



## WashU Spring 2017 Instructor Report for SP2017.E37.MEMS.5403.01 - Conduction and Convection Heat Transfer (Michael Wendl)

### WashU Spring 2017 Course Evaluations

Project Audience 24

Responses Received 13

Response Ratio 54.17%

#### 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 or concerns about your report, please contact [evals@wustl.edu](mailto:evals@wustl.edu)

Please Note: In order to protect student anonymity, fall and spring reports are not generated for sections with fewer than 4 respondents.

**Creation Date** Wed, May 31, 2017



## Course Administration

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)?

Options	Count	Percentage
Yes	12	100.00%
No	0	0.00%

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

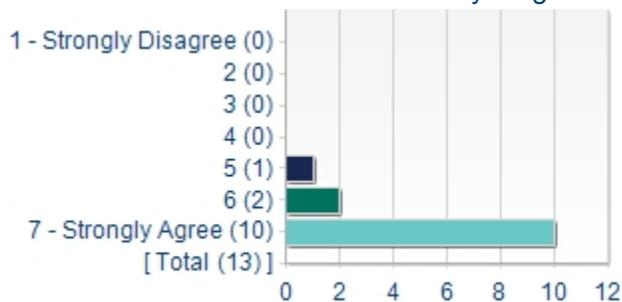
Options	Count	Percentage
Yes	12	100.00%
No	0	0.00%

## Rating Scale Responses

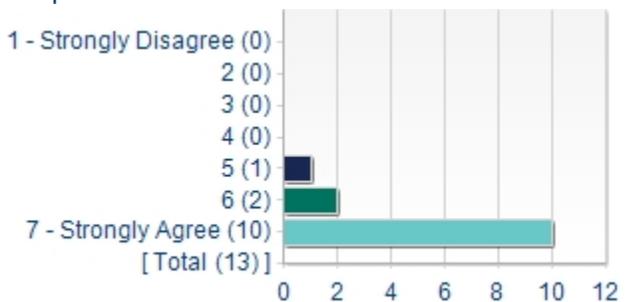
Question	Score			
	Mean	Median	Response Count	Standard Deviation
In retrospect, the syllabus was an accurate reflection of how the course was actually taught.	6.69	7.00	13	0.63
The course matched the course catalog description.	6.69	7.00	13	0.63

