



# Spring 2023 Engineering Instructor Report for SP2023.T17.JME.3700.01 - Fluid Mechanics (Michael Wendl)

Project Title: **Spring 2023 Course Evaluations - Danforth Campus**

Courses Audience: **42**  
Responses Received: **20**  
Response Ratio: **47.62%**

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## 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](mailto:evals@wustl.edu)

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Creation Date: **Wednesday, May 17, 2023**

## 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	20	100.00%
No	0	0.00%

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

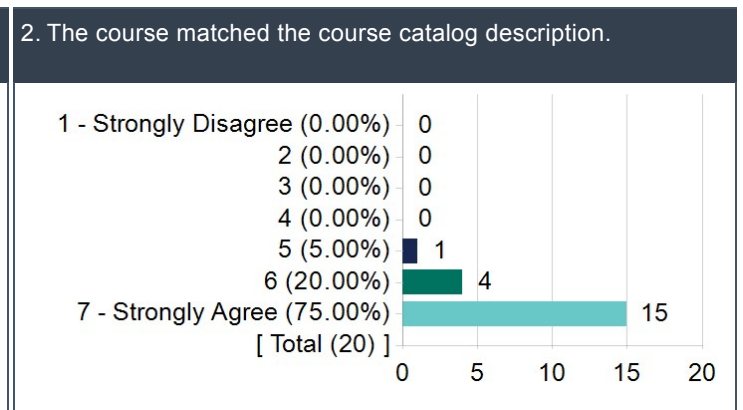
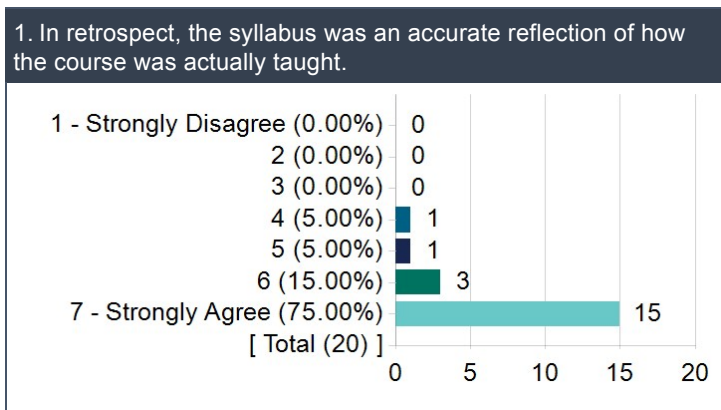
Did the syllabus explain the content and administration of the course (e.g., office hours, grading)?		
Options	Count	Percentage
Yes	20	100.00%
No	0	0.00%

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

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Options	Count	Percentage
Yes	20	100.00%
No	0	0.00%

## Rating Scale Responses

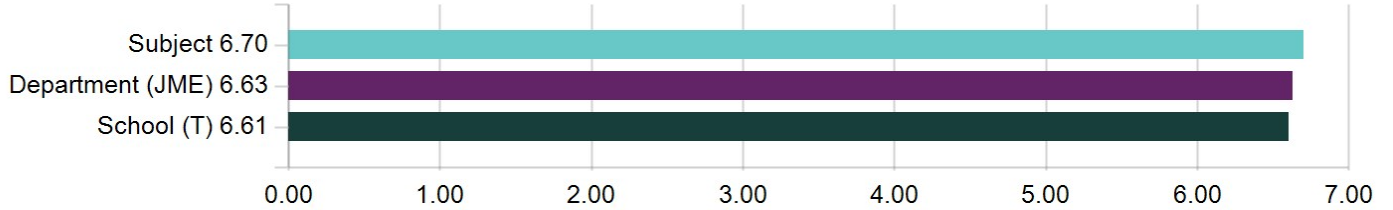
Question	Subject			
	Response Count	Mean	Standard Deviation	Median
In retrospect, the syllabus was an accurate reflection of how the course was actually taught.	20	6.60	0.82	7.00
The course matched the course catalog description.	20	6.70	0.57	7.00



1. In retrospect, the syllabus was an accurate reflection of how the course was actually taught.

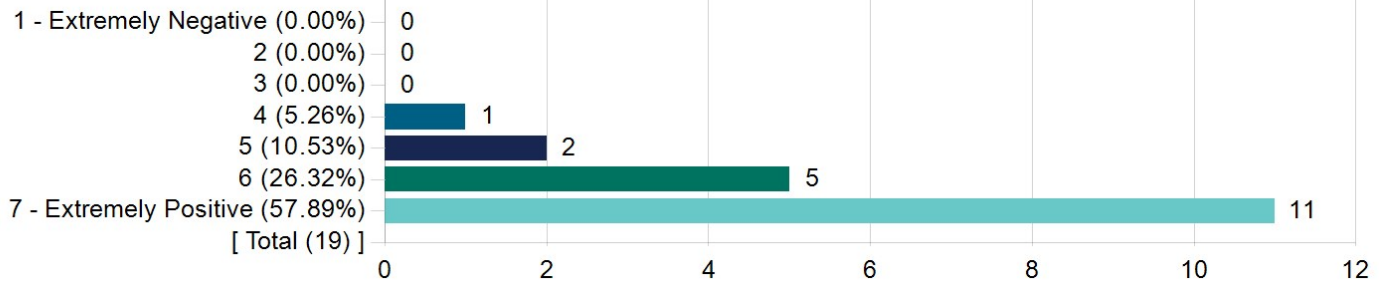


2. The course matched the course catalog description.

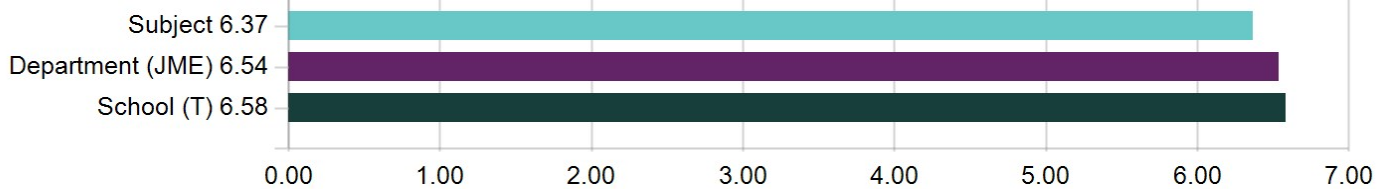


Please rate how well **Michael Wendl** promoted an inclusive learning environment with regard to the diversity of student personal backgrounds and identities.

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Statistics	Value
Response Count	19
Mean	6.37
Median	7.00
Standard Deviation	0.90

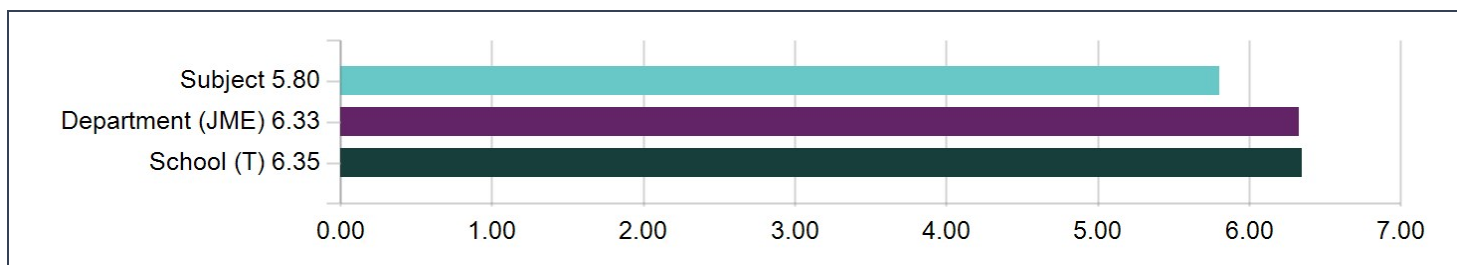
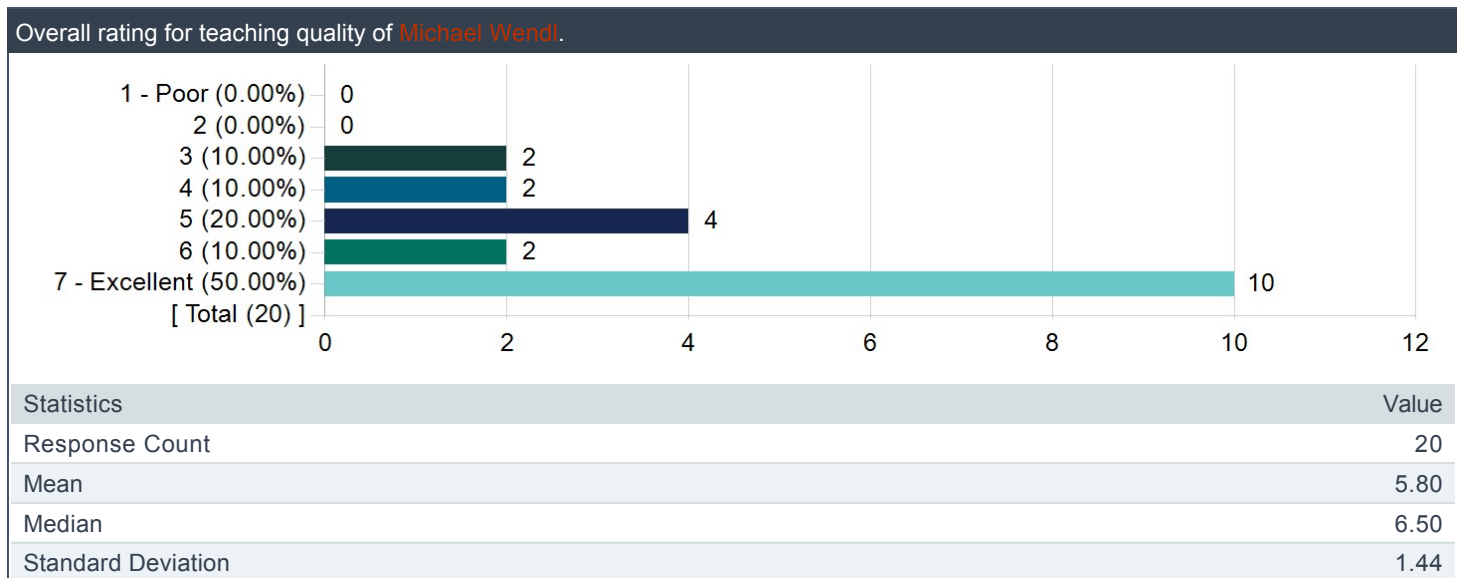


