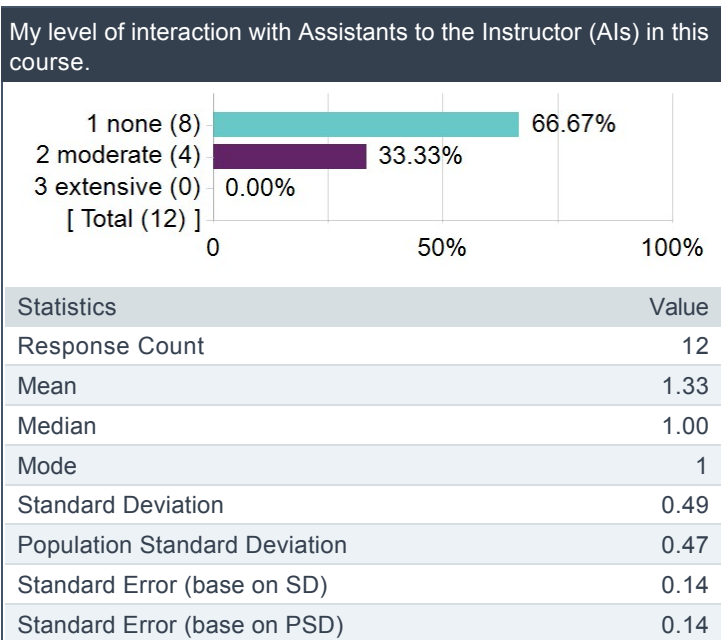


Please elaborate if you felt the textbooks/readings were not useful.

Comments
 Text explained problem solving in the most complicated way possible, glossing over critical details that made it very hard to follow examples.

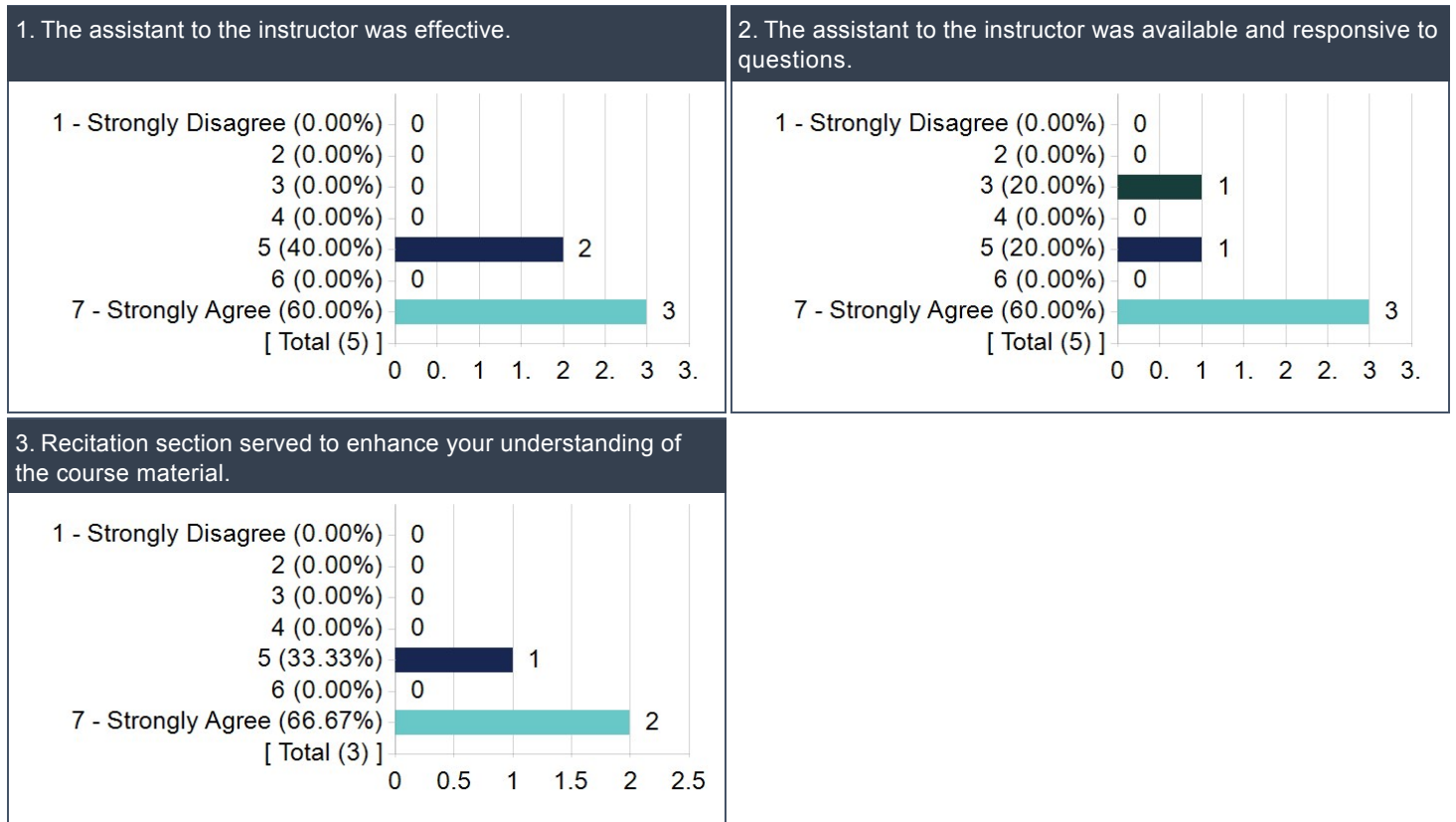
Assistant to the Instructor (AI) and Recitation