## Rating Scale Responses - Breakdown by Frequency

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

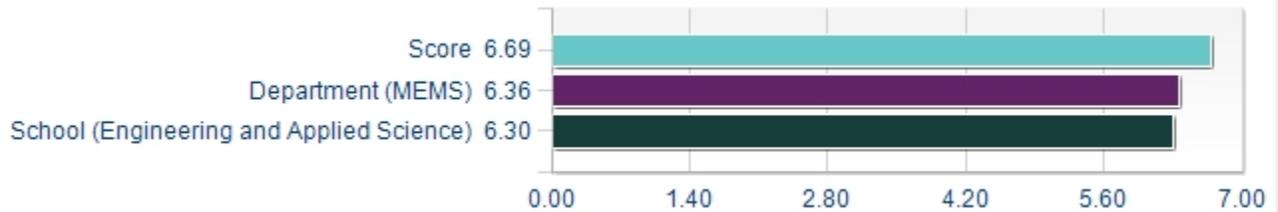


2. The course matched the course catalog description.

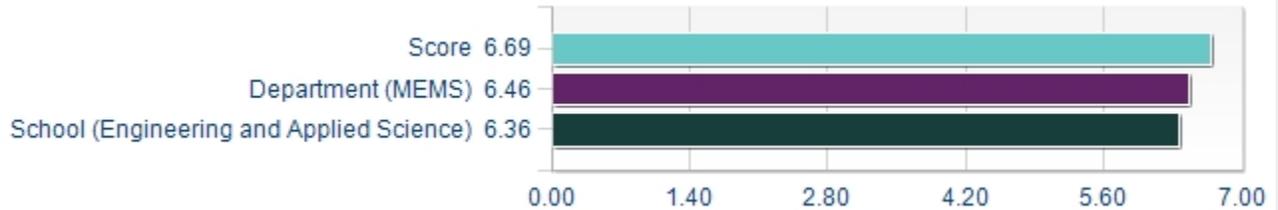


## Rating Scale Responses - Comparison Detail

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



2. The course matched the course catalog description.

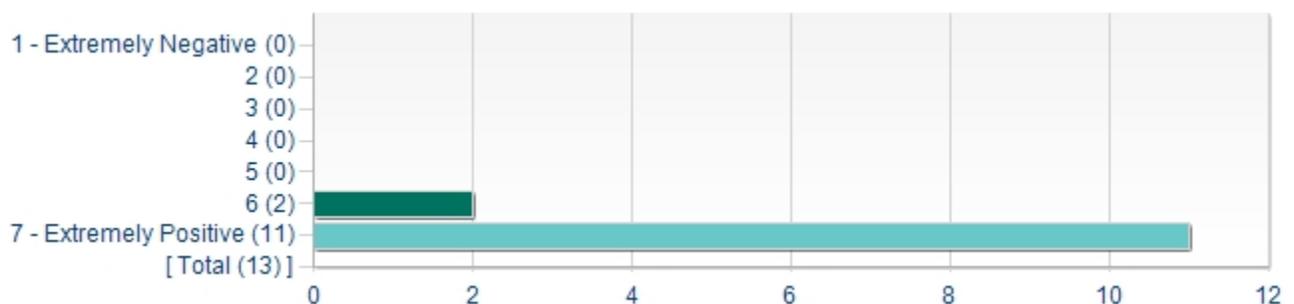


## Learning Environment

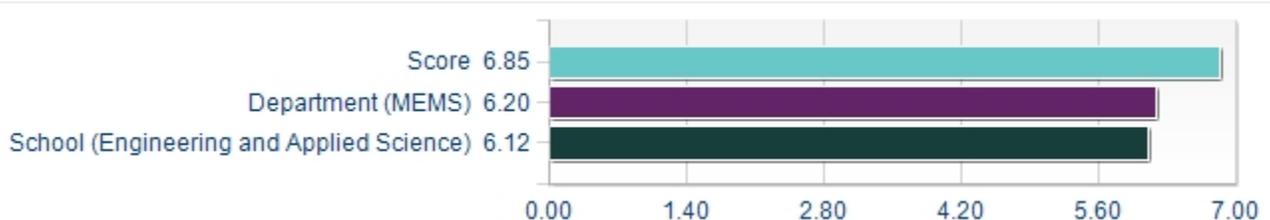
Please rate how well the instructor promoted an inclusive learning environment with regard to the diversity of student personal backgrounds and identities.

Question	Score			
	Mean	Median	Response Count	Standard Deviation
Please rate how well <b>Michael Wendl</b> promoted an inclusive learning environment with regard to the diversity of student personal backgrounds and identities.	6.85	7.00	13	0.38

## Learning Environment - Breakdown by Frequency



## Learning Environment - Comparison Detail

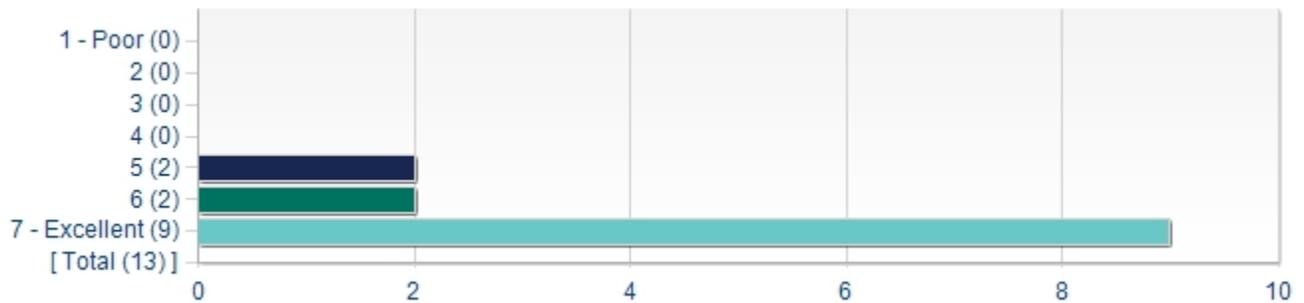


## Instructor Evaluation

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

Question	Score			
	Mean	Median	Response Count	Standard Deviation
Overall rating for teaching quality of Michael Wendl.	6.54	7.00	13	0.78

### Teaching Quality - Breakdown by Frequency



### Teaching Quality - Comparison Detail

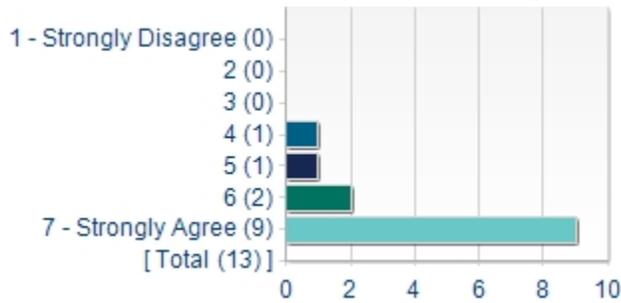


### Rating Scale Responses for Michael Wendl

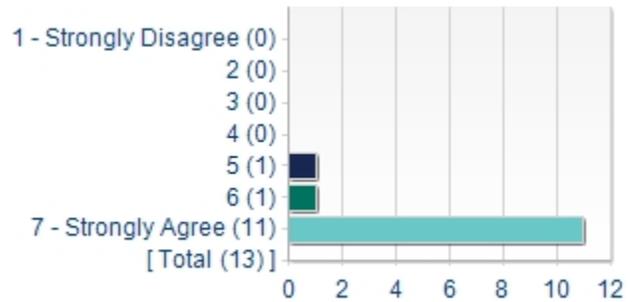
Question	Score			
	Mean	Median	Response Count	Standard Deviation
The instructor made the course interesting.	6.46	7.00	13	0.97
The instructor was enthusiastic about the course.	6.77	7.00	13	0.60
The material was covered at a reasonable pace.	6.77	7.00	13	0.44
The instructor was available to answer questions (through office hours, email, etc.).	6.77	7.00	13	0.44
The instructor was well-organized and prepared for class.	6.69	7.00	13	0.48
The instructor explained the course material so that you could understand it.	6.69	7.00	13	0.85

## Rating Scale Responses for Michael Wendl - Breakdown by Frequency

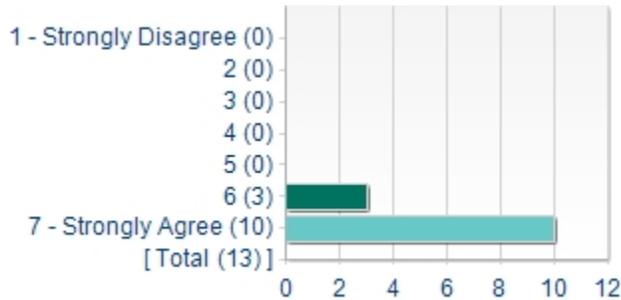
1. The instructor made the course interesting.