Where relevant, please give specific examples to explain your answer above.

Comments
He made the learning environment fair for everyone.
Always answered questions from everyone.
Just taught the class like normal and wasn't racist so that's how he was inclusive
I don't know what the above question means, but Professor Wendl was a very pleasant instructor and has a lot of enthusiasm for the subject.

## Instructor Evaluation

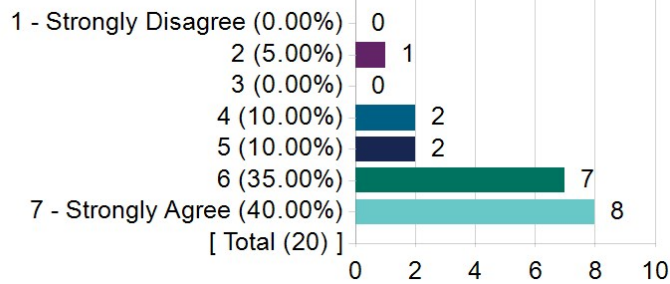
Overall rating for teaching quality of **Michael Wendl**.



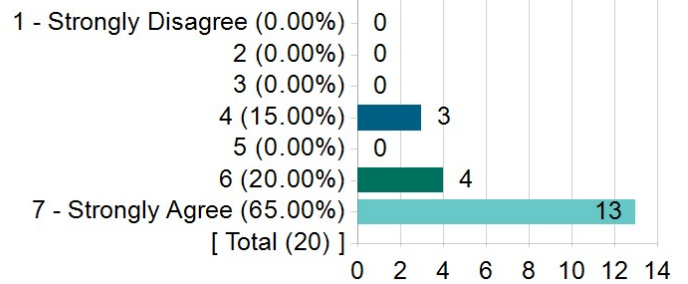
Rating Scale Responses for **Michael Wendl**

Question	Response Count	Subject		
		Mean	Standard Deviation	Median
The instructor made the course interesting.	20	5.90	1.33	6.00
The instructor was enthusiastic about the course.	20	6.35	1.09	7.00
The material was covered at a reasonable pace.	20	5.55	1.36	5.00
The instructor was available to answer questions (through office hours, email, etc.).	20	5.85	1.39	6.00
The instructor was well-organized and prepared for class.	20	6.05	1.32	6.50
The instructor explained the course material so that you could understand it.	20	5.60	1.57	6.00

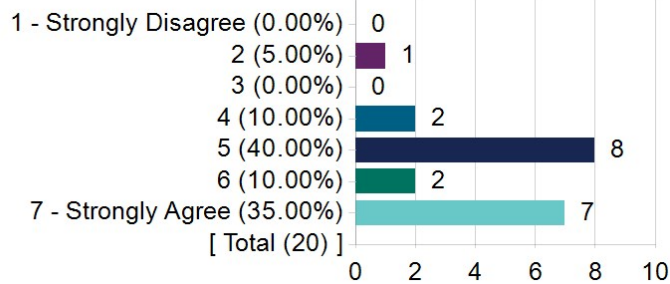
1. The instructor made the course interesting.



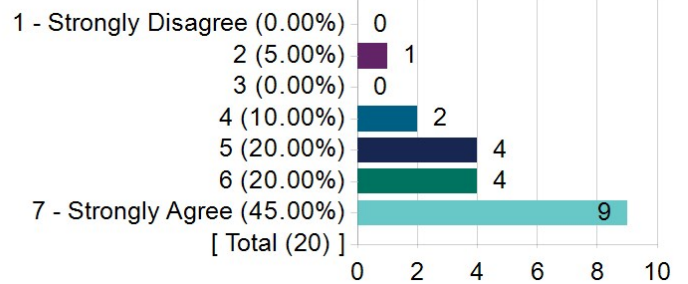
2. The instructor was enthusiastic about the course.



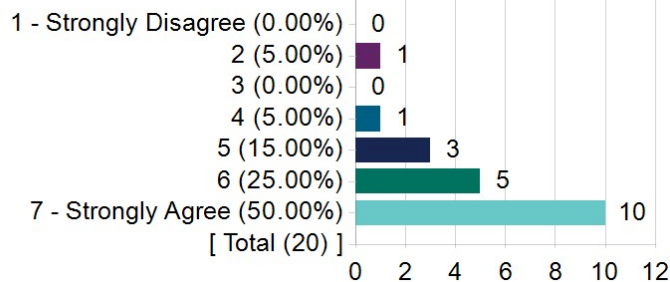
3. The material was covered at a reasonable pace.



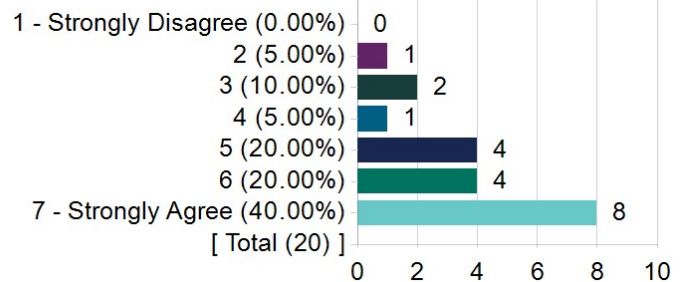
4. The instructor was available to answer questions (through office hours, email, etc.).



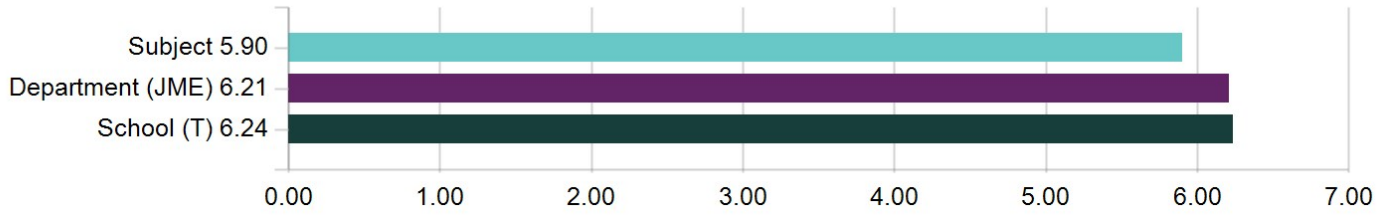
5. The instructor was well-organized and prepared for class.



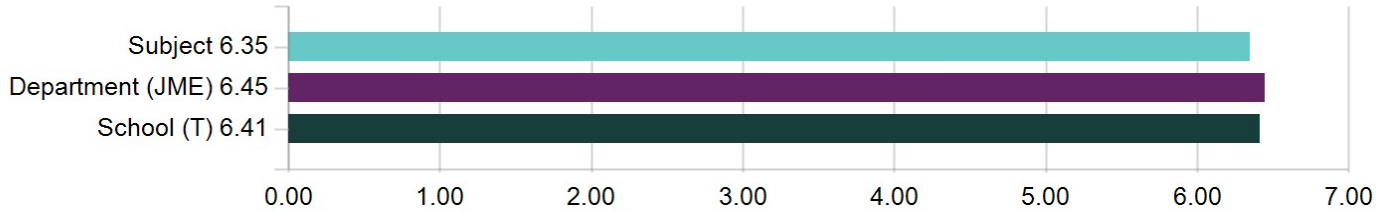
6. The instructor explained the course material so that you could understand it.