My level of interaction with Assistants to the Instructor (AIs) in this course.

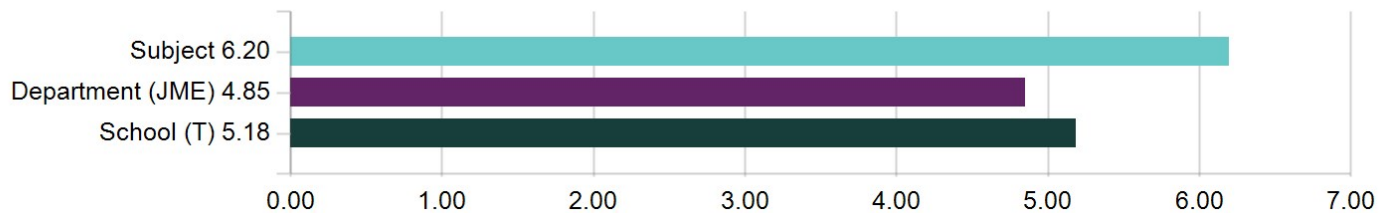


Rating Scale Responses

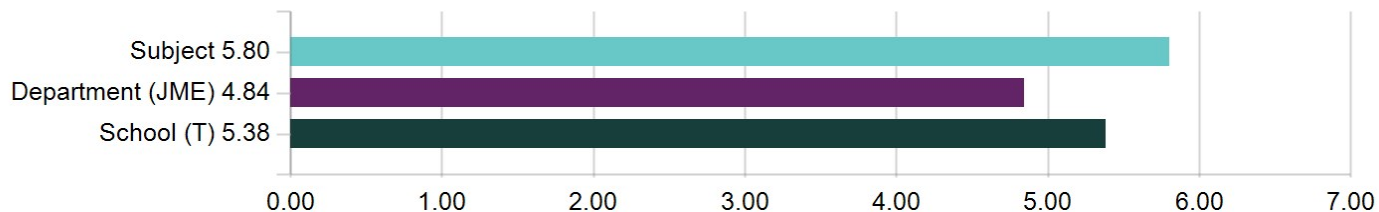
Question	Subject			
	Response Count	Mean	Standard Deviation	Median
The assistant to the instructor was effective.	5	6.20	1.10	7.00
The assistant to the instructor was available and responsive to questions.	5	5.80	1.79	7.00
Recitation section served to enhance your understanding of the course material.	3	6.33	1.15	7.00



1. The assistant to the instructor was effective.



2. The assistant to the instructor was available and responsive to questions.



3. Recitation section served to enhance your understanding of the course material.



Please comment on the effectiveness of the assistant to the instructor (AI).

Comments

The AI was helpful and responsive to email questions.

TA was awesome. Very knowledgeable and helpful.

The TA really knew her stuff, and she was extremely good at answering questions. Halfway through the semester though, she stopped responding to questions over email as much and didn't host her office anymore, which made it tough to ask any questions in the second half of the course.