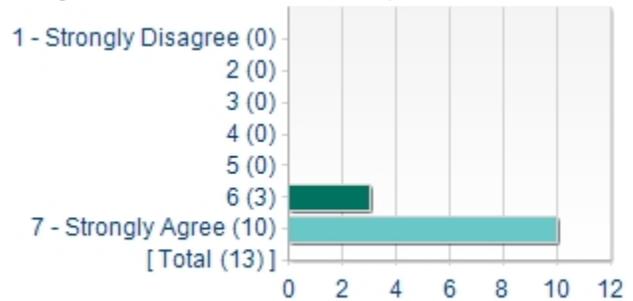
2. The instructor was enthusiastic about the course.



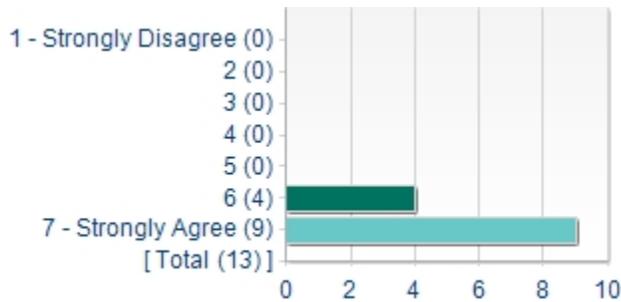
3. The material was covered at a reasonable pace.



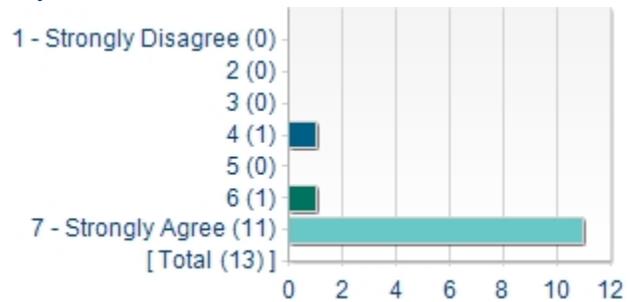
4. The instructor was available to answer questions (through office hours, email, etc.).



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

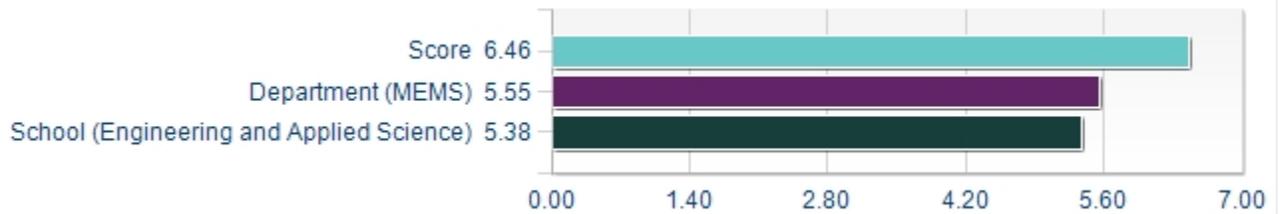


6. The instructor explained the course material so that you could understand it.



## Rating Scale Responses for Michael Wendl - Comparison Detail

1. The instructor made the course interesting.



2. The instructor was enthusiastic about the course.



3. The material was covered at a reasonable pace.



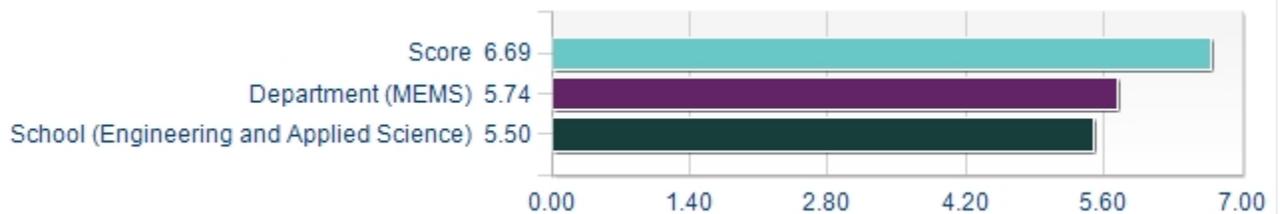
4. The instructor was available to answer questions (through office hours, email, etc.).



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



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

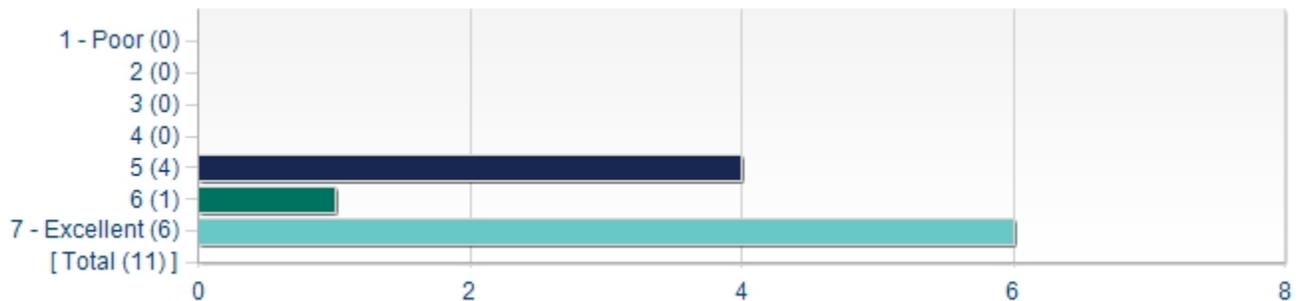


## Course Materials and Assignments

### Overall rating of course content.

Question	Score			
	Mean	Median	Response Count	Standard Deviation
Overall rating of course content.	6.18	7.00	11	0.98