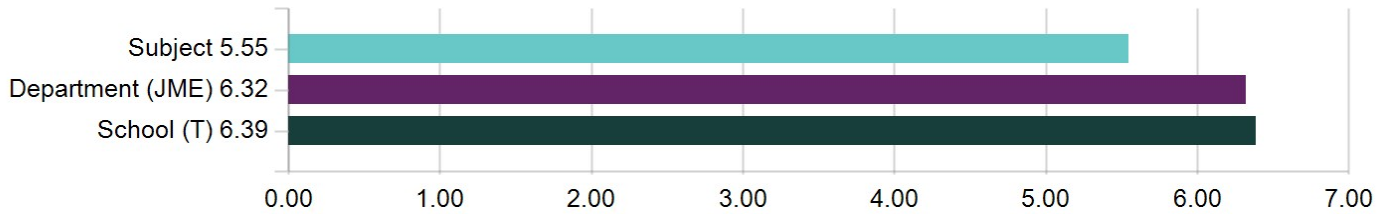
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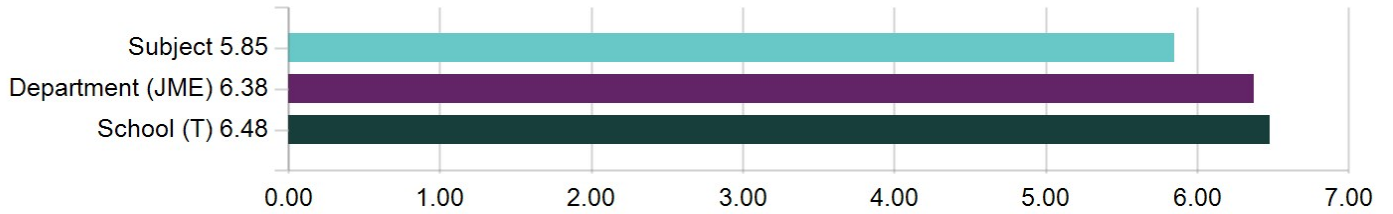
2. The instructor was enthusiastic about the course.



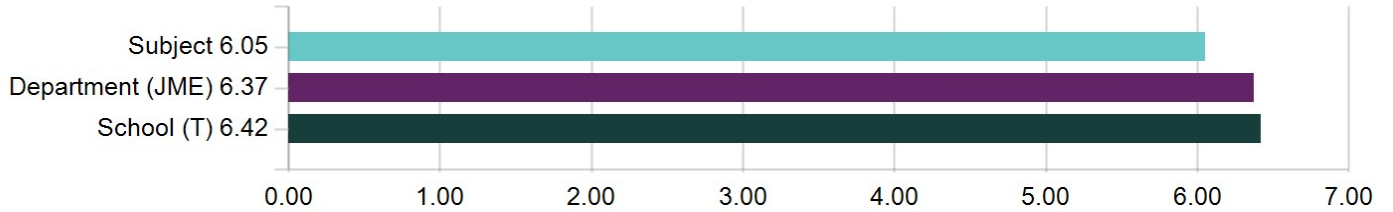
3. The material was covered at a reasonable pace.



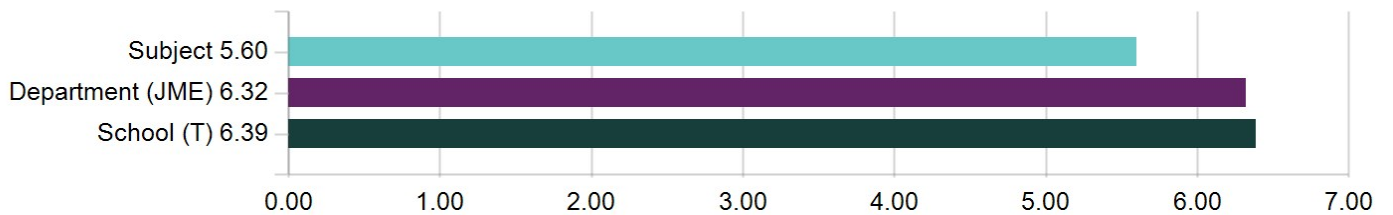
4. The instructor was available to answer questions (through office hours, email, etc.).



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



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

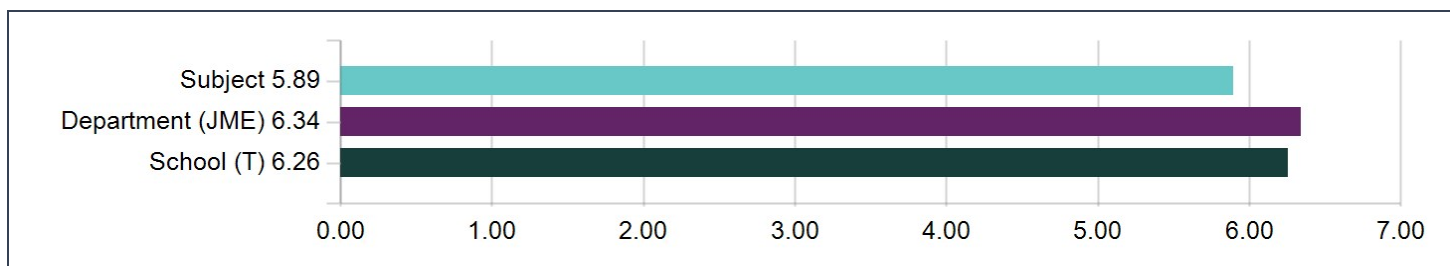
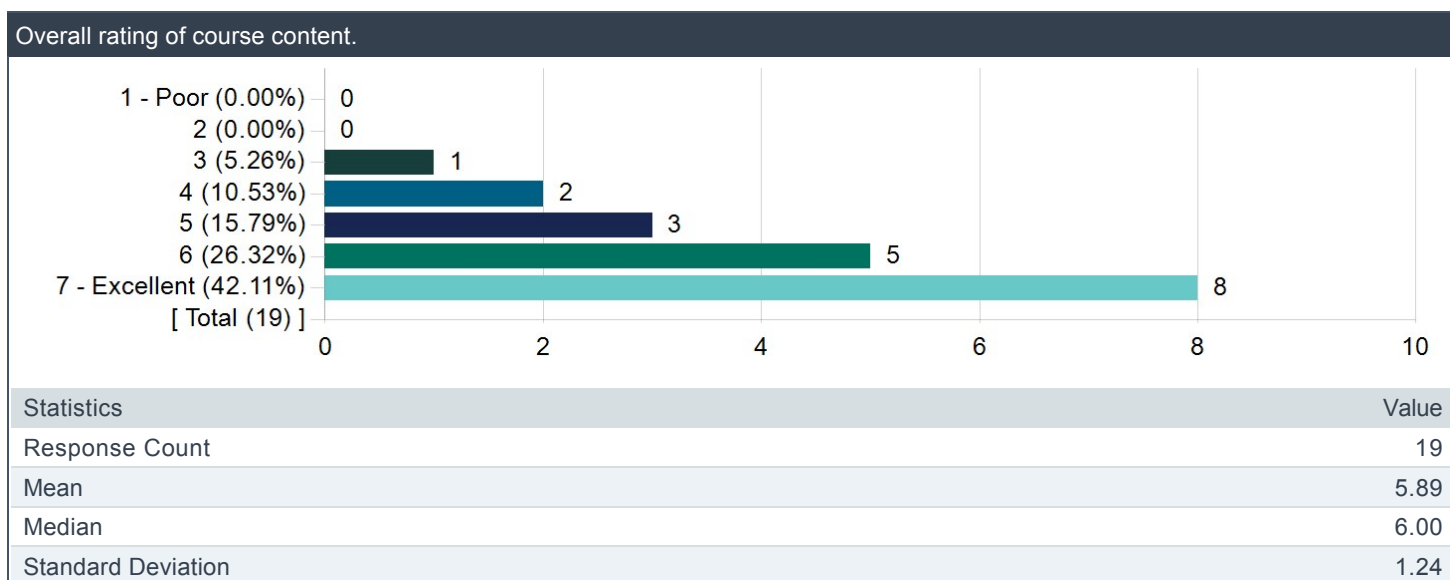


**Please elaborate if you felt the material was not covered at a reasonable pace.**

Comments
The only thing I saw as a difficulty for me was how the chalkboards were used as it was difficult to follow midway through lectures at times due to the workflow of the problem solving done at times.
The last chapter was crammed into the last day of class which was fine, but I was expecting a final exam review. If Wendl could have scheduled out the previous chapters faster then perhaps we could have gotten some review.
It was hard to get ahold of Professor Wendl. We only had about 10 minutes after class to speak with him, and any other questions were directed to the TA.
Felt like we went over on every lecture. Professor spoke/wrote at impressive unrelenting pace, yet still didn't get thru all material by end of semester.
It was hard to formulate questions because the digestion of the information took longer for me. It was fast paced.