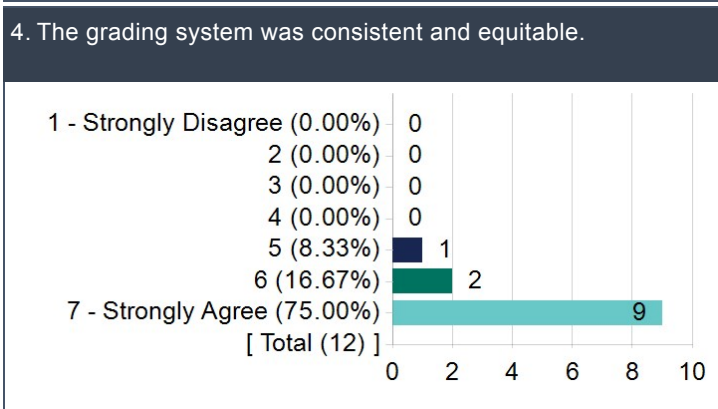
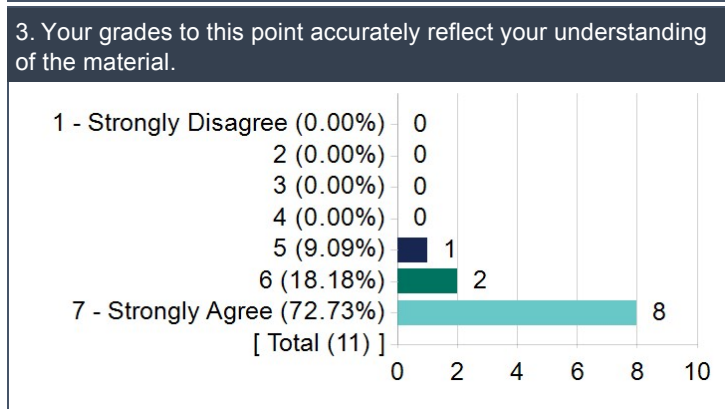
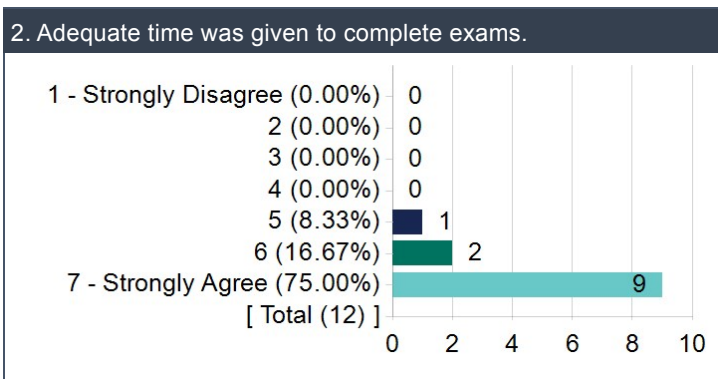
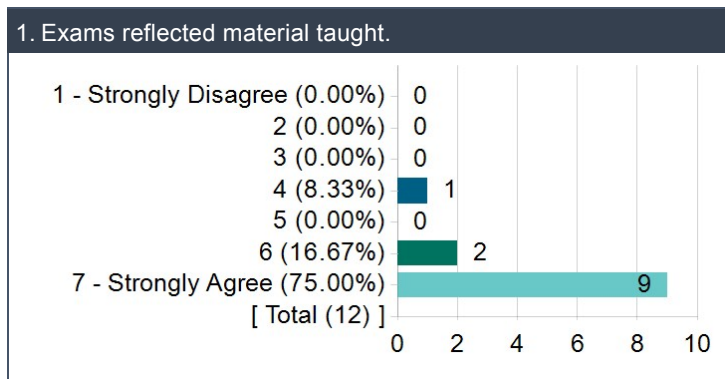
Exams and Grade

Expected grade for this course.

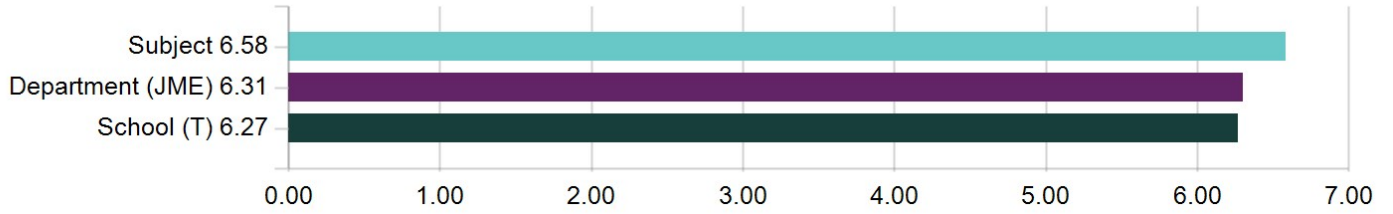
Expected grade for this course.		
Options	Count	Percentage
A	7	58.33%
B	5	41.67%
C	0	0.00%
D	0	0.00%
F	0	0.00%
P	0	0.00%