### Overall Rating - Breakdown by Frequency



### Overall Rating - Comparison Detail

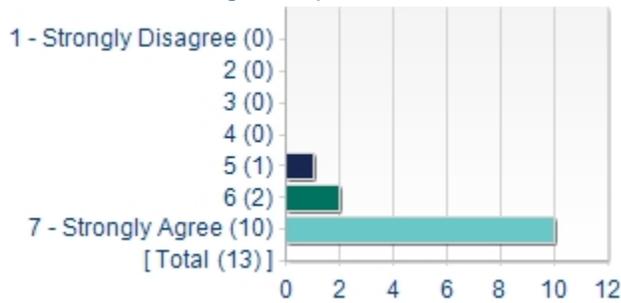


### Rating Scale Responses

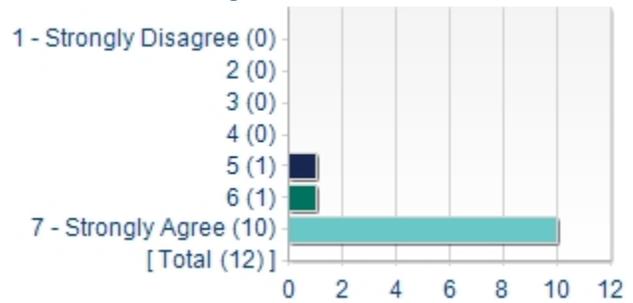
Question	Score			
	Mean	Median	Response Count	Standard Deviation
Textbooks/readings complemented the lectures.	6.69	7.00	13	0.63
Textbooks/readings were useful.	6.75	7.00	12	0.62
Assigned homeworks were helpful and relevant to the course.	6.46	7.00	13	0.66
There was reasonable time to complete assignments.	6.85	7.00	13	0.38
Assignments were returned within a reasonable period of time.	6.73	7.00	11	0.47
Comments on graded work were helpful.	6.70	7.00	10	0.48
Labs were an effective supplement to the course.	6.80	7.00	5	0.45
The course material drew upon real world applications.	6.10	7.00	10	1.45

## Rating Scale Responses - Breakdown by Frequency

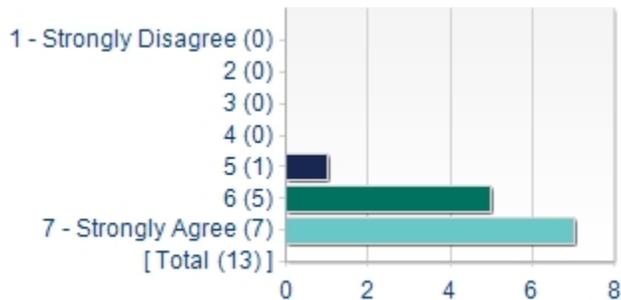
1. Textbooks/readings complemented the lectures.



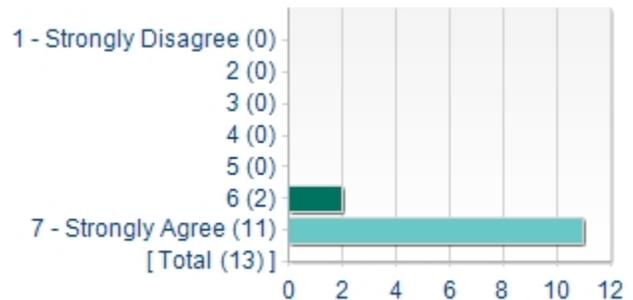
2. Textbooks/readings were useful.



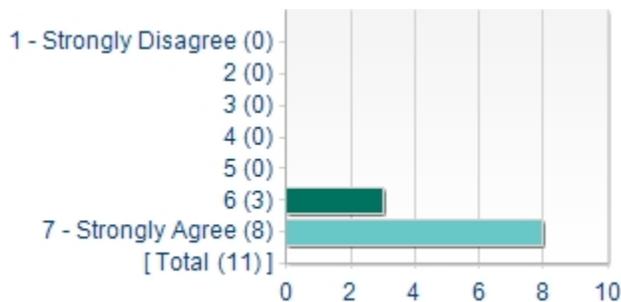
3. Assigned homeworks were helpful and relevant to the course.



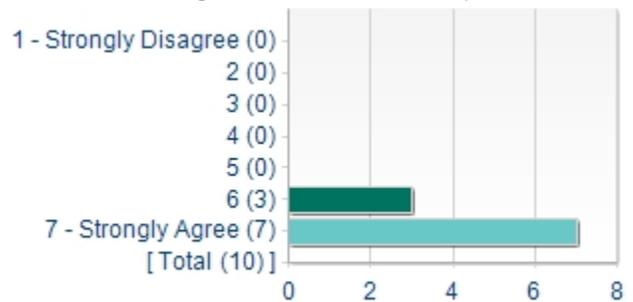
4. There was reasonable time to complete assignments.



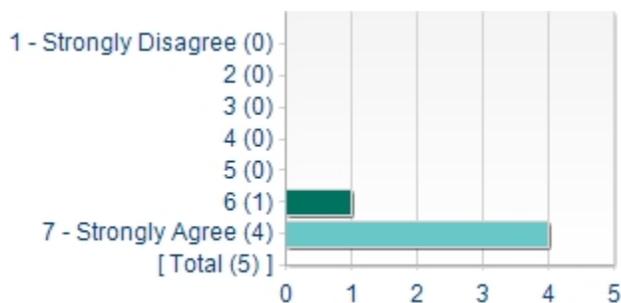
5. Assignments were returned within a reasonable period of time.