**Course Materials and Assignments**

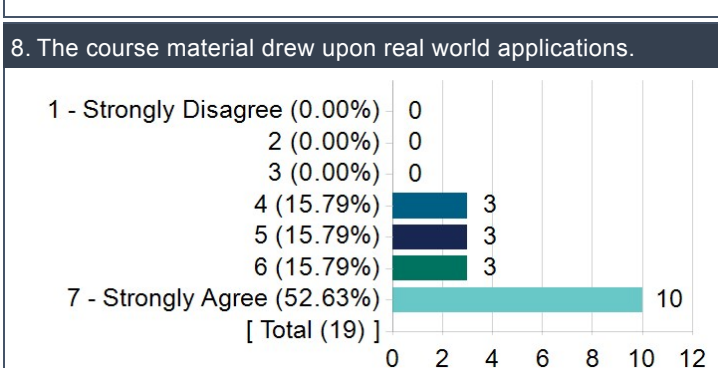
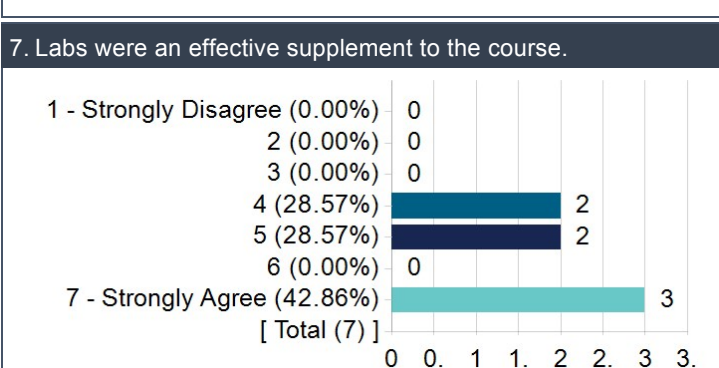
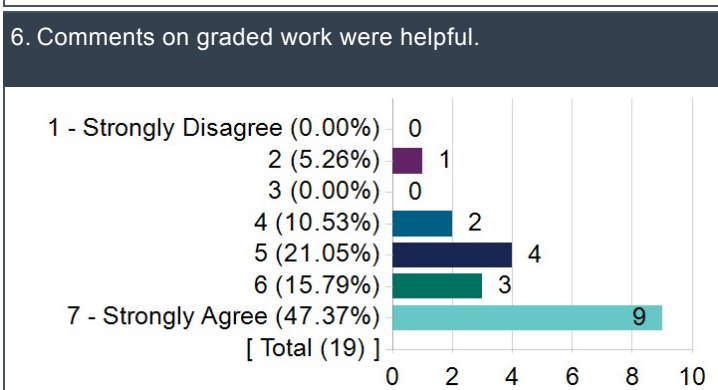
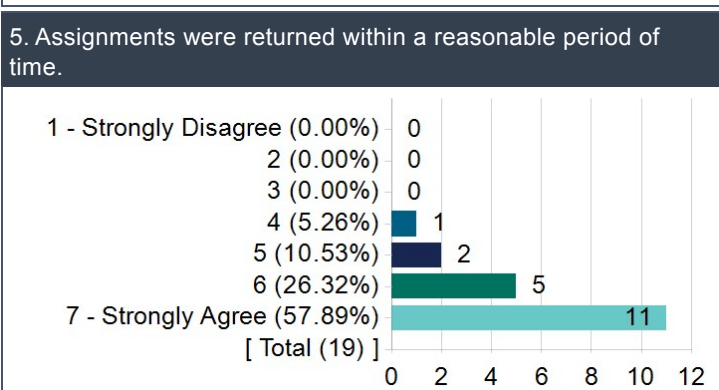
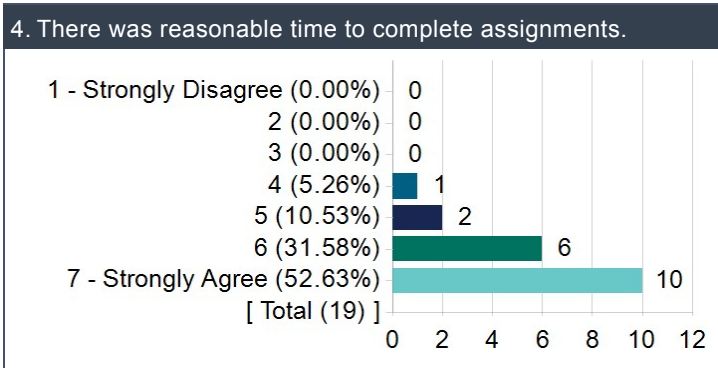
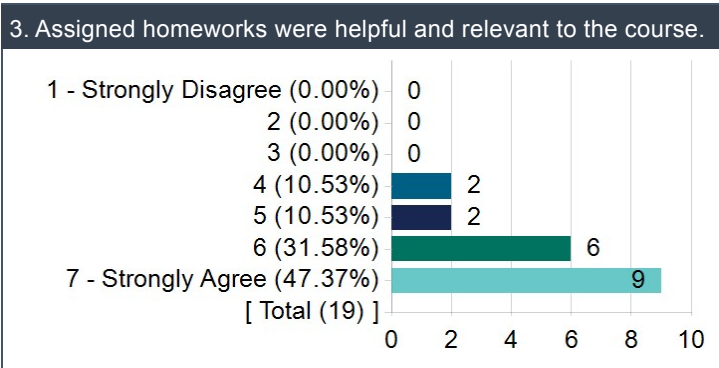
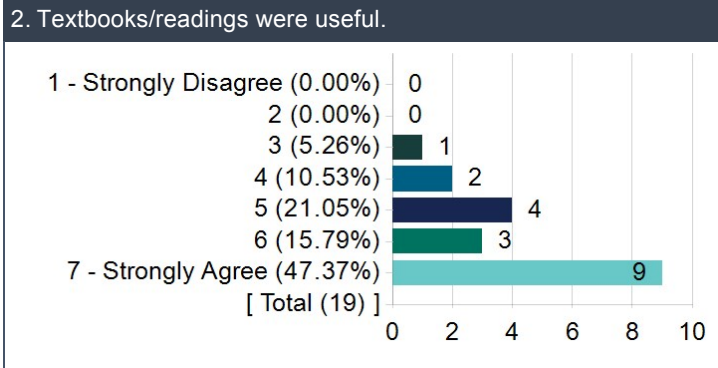
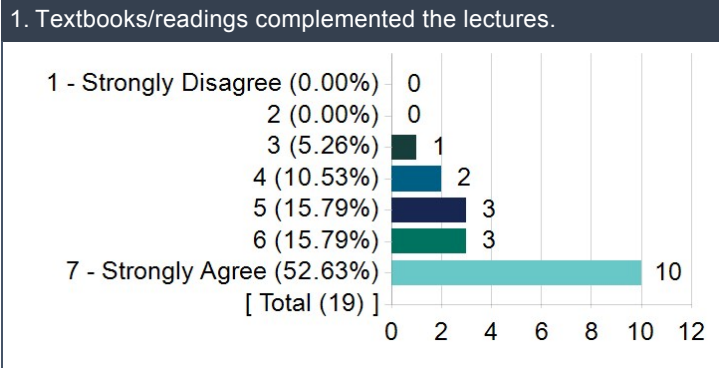
**Overall rating of course content.**



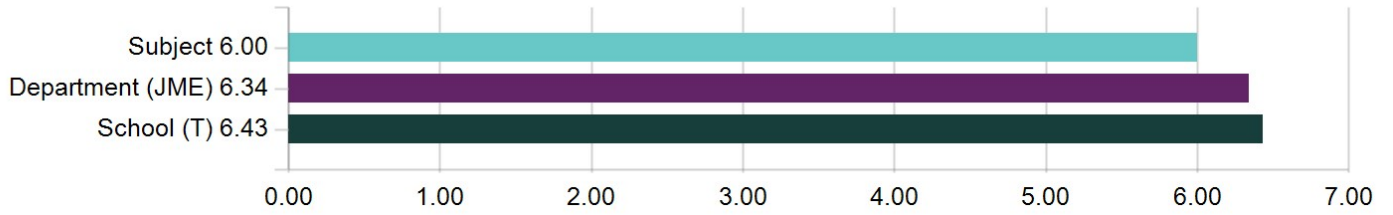
## Rating Scale Responses

Question	Subject			
	Response Count	Mean	Standard Deviation	Median
Textbooks/readings complemented the lectures.	19	6.00	1.29	7.00
Textbooks/readings were useful.	19	5.89	1.29	6.00
Assigned homeworks were helpful and relevant to the course.	19	6.16	1.01	6.00
There was reasonable time to complete assignments.	19	6.32	0.89	7.00
Assignments were returned within a reasonable period of time.	19	6.37	0.90	7.00
Comments on graded work were helpful.	19	5.84	1.42	6.00
Labs were an effective supplement to the course.	7	5.57	1.40	5.00
The course material drew upon real world applications.	19	6.05	1.18	7.00