Rating Scale Responses

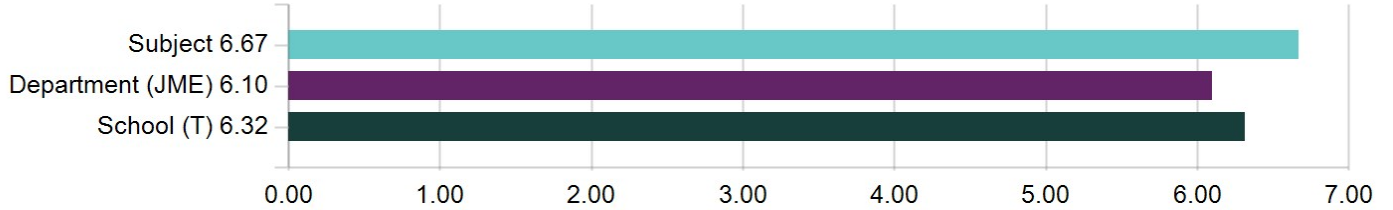
Question	Subject			
	Response Count	Mean	Standard Deviation	Median
Exams reflected material taught.	12	6.58	0.90	7.00
Adequate time was given to complete exams.	12	6.67	0.65	7.00
Your grades to this point accurately reflect your understanding of the material.	11	6.64	0.67	7.00
The grading system was consistent and equitable.	12	6.67	0.65	7.00



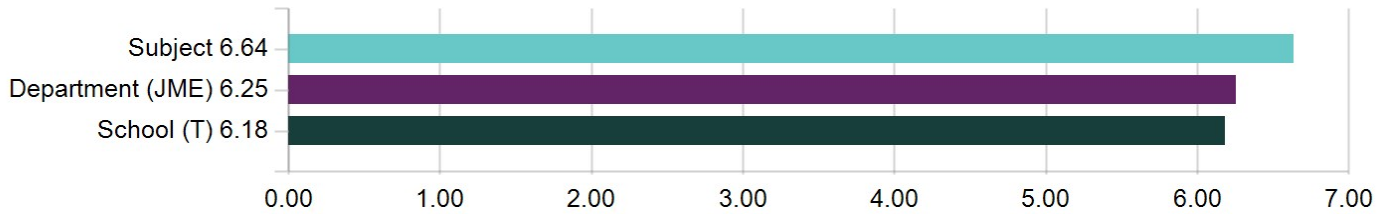
1. Exams reflected material taught.



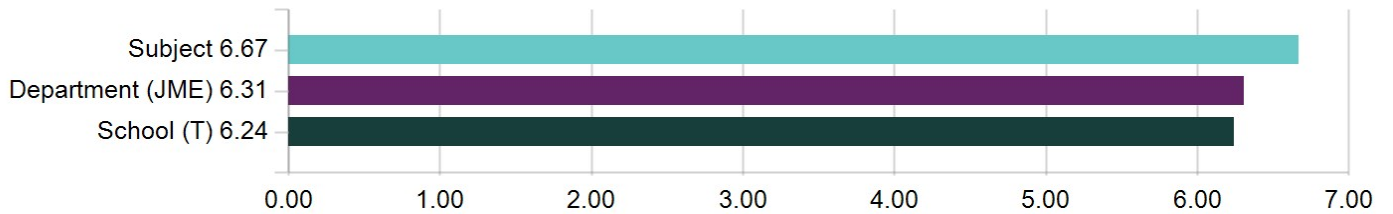
2. Adequate time was given to complete exams.



3. Your grades to this point accurately reflect your understanding of the material.



4. The grading system was consistent and equitable.



Participation

If a hybrid course, what percentage of lectures that you had the opportunity to attend in person did you indeed attend in person?

If a hybrid course, what percentage of lectures that you had the opportunity to attend in person did you indeed attend in person?

Options	Count	Percentage
none	0	0.00%
1/3	0	0.00%
1/2	0	0.00%
2/3	0	0.00%
all	0	0.00%

For sessions with the opportunity for you to attend synchronously online (versus later asynchronous viewing), what percentage did you indeed attend synchronously?

For sessions with the opportunity for you to attend synchronously online (versus later asynchronous viewing), what percentage did you indeed attend synchronously?