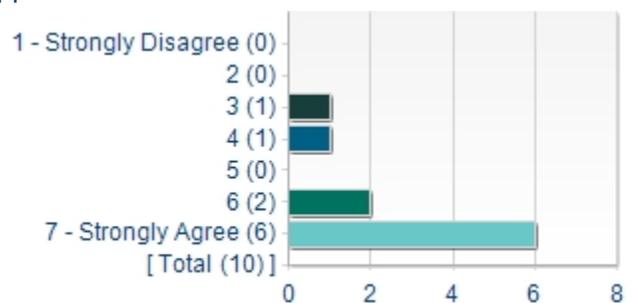
6. Comments on graded work were helpful.



7. Labs were an effective supplement to the course.

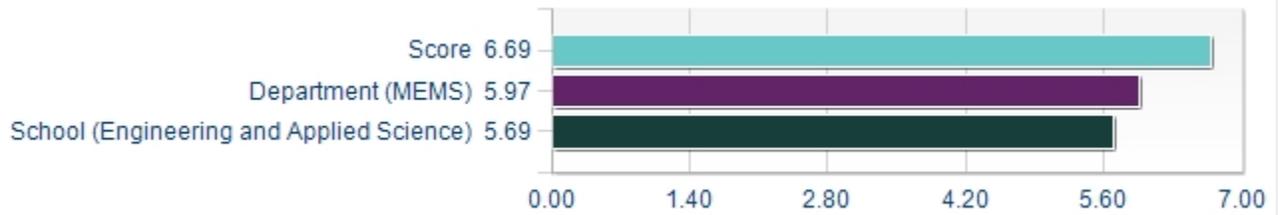


8. The course material drew upon real world applications.

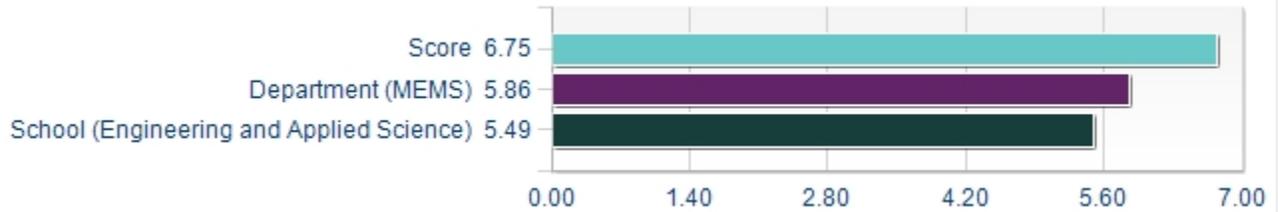


## Rating Scale Responses - Comparison Detail

1. Textbooks/readings complemented the lectures.



2. Textbooks/readings were useful.



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



4. There was reasonable time to complete assignments.



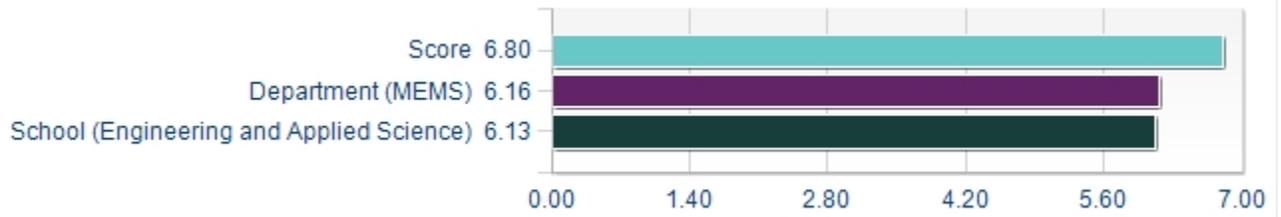
5. Assignments were returned within a reasonable period of time.



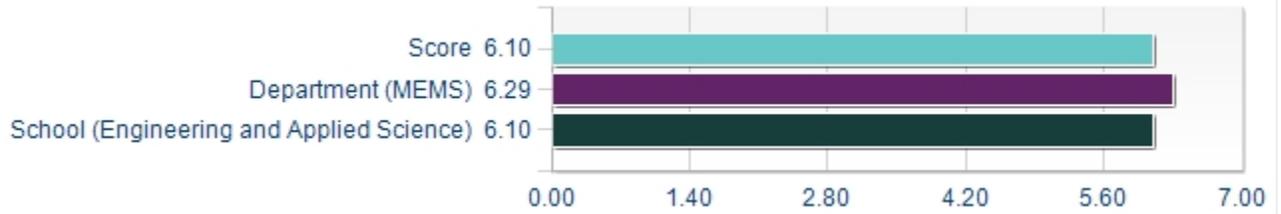
6. Comments on graded work were helpful.



7. Labs were an effective supplement to the course.



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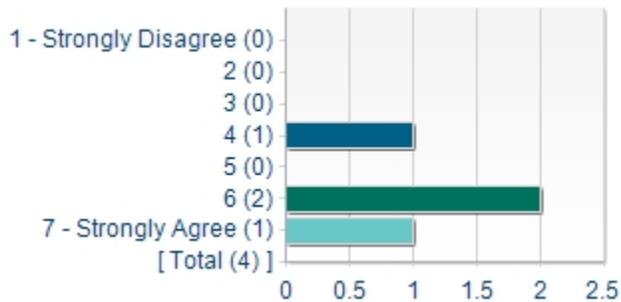
# TA and Recitation