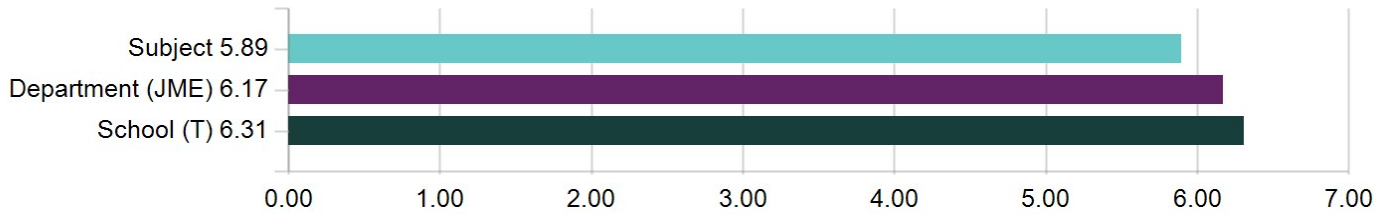




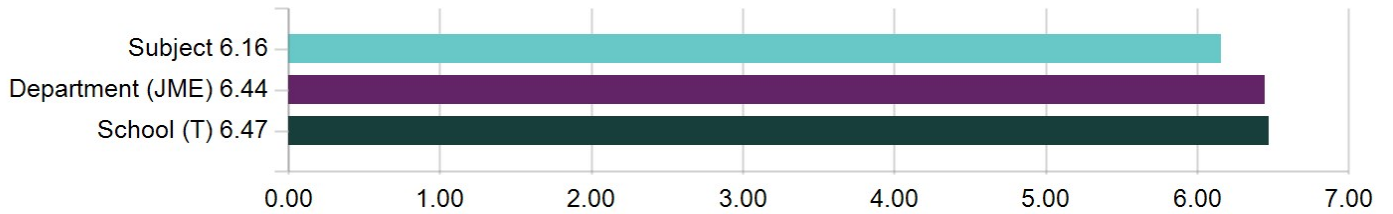
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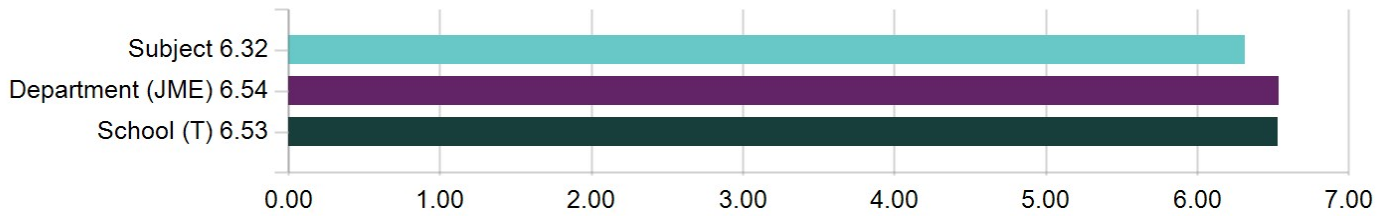
2. Textbooks/readings were useful.



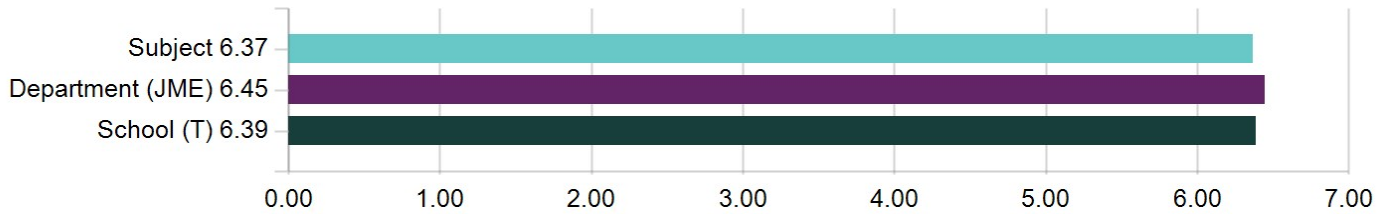
3. Assigned homeworks were helpful and relevant to the course.



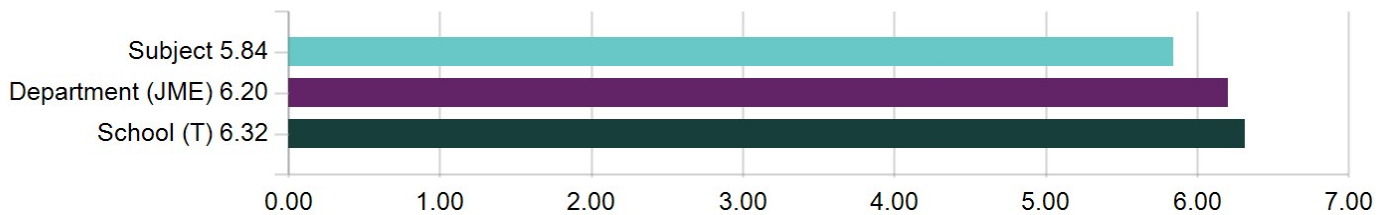
4. There was reasonable time to complete assignments.



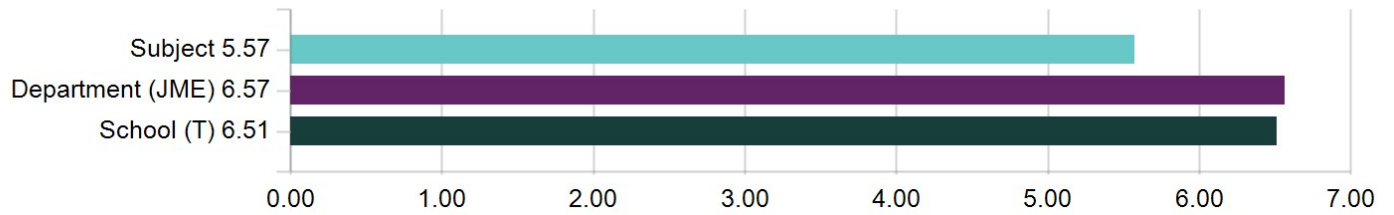
5. Assignments were returned within a reasonable period of time.



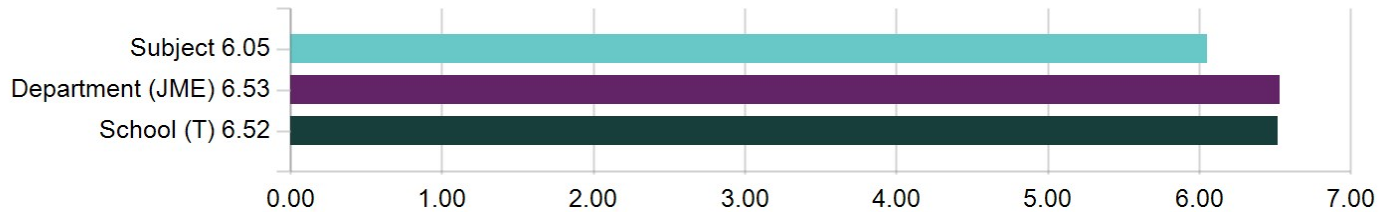
6. Comments on graded work were helpful.



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.