Options	Count	Percentage
none	0	0.00%
1/3	1	9.09%
1/2	0	0.00%
2/3	2	18.18%
all	8	72.73%

If you answered less than “all”, please explain why you chose to view the sessions asynchronously instead of attend synchronously.

Comments

I had another class that occasionally would schedule in-person meetings such that I would not be able to complete the JME3700 session, so the missed portions were viewed at a later time.

Overall

Please rate the workload for this course.

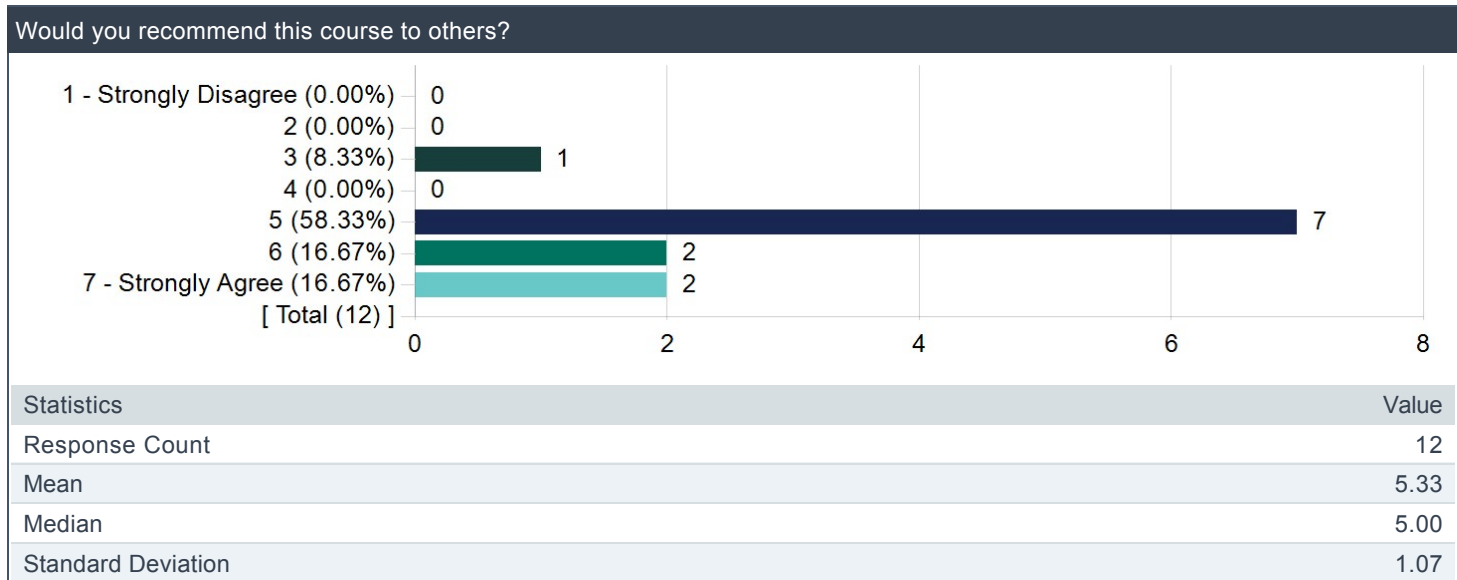
Please rate the workload for this course.		
Options	Count	Percentage
1 - far too little	0	0.00%
2	0	0.00%
3	0	0.00%
4	5	41.67%
5	6	50.00%
6	1	8.33%
7 - far too much	0	0.00%

About how many hours per week did you spend on this course outside of class?