## Rating Scale Responses

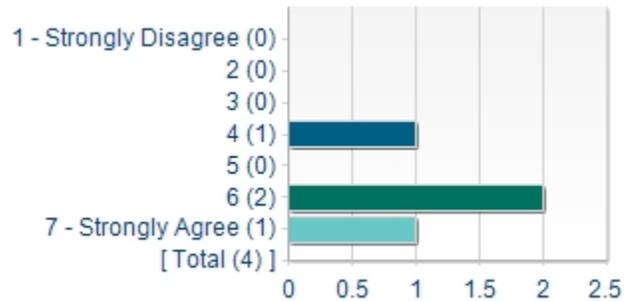
Question	Score			
	Mean	Median	Response Count	Standard Deviation
The TA was effective.	5.75	6.00	4	1.26
The TA was available and responsive to questions.	5.75	6.00	4	1.26
Recitation section served to enhance your understanding of the course material.	5.75	6.00	4	1.26

## Rating Scale Responses - Breakdown by Frequency

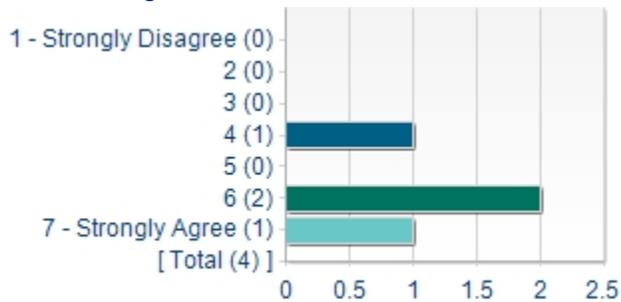
1. The TA was effective.



2. The TA was available and responsive to questions.

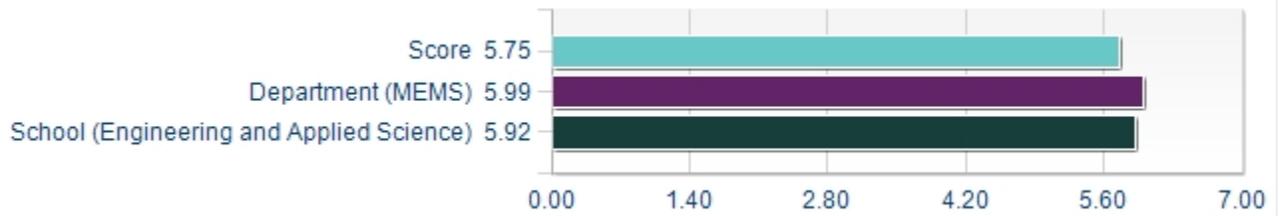


3. Recitation section served to enhance your understanding of the course material.

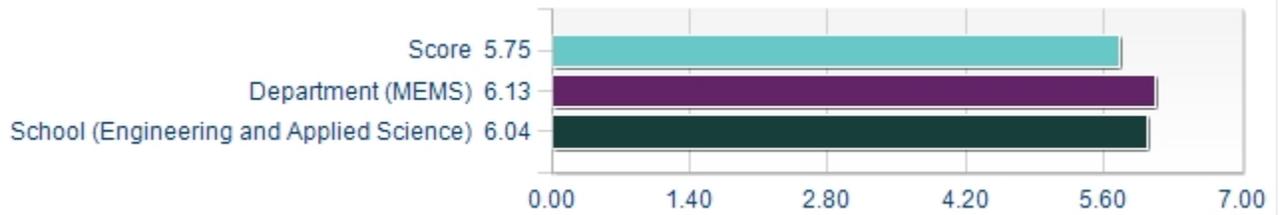


## Rating Scale Responses - Comparison Detail

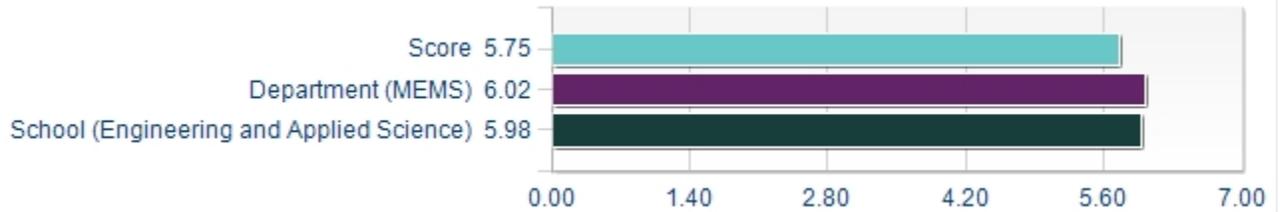
1. The TA was effective.



2. The TA 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 TA.**

### Comments

Never met them but they did a good job grading.

## Exams and Grade

### Expected grade for this course.

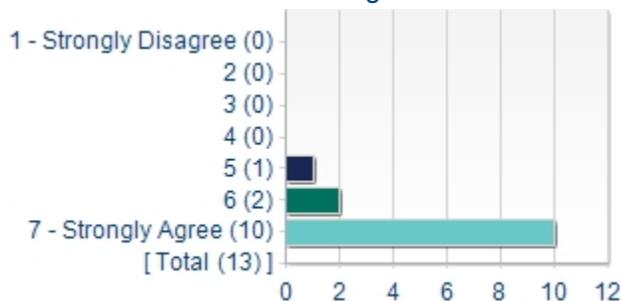
Options	Count	Percentage
A	10	90.91%
B	0	0.00%
C	1	9.09%
D	0	0.00%
F	0	0.00%
P	0	0.00%