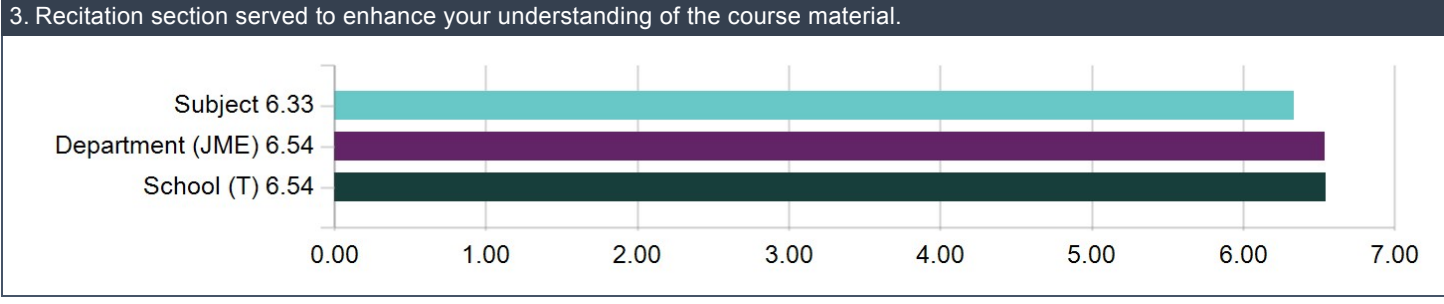
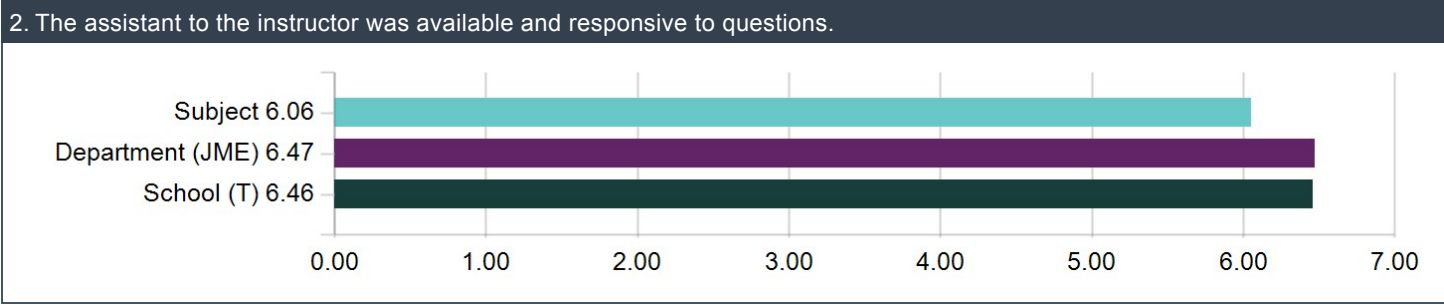
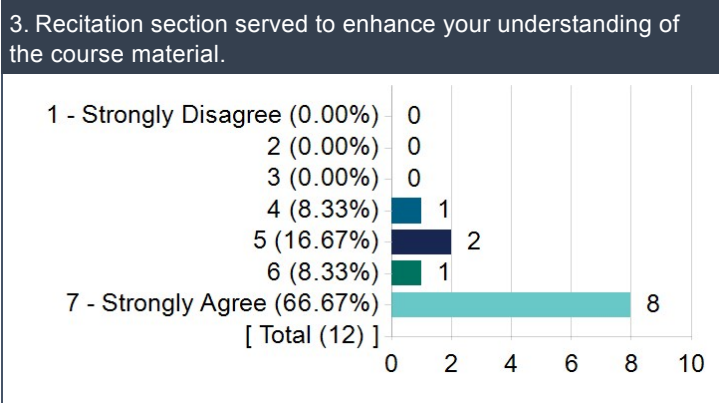
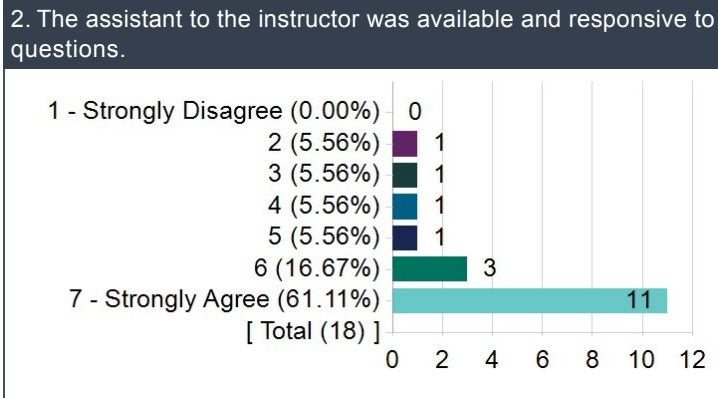
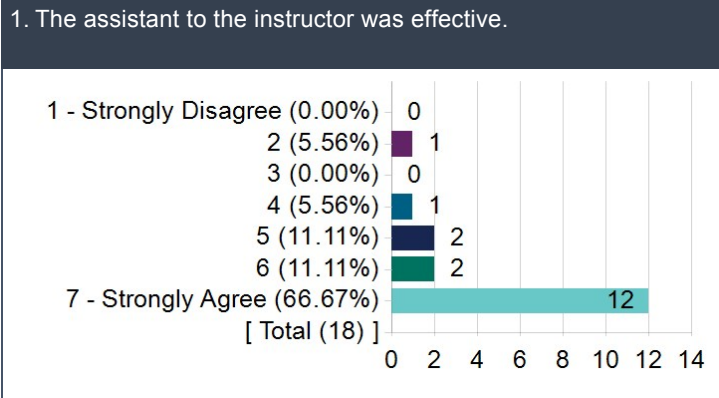
Comments

Textbook was made nearly useless with the existence of Wendl's class notes.

Assistant to the Instructor (AI) and Recitation

Rating Scale Responses

Question	Response Count	Subject		
		Mean	Standard Deviation	Median
The assistant to the instructor was effective.	18	6.22	1.40	7.00
The assistant to the instructor was available and responsive to questions.	18	6.06	1.55	7.00
Recitation section served to enhance your understanding of the course material.	12	6.33	1.07	7.00



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

Comments
Ready and attentive to answer questions. Emails were very responsive.
She was very nice and helpful
She was fantastic, quick with grading homework and insightful on the test corrections.
The TA missed quite a few office hours with no prior communication, so it was a problem to show up and her not be there. Other than that she was very helpful.
She was great and very knowledgeable.
The Ta sessions are hard to make. When assignments are distributed Friday afternoon, a Friday morning TA session is not helpful. Her other session is Wednesday evening, during class hours. On top of that, she no showed at least 4 times during this semester. She did provide some insight, but overall I could not count on help from her.

**Please comment on the effectiveness of the recitation section.**

Comments
Didn't go

**Exams and Grade**

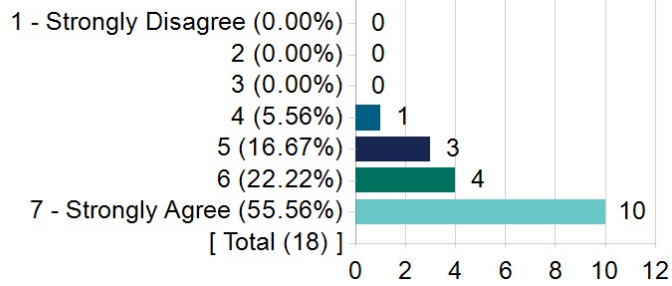
**Expected grade for this course.**

Expected grade for this course.		
Options	Count	Percentage
A	5	26.32%
B	8	42.11%
C	4	21.05%
D	2	10.53%
F	0	0.00%
P	0	0.00%

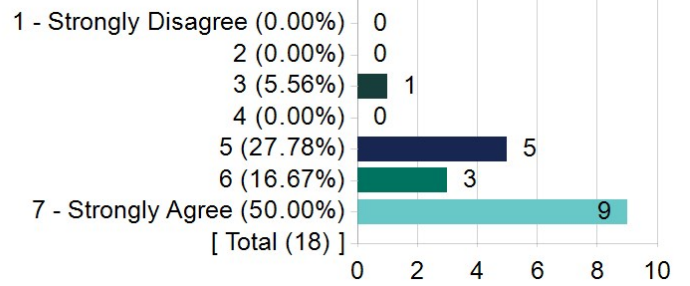
**Rating Scale Responses**

Question	Subject			
	Response Count	Mean	Standard Deviation	Median
Exams reflected material taught.	18	6.28	0.96	7.00
Adequate time was given to complete exams.	18	6.06	1.16	6.50
Your grades to this point accurately reflect your understanding of the material.	18	5.89	1.13	6.00
The grading system was consistent and equitable.	18	6.17	0.92	6.50

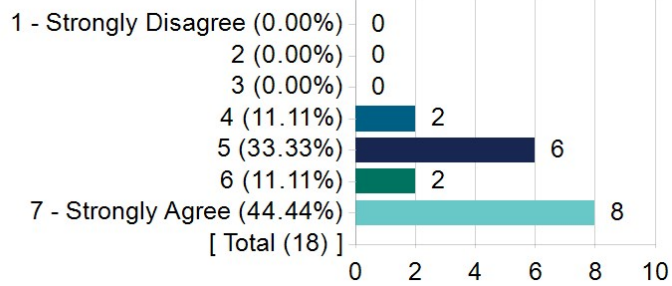
1. Exams reflected material taught.



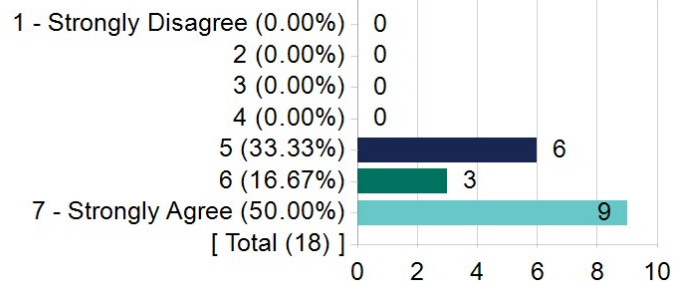
2. Adequate time was given to complete exams.