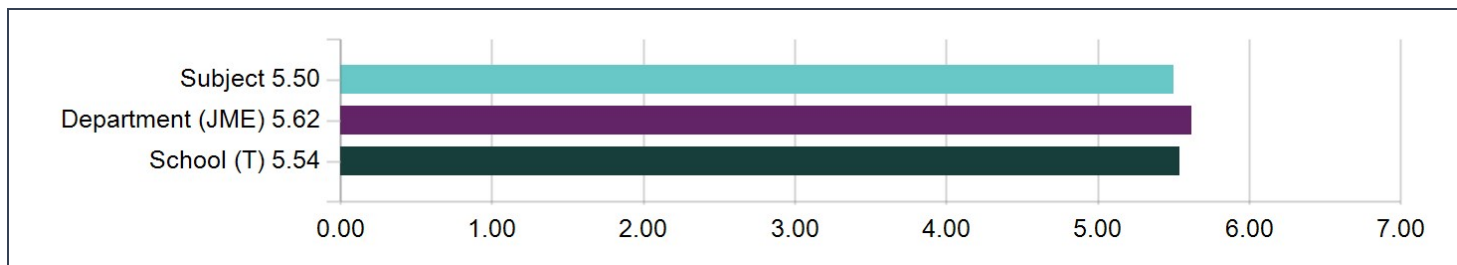
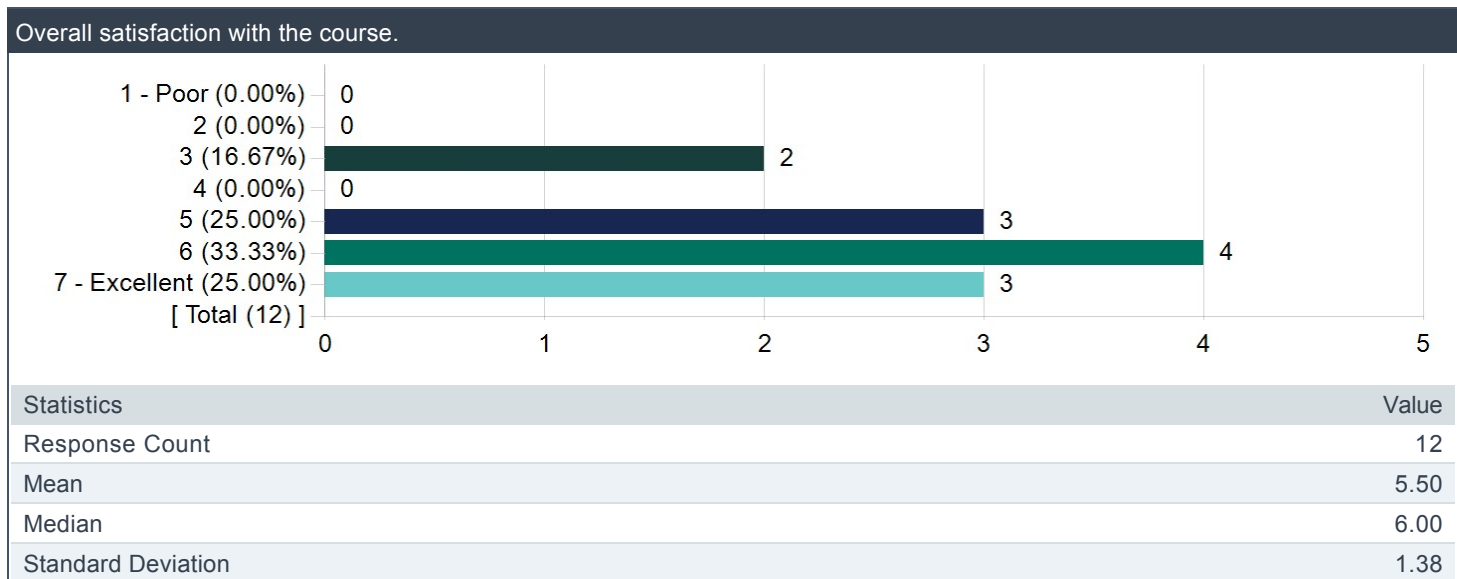
About how many hours per week did you spend on this course outside of class?

Options	Count	Percentage
0	0	0.00%
1-3	3	25.00%
4-6	3	25.00%
7-9	5	41.67%
10-12	0	0.00%
13-15	0	0.00%
Over 15	1	8.33%

Would you recommend this course to others?



Overall satisfaction with the course.



Comments

What did you like most about this course?

Comments
Homework was the right level of challenging, but doable
I liked the course content.
Dr Wendl's lectures were very engaging and interesting. I felt like he explained the material and problem solving excellently, until I started the homework.
Interesting material
Professor Wendl was a joy to listen to and learn from.
The pace
I liked that the homeworks were problems based off of lectures.
I liked getting to learn more about what fluid mechanics actually involves.
very thorough and went through every detail

How could this course improve?

Comments
The notes given in class could be clearer and more organized.
Wording homework and exam problems more similarly to the examples in the book, or explaining, in class, what the questions are asking. The hardest part was not knowing what I was supposed to do.
Occasionally the homeworks would outpace the learning material, so homework assignments would cover material not yet learned in class. This only occurred two or three times, but it made the assignments a bit difficult.
Less talking about history and more focus on the equations and how to apply them
This course needs to have a more available teacher or TA to answer questions.
The speed of this course was super fast. It felt like there was not enough time to cover everything/ what we did cover. It was extremely rushed, which made it hard to retain the information.
more real world examples that use the equations we are using

What did you like the most about Instructor **Michael Wendl**?