### Rating Scale Responses

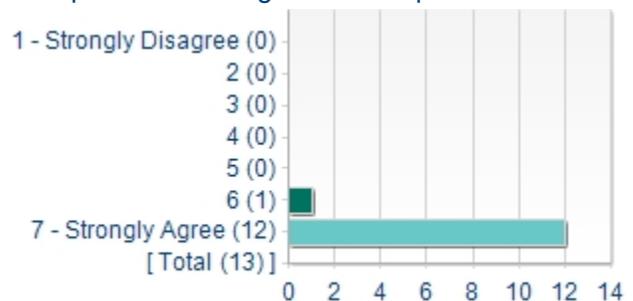
Question	Score			
	Mean	Median	Response Count	Standard Deviation
Exams reflected material taught.	6.69	7.00	13	0.63
Adequate time was given to complete exams.	6.92	7.00	13	0.28
Your grades to this point accurately reflect your understanding of the material.	6.69	7.00	13	0.48
The grading system was consistent and equitable.	6.85	7.00	13	0.38

### Rating Scale Responses - Breakdown by Frequency

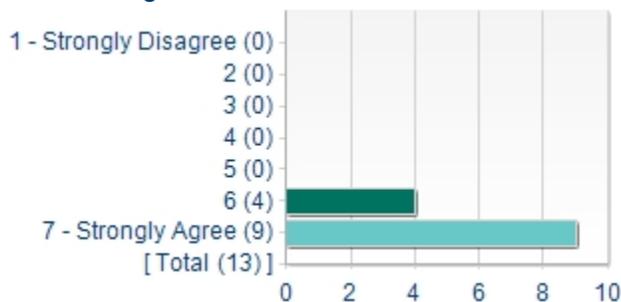
1. Exams reflected material taught.



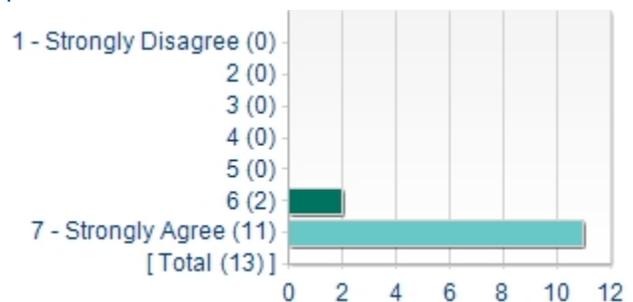
2. Adequate time was given to complete exams.



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

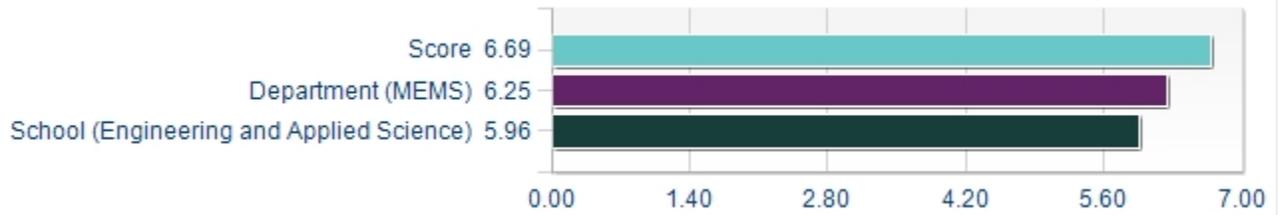


4. The grading system was consistent and equitable.



## Rating Scale Responses - Comparison Detail

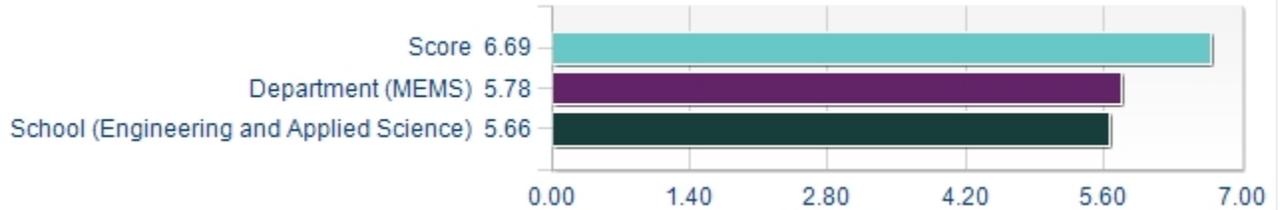
### 1. Exams reflected material taught.