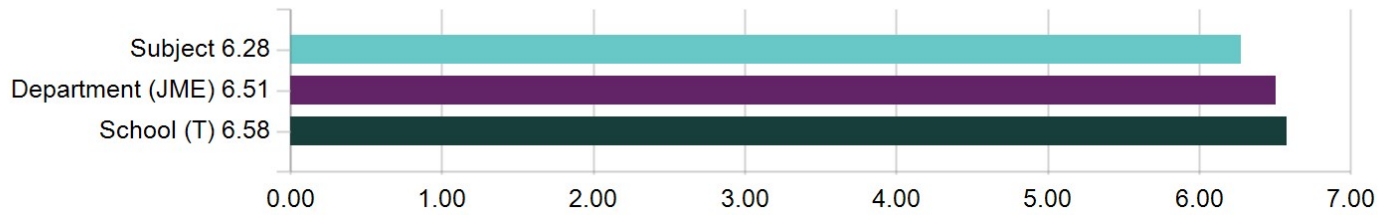
3. Your grades to this point accurately reflect your understanding of the material.



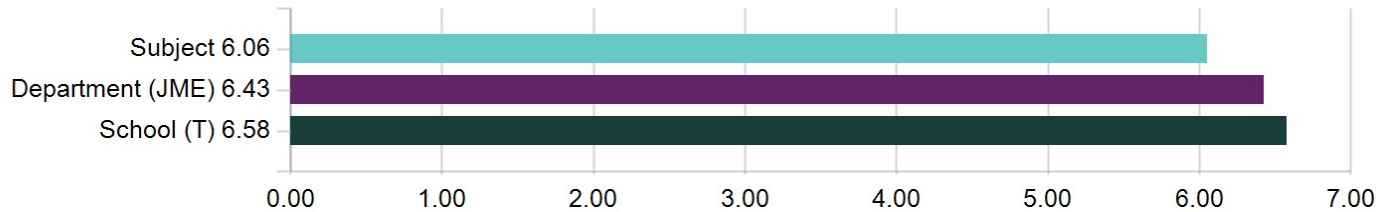
4. The grading system was consistent and equitable.



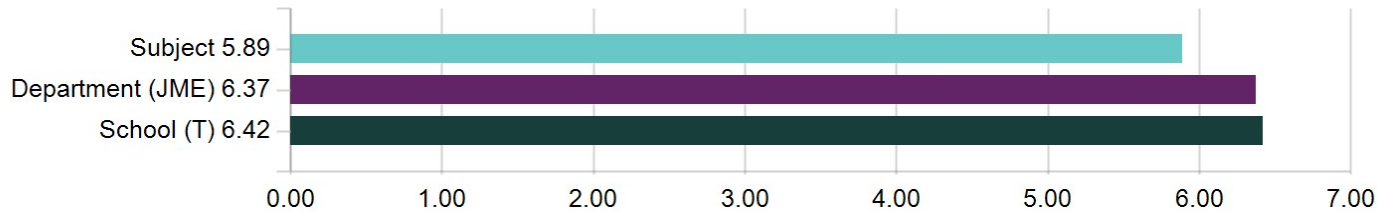
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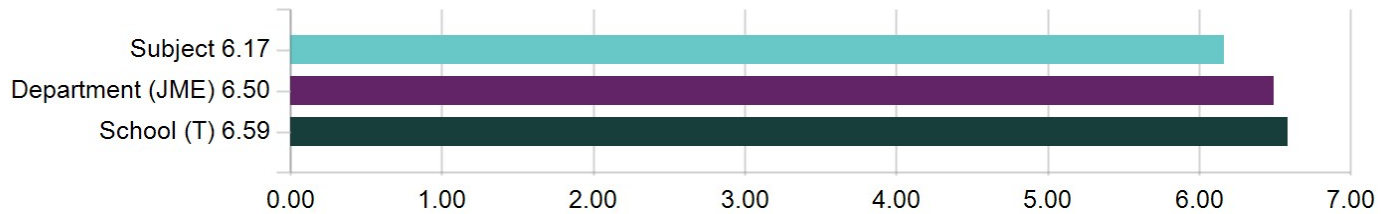
2. Adequate time was given to complete exams.



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



4. The grading system was consistent and equitable.



Please elaborate if you felt the grading system was not consistent and equitable.

Comments

I wish the grades showed the final so I could estimate the average grade I'd need to try to go over to pass for a little more ease on the pre final anxiety

I am not sure how it works to be honest, I am hoping I will get a good grade though.

I haven't received my grade yet as the class is not complete. A strange prompt seeing as these are due before the class is complete.

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## Participation

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### Overall

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

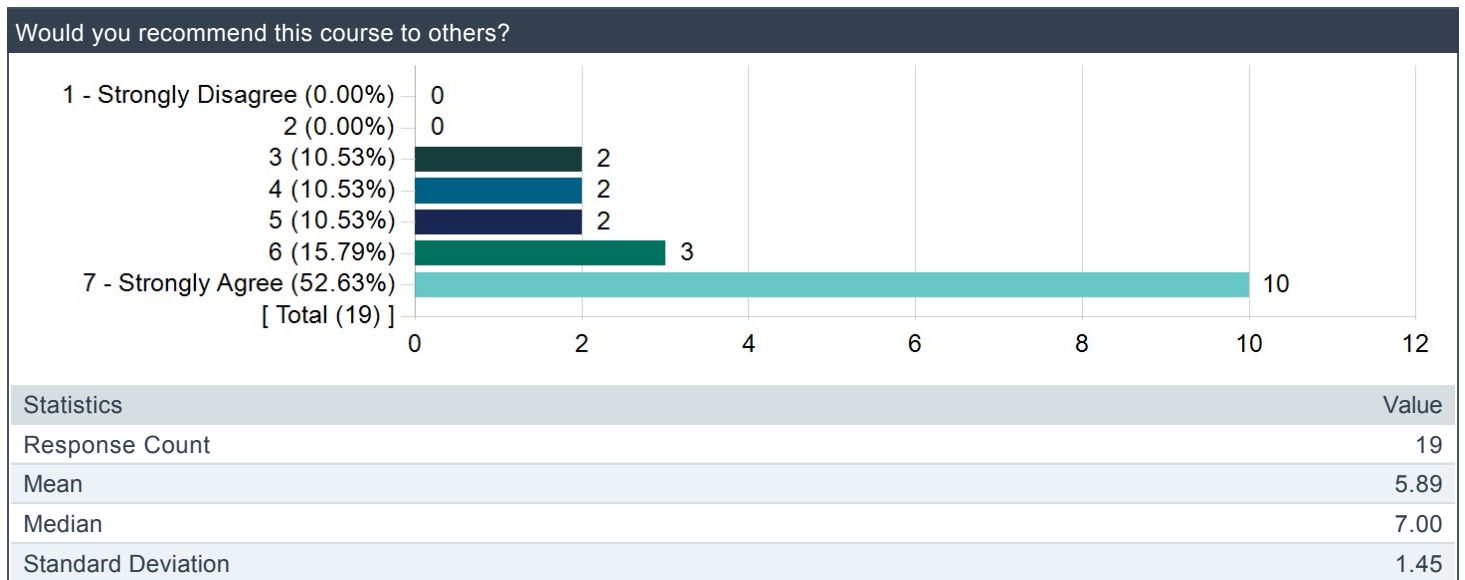
About how many hours per week did you spend on this course outside of class?		
Options	Count	Percentage
0	0	0.00%
1-3	2	10.53%
4-6	8	42.11%
7-9	5	26.32%
10-12	2	10.53%
13-15	2	10.53%
Over 15	0	0.00%