Comments
Instructor took the time to derive the formulas
Professor Wendl was knowledgeable about the course material. He was also very understanding of his students.
Awesome lecturer and very helpful if I had questions. He definitely wants to help students learn.
He bent over backwards to make sure the students understood the material (figuratively of course)
His excitement for the material made paying attention much easier, and his eagerness for ensuring comprehension made it easier to fully understand what was covered.
Very nice and understanding
Prof Wendl was extremely smart, and the way he taught fluids was good.
He was great at answering any questions that were presented in class.
Extremely intelligent and covers each topic with great detail

How could Instructor Michael Wendl improve?

Comments
The instructor could post the assignment submission portals on Canvas sooner.
Explain homework.
Keep more organized notes that are easy to follow
Professor Wendl needs to be more available outside of class for students. More times than not, I'd send him an email and he would never respond to it. Extremely unresponsive and did not put time into the class outside of the lecture period.
He could have had his zoom camera on. It would have helped me stay connected and more interested on the material.

What would you tell another student who asked you to describe this course?

Comments
Use to TA early and often. Don't procrastinate on homework because it is very difficult.
The course material is difficult, but trying to visualize the problems at hand makes the work more relatable and somewhat easier.
Good class but hard to follow sometimes
It's tough because the teacher isn't available outside of class and fluids is difficult anyway, plan to spend a lot of time figuring it out on your own.
It was a difficult course but worth it if you have time to set aside for it.

Have you observed any violations of academic integrity (e.g., cheating) in this course?

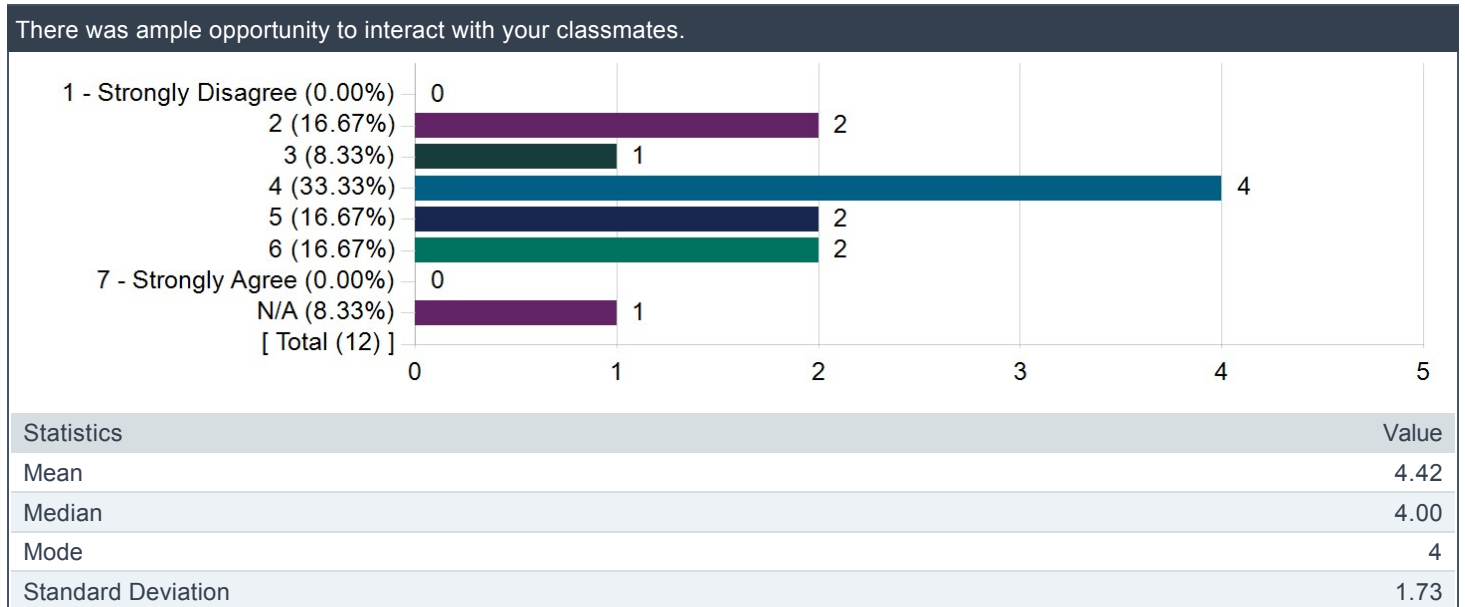
Comments
No
No.
No.
no

Any additional comments?