### 2. Adequate time was given to complete exams.



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

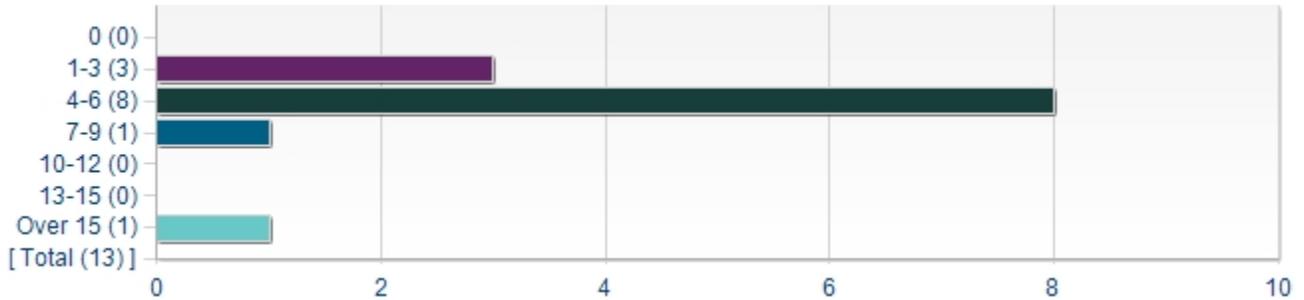


### 4. The grading system was consistent and equitable.

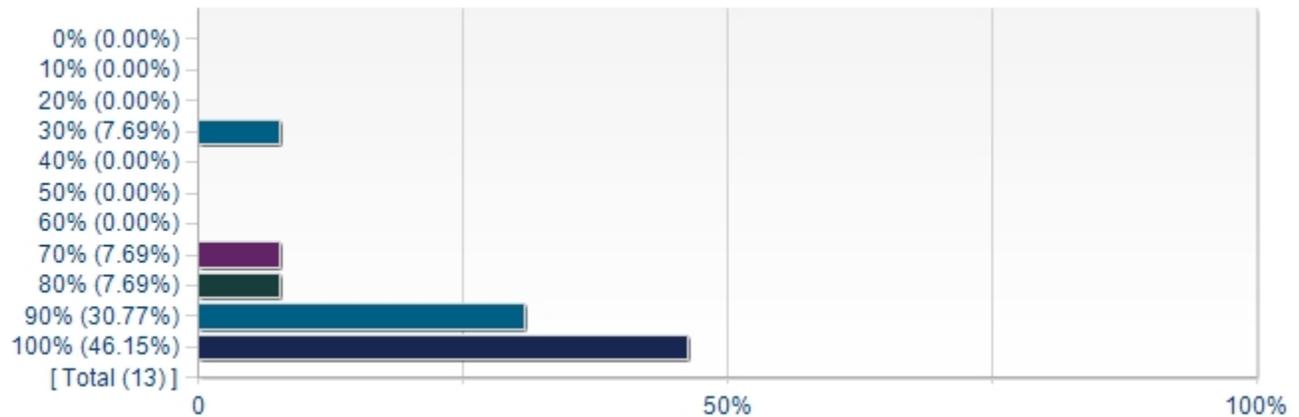


## Overall

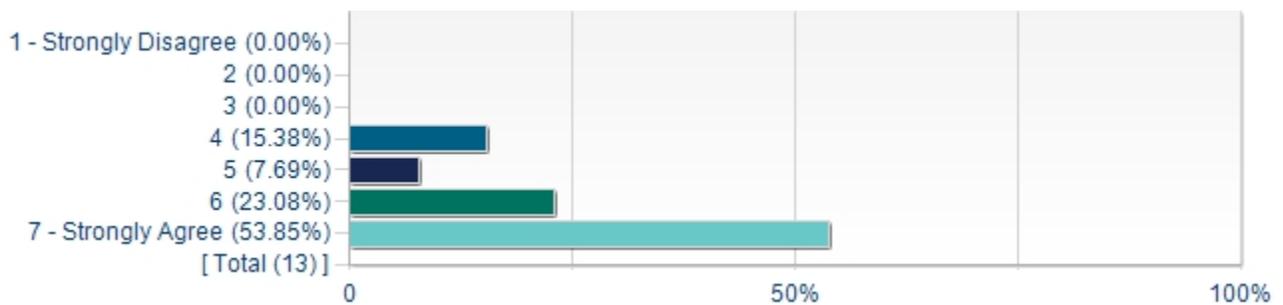
### About how many hours per week did you spend on this course outside of class?



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



### Would you recommend this course to others?



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

#### Comments

Too tired (late class)

Travel for work.

I loved it. Perfect. Made me miss having more classes like that. I understood everything.

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## Comments

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

#### Comments

This course explores some problems that are of greater mathematical complexity that one usually covers in an undergrad or even most grad courses.

Professor makes the course clear

Thorough explanation of the techniques used.

Dr. Wendl is an excellent instructor. Homework and exams were not tricky.

The relaxed environment and the focus on learning and understanding the derivation of equations. Sometimes it felt like I was watching a movie, on the edge of my seat waiting to see what trick we would use to solve the problem at hand. I always left class feeling amped.

The style. It was perfect.

Course textbook/notes were exceptional. Could easily answer almost any question about material by reading through notes.

### How could this course improve?

#### Comments

I think it's great.

Better real-world application. I understand the course is more theoretical, but gaining an understanding of how programs like ANSYS utilize the fundamental physics would be helpful.

It is good.

You did great. I feel that its kinda hard to improve upon perfection. Its crazy when as student asks this but I'd like more homework or possibly showing examples or code for this problems

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

#### Comments

He is very enthusiastic and knowledgeable. He shows both a passion for the subject matter and the patience to spend time explaining it to students who need to cover concepts more than once.

Strong logic on teaching

His interest in the material showed during lectures, and he gave clear explanations.

Easy to follow, homework and exams are straightforward.

One of the best professors I've ever had. Incredible the way he makes the material easy to digest. We were doing proofs that I never in a million years thought I would be able to comprehend. Furthermore, his ability to relate things to real world applications is awesome. I've never found myself being so excited to learn about heat transfer through plates and bearings.

Very Approachable and likable and Knowledgeable . Everything i'd hope for in a professor.

Easy to follow lectures. Followed and expanded on notes.

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

### Comments

I think he's great.

Probably not wear crocs...

He is all right.

Nothing.

Just stay the way you are and being awesome

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

### Comments

The material is challenging, but the expectations are reasonable. It's a Gem.

Differential equations used to solve basic heat transfer problems.

If you pay attention in class, complete the homework, then exams should be straightforward. Instructor does not trick anyone.

You have to take this course. If you're in grad school and don't take this course, you are missing out.

Very worthwhile course that will help you understand the black magic that is convection and conduction better.

Engineer's math course.

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

### Comments

I have not.

No.

No.

No.

## Any additional comments?

### Comments

Great course.

This is the best class in WashU

Thank you for a wonderful semester. I wish I had taken more of your courses.