**What percentage of the lectures did you attend?**

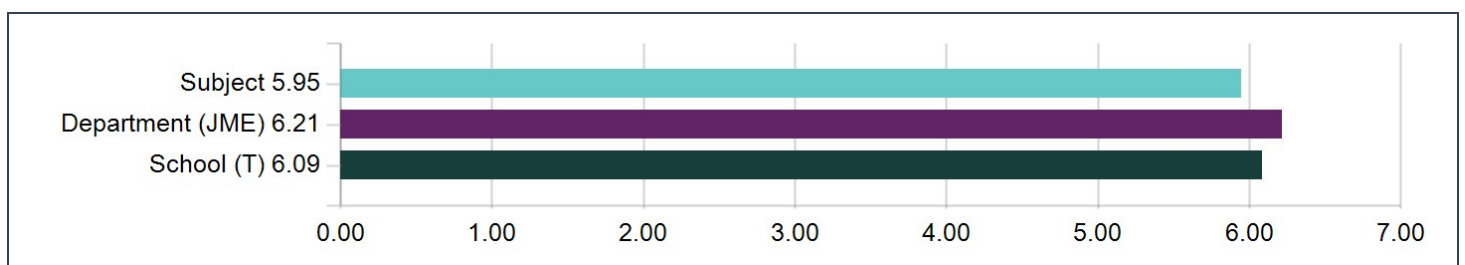
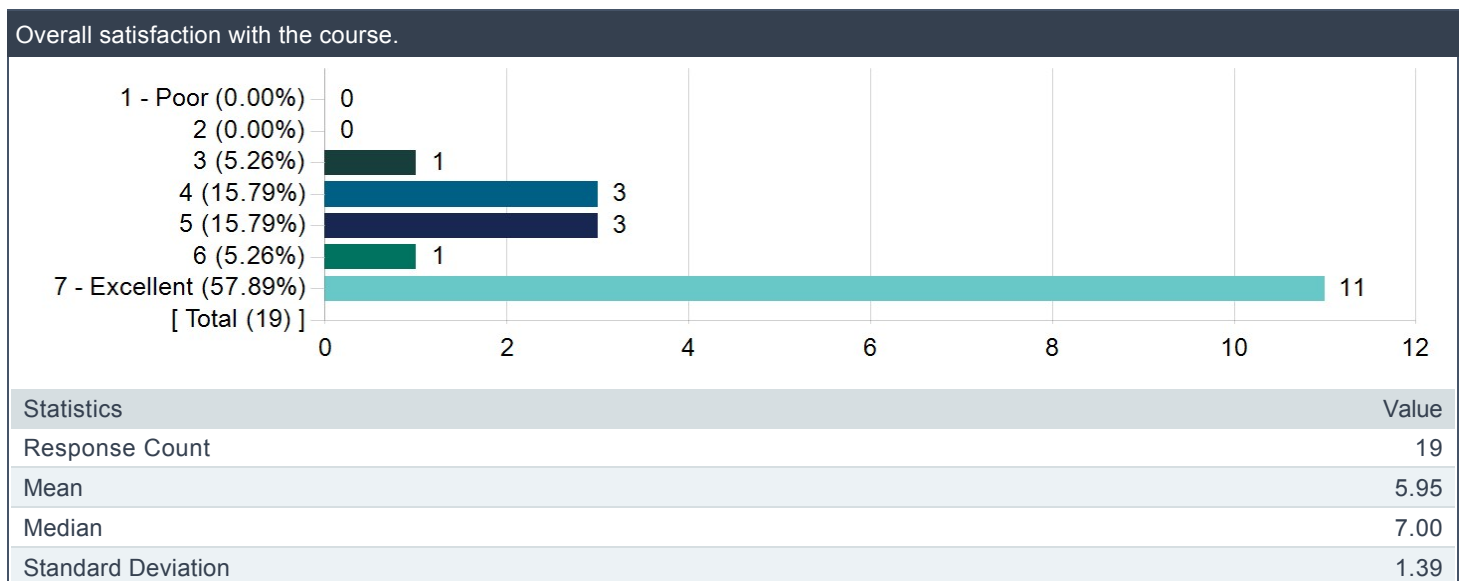
What percentage of the lectures did you attend?		
Options	Count	Percentage
0%	0	0.00%
10%	0	0.00%
20%	0	0.00%
30%	0	0.00%
40%	0	0.00%
50%	1	5.26%
60%	0	0.00%
70%	3	15.79%
80%	1	5.26%
90%	6	31.58%
100%	8	42.11%



## Would you recommend this course to others?



## Overall satisfaction with the course.



## Any comments on why you did or did not attend lecture?

Comments
I had times where I had to try to finish assignments early due to my two part time jobs I'm doing to pay for classes but I tried the best I could to attend and learn the material. Unfortunately the material is a little abstract for me to understand but I hope to bridge that gap in knowledge and application in further practicing problems and learning the material in multiple ways.
UMSL Spring Break
They are important and not recorded. Great class with interesting dynamics.
I had concerts that I had to perform in.
Could tell that some days were going to be more theory based, and those you can usually miss without missing too much of the content. You can just read the book and get it.
I was sick for one and had to miss another due to a late shift at work.
My vehicle was destroyed in an accident on the way to a lecture, and I was unable to make one of the classes.
Work, illness
Only missed lectures when I had another kid, or when they were sick.

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## Comments

### What did you like most about this course?

Comments
A lot of the material and notes were online
Homeworks were challenging and fair at the same time.
The material we learned as well as the Professor.
This course was fine, nothing notable.
Fluid Mechanics is quite interesting and has a lot of cool real world applications.
The content was very interesting
The professor was very smart and knew exactly what he was talking about.
Useful interesting material
It is a very interesting course and our professor explained it very well
n/a
Professor Wendl gave some history and background, sometimes leading into future topics. He made the course interesting, great lectures.
To learn new concepts that i did not know that we were able to calculate
I liked the challenge.

## How could this course improve?

Comments
Recording the lectures for those who have a difficult time digesting material whilst taking notes. I would have preferred to be able to go over the lecture with my notes to further understand the concepts and material taught
N/A
None
It seems like a well oiled machine.
Prof. Wendl is an excellent person and extremely knowledgeable about Fluid Mechanics. That being said, the way the lectures were set up did not work for me. I work best when a professor uses a slide show for their lectures, and then does examples on the blackboard. Since it is purely on a blackboard I have trouble seeing what characters are what, and if Wendl forgets a portion of the problem it confuses me.
It is pretty advanced so I don't think it can get any easier
I think it's kind of hard to improve a course like this. I think it's good the way it is especially having old lecture videos to refer back to.
More time to cover material?
It's very good, can't think of any improvement
n/a
New TA
using more examples when explaining something and clarify the right equation we have to use
The way it's taught in class wasn't my preferred method. All chalkboard, even the pictures were drawn. I am a visual learner so I think using the projector to show the pictures of the material being taught would be more helpful.

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

Comments
He was always open to questions for clarification
He proved that he was very knowledgeable about fluids.
He was very nice. He understood the material really well and knows what he is talking about when you ask him anything.
His knowledge of the material is vast and there is never a question I couldn't answer.
Prof. Wendl is not only knowledgeable about Fluid Mechanics, but is genuinely enthusiastic to teach. Although his way of writing out lectures isn't always the best for me, his enthusiasm and knowledge made it much easier to understand the content.
He knows the subject extraordinarily well!
He was very smart and put together for each class. He was very considerate of the student's time as well which is a relief.
His enthusiasm for the subject and willingness to discuss and allude to the complexities beyond what is covered in the course. He did a very good job considering the very limited amount of time available to cover the curriculum.
Understands material and able to explain it to us
He was very nice and explained everything thoroughly
Knowledgeable on the material
Very good lectures, full of information.
how much he know about the material
His enthusiasm.

## How could Instructor **Michael Wendl** improve?

Comments
A little more structure in the way he used the chalkboard. I got lost trying to piece together some of the parts of problems during the solving phase
N/A
None
Like I said before, having a bit more of the schedule on the notes and what to cover each day so that we don't have to cram in the last class would be ideal.
Make a more concise lecture plan.
Maybe teach less theory and do more practice problems.
I think he did an A+ job.
Covered a lot of stuff twice– e.g. partway thru a problem, realize we haven't covered related topic, cover topic, then restart problem later
No comment
Provide more examples for the equations he introduces
No suggestions.
going sometimes more step by step with more detail
Going over actual problems with numbers and calculations, instead of just theories and proofs.

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

Comments
Record the lectures on their own to have a record to review with notes taken
The classroom is difficult but it will challenge you as a student and an engineer.
It's a hard class because of the material but Professor Wendl is a great professor that will guide you through this.
Print out the professors notes before class, that way you don't have to copy everything and can instead pay more attention to what he is saying.
Hard but not impossible. You have to take it for Mechanical Engineering.
I'd tell them it's difficult and maybe hard to understand at times but if you ask questions, follow along, and do the work the way it's supposed to be done, you'll get along well.
It is unique and different than typical courses
The professor's teaching is very conceptual which may make it very difficult to understand if you're more into the practical approach. By practical, it is example problems. Furthermore, his explanation is very comprehensive so you may not be able to fully understand what he's talking about. It's best to go over the notes and read the textbook.
Professor is great, TA not so much.
to not miss any lecture
Proof based course.

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

Comments
no
No
No
I have not
No
No
no
No.

## Any additional comments?

Comments
Have a good summer!
I like how Professor Wendl mentioned advanced CFD, math, physics and other things to spark interest. He gave some background and history where relevant and made each lecture entertaining.
Overall, it's a tough subject, but I think it could be taught much differently. In class we just went over some things that I could read in the textbook. I would prefer if in class he asked us questions and let us go over some things slower and break it down.

## Danforth Question

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