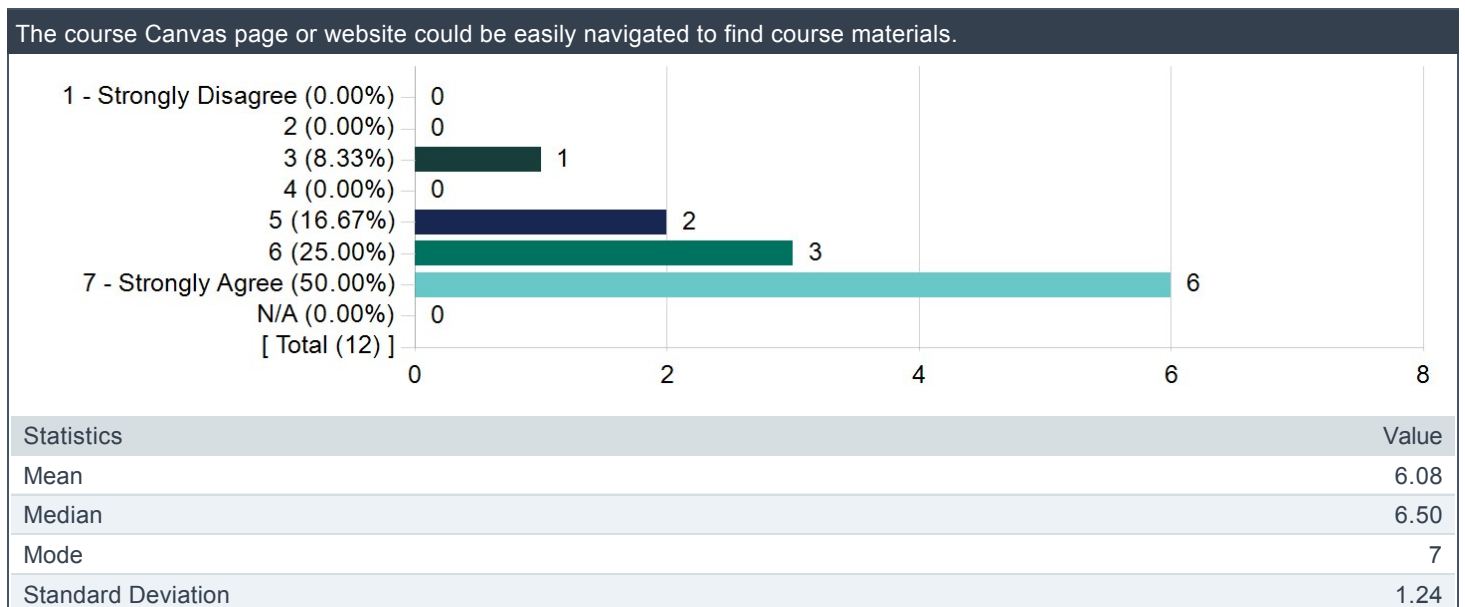
Comments
Professor Wendl encourages class participation. He may grade class participation. But I was always too shy to speak over Zoom, and I had nothing to say. I am afraid that I will be graded poorly because of that.

Hybrid/Remote Learning

There was ample opportunity to interact with your classmates.



The course Canvas page or website could be easily navigated to find course materials.



Personalized Questions

Comment on whether this course is comparable to, more difficult, or less difficult than other 3000-level courses.

Comments
Comparable
This course was comparable to other 3000-level courses.
More difficult. I understand that critical thinking is a big part of this course and I think it would be more effective to help to either have consistency between the text and lectures in terms of how to solve homework problems, or augment the lecture with explanations on how to approach the homework problems.
This is very comparable to, if not a little more difficult than, the other courses.
I think it is at the same level as other 3000 level courses
This is probably the most difficult course I have taken up to this point, a touch harder than Engineering Mathematics.
comparable
This course is similar in difficulty to other 3000 level courses
more difficult
HW is more difficult than other courses.

Please comment on the most memorable or significant thing you took from this course.

Comments
The importance of understanding where a formula comes from
I feel that this course helped prepare me for our return to in-person classes in the fall.
Organization and neatness are extremely important in note taking.
Turbulent flow is not fun, and the Navier–Stokes equations are non-linear
Initially I was a little nervous about learning fluid mechanics, as it is a difficult topic. But Professor Wendl was able to simplify it in a way that was understandable.
How to use density
Bernoulli's equation

The instructor used Zoom effectively in lieu of in-person instruction.